



Owner's Representative

for Design-Build Construction
Project for New Water Treatment
Plant and Related Improvements

RFQ No. 2022-034 | June 24, 2022



Hazen

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Cover Letter



Hazen

June 24, 2022

Ms. Yolaina Ruiz
Buyer, Purchasing Department
City of Delray Beach
100 N.W. 1st Avenue
Delray Beach, FL 33444

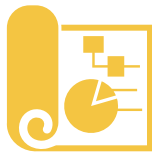
**Re: RFQ 2022-034 - Owner's Representative for Design-Build Construction Project
for New Water Treatment Plant and Related Improvements**

Dear Selection Committee Members:

The City of Delray Beach is embarking on a critical 14-mgd nanofiltration water treatment plant to remove future potential emerging contaminants as well as to immediately reduce organics to minimize potential disinfection byproduct production. To deliver this project, the City has decided to use a progressive design-build (PDB) project delivery model. While this decision is the right project delivery model to use in these times of price uncertainty and supply issues, the City must properly navigate the risks and challenges to successfully construct this PDB project and select an experienced, knowledgeable partner to assist them. The main risks and challenges include: limited staffing resources, avoidance of pitfalls associated with design-build delivery, and delivering a water plant to meet the City's demands and operational needs.

We believe that Hazen and Sawyer (Hazen) is the right team to help the City mitigate these risks and deliver the nanofiltration water treatment project on time, on budget, fulfilling current and future water treatment requirements.

Our team's attributes that will ensure project success include:



National and Local Design-Build Expertise: With over 20 years of design-build project experience dedicated 100% to water and wastewater infrastructure, Hazen will partner with the City to successfully navigate the challenges associated with design-build—from procurement of the design-build firm through contract negotiations, contract management, startup and commissioning, and contract closeout. This will ensure that the City gets the best value for its expenditures and mitigates risks.



Unmatched Knowledge of Water Supply and Treatment in South Florida: The Hazen team has designed, conceptualized, and/or improved operational performance for over 15 membrane plants in South Florida. From our extensive experience, we understand the pitfalls that may occur in the design of nanofiltration plants and will bring these lessons learned to your project. Our team consists of **local Biscayne Aquifer membrane experts with unmatched planning, design, operation, and troubleshooting/optimization experience** but with the keystone issue: water supply planning. Hazen's experts have extensive experience in South Florida source water, hydrogeology and water supply permitting. This experience will provide the project team lessons learned and innovative ideas resulting in cost-savings solutions. Further, we are technological innovators—Hazen designed centerport vessels for the Town of Jupiter's nanofiltration plant, a more complex design that saves 30% in electrical feed costs. Hazen is a leader in applied research and will infuse those resources into this project.



Largest Water Resources Design Center in South Florida: Hazen offers the City the largest and most proven water resource design center in South Florida—ready to be deployed to meet the City's needs, and to oversee and review the design-builder's design and construction. The City can count on the Hazen team's technical expertise and staff resources to provide support to the City in all phases described in the request for qualifications and serve as an extension of staff on an as-needed basis to ensure project success.

Our team is led by **Janeen Wietgreffe, PE, PMP**, our proposed Project Director, who has worked on over a dozen nanofiltration plants in South Florida over the last 21 years, performing as process mechanical engineer, project manager, and/or project director. Most similarly, Ms. Wietgreffe served as Project Manager for the 14.5-mgd Jupiter Nanofiltration plant, including overseeing the development of the design criteria in the conceptual design phase to establish the necessary equipment for the nanofiltration facility. She has also been involved with multiple nanofiltration facilities from conceptual evaluation and design through operational and resilience assistance. Ms. Wietgreffe's membrane plant experience, as well as Owner's Representative experience with Fort Lauderdale (Fiveash WTP), will ensure that the nanofiltration plant is optimally designed and constructed.

Our proposed Project Manager, **Orlando Castro, PE, DBIA**, has served as the Owner's Representative for many clients in South Florida, such as Miami-Dade Water and Sewer Department (MDWASD) and the City of Fort Lauderdale's Sewer Consent Order program. He has held leadership positions on multiple award-winning Design-Build projects including the City of Fort Lauderdale Emergency Pipeline Project, MDWASD Government Cut Design-Build project, and the Miami-Dade County Bear Cut and West Bridges Emergency Water Main Relocation project. As an experienced DBIA-certified Professional, he will guide the City in design-build best practices to ensure a successful project.

Mr. Castro will be supported by Deputy Project Manager, **Monica Pazahanick, PE**, who possesses extensive experience in project management and effective communication skills to properly coordinate critical aspects of design and construction between the Owner, Design-Builder, and within interdisciplinary leads. She has successfully led projects from scope to start-up in the water and wastewater industry for Southeast Florida clients including Palm Beach County, and the Cities of Boca Raton, Stuart, Sunrise, and Pompano Beach.

We appreciate your invitation to submit our qualifications demonstrating our team's experience and our approach to assist the City in the successful implementation of this project and bring the City's vision into reality. Together, the Hazen-City of Delray partnership will deliver a successful Nanofiltration Water Treatment Plant. As a Hazen Vice President, I am authorized to make representations of behalf of the firm. If you have any questions or require additional information, I can be reached at jwietgreffe@hazenandsawyer.com or (954) 987-0066. We look forward to the opportunity to further present our qualifications.

We acknowledge receipt of Addendum No. 1.

Sincerely,

Hazen and Sawyer

Janeen Wietgreffe, PE, PMP
Vice President and Proposed Project Director

Contracting Agent and Primary Contact:

Hazen and Sawyer / Janeen Wietgreffe, PE, PMP
4000 Hollywood Boulevard, Suite 750 North
Hollywood, FL 33021
(954) 987-0066 (office)
jwietgreffe@hazenandsawyer.com

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Hazen



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Requirements of the Consultant

Below are responses to the requested information from pages 13 and 14 of the RFQ:

Requirement	Tab/Page No.
Section One	
1. Identify the legal entity that would enter into the contract with the City and include location of company headquarters, local office location, type of business (sole proprietorship, partnership, corporation), state of incorporation or organization and Federal Employer Identification Number, and the name and title of the person authorized to enter into an agreement.	See Tab 4, pages 9, 11
2. Provide an organizational chart identifying members of the team, including sub-consultants who would be assigned to this project. The chart should clearly delineate roles and responsibilities of the various team members.	See Tab 6, pages 38-41
3. For proposed sub-consultants, please provide the name of each firm, the office location, contact name and telephone number, and the services to be provided.	See Tab 5, page 17
4. State any conflicts of interest your firm or any key individual may have with the overall references for your team.	None of our team members (and the firm) has any conflicts of interest.
5. List any contracts performed in the past ten (10) years, by your proposed team, for projects that were similar in size or type to this project.	See Tab 3 (pages 6-8) and Tab 7 (pages 43-50)
Section Two	
1. Indicate the number of professional staff available and qualified to perform services. Particular emphasis should be placed on the project manager, his/her length of time with the firm, and their relevant experience for the same or similar projects. The continuity of the selected Proposer's key personnel throughout this project is vital to the success of this project. To that end, the individual(s) proposed for this project must be able to guarantee their commitment to this project. Provide background information for all team members (1a-1e).	See Tab 5 (page 37). Resumes are included for key personnel on pages 19-24.
1f. Project approach 1g. Present and anticipated workload and ability to handle additional projects.	See Tab 6 (pages 29-37)
2. Experience with similar projects is the highest priority. For each project that your project team has completed, provide a brief project summary, identify the owner and include the names and phone numbers of a contract person. In addition, indicate which member(s) of your proposed project team had key roles in the projects, and what those roles were. We're particularly interested in any previous experience as a vertical construction engineer with Progressive Design-Build projects.	See Tab 3 (pages 6-8) and Tab 7 (pages 43-50).
3. A significant part of the selected Owner's Representative role assisting the City with overall project management, construction engineering inspection service, and the most appropriate project approach. The Proposer's Statement of Proposals should address how they intend to fulfill this role of communicating with the public as well as elected officials.	See Tab 6 (pages 29-37)
4. Describe the general tasks required to fulfill project requirements and your firm's approach to completing those tasks.	See Tab 6 (pages 32-36)

1021-514

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Minimum Qualifications



Hazen

Section No. 3

Minimum Qualifications

Hazen possesses the necessary global owner's representative and alternative delivery project experience to perform the proposed scope of work.

Hazen meets the minimum qualifications specified in the RFQ, as noted in this section.

Professional License

Hazen is licensed by the Florida Department of Business and Professional Regulation as an engineering firm. A copy of the firm's registry license is provided below along with the license of our qualifier.


Florida dbpr Department of Business & Professional Regulation

[HOME](#)
[CONTACT US](#)
[MY ACCOUNT](#)

ONLINE SERVICES

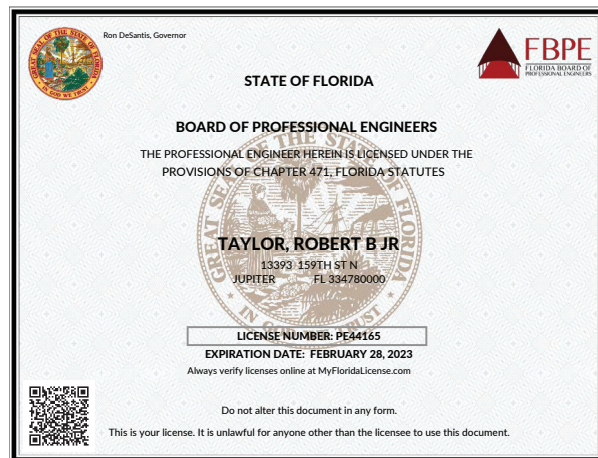
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Licensee

Name:	HAZEN AND SAWYER, P.C.	License Number:	2771
Rank:	Registry	License Expiration Date:	
Primary Status:	Current	Original License Date:	11/08/1978

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
44165	Current, Active	TAYLOR, ROBERT B JR	Registry	04/27/2017	Professional Engineer	02/28/2023



State of Florida
Department of State


I certify from the records of this office that HAZEN AND SAWYER, P.C. is a New York corporation authorized to transact business in the State of Florida, qualified on October 18, 1978.

The document number of this corporation is 841657.

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 January 12, 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 Twelfth day of January, 2022



Randy R. [Signature]
Secretary of State

Tracking Number: 4982614325CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>


Owners' Representative Services Experience/Client References

Design-build delivery is not new to Hazen. We have been involved extensively in design-build, as both Owner's Representative and as the Engineer-of-Record on design-build teams. We have been providing owner's representative services for over 70 years. Over the past 10 years, we have successfully completed an array of alternative delivery projects, solely focused on water and wastewater utilities (and the unique challenges they bring), throughout the country for a total construction value of over \$8.5 billion. More specifically, Hazen delivered \$4 billion of this \$8.5 billion total as an Owner's Representative to public utilities for design-build delivery services similar to those requested under this RFQ.

Hazen's experience providing owner's representative services for similar completed or ongoing construction projects are highlighted in the five client references provided below. We encourage the City to contact each reference, as we are proud of our proven success at meeting the goals and objectives of our clients.

Reference 1:

Consent Order Sewer Design and Implementation Program, City of Fort Lauderdale, FL


Client Business and Name: City of Fort Lauderdale	Change Orders or Contract Modifications: None	
Contract Beginning, Ending Amounts: \$17.2 million (estimated fee authorized to date); \$26 million (total fee anticipated)	Project Start Date: December 2017 Project End Date: Ongoing	

Brief Description of the Project's Scope of Work:

Hazen serves as Program Manager and Owner's Representative for a \$248 million program that includes eight separate Design-Build projects that must be completed under an aggressive timeline to meet Consent Order deadlines. Hazen was responsible for the evaluation of appropriate design delivery method for multiple projects, including development of a project evaluation matrix to help guide selection. Hazen also provided management and oversight of multiple concurrent projects under the Design-Build delivery method.

Hazen also helped to navigate the Design-Build procurement process, select, and evaluate CO projects best suited for Design-Build delivery, developed design and performance criteria necessary to issue the Design-Build RFPs/RFQs, and provided extensive support during the contractor selection process and design and construction phases following contract award. To date, four of the eight Design-Build projects advanced as part of the overall CO Program are completed, one is in construction, and the three remaining Design-Build projects are in development of their design criteria package.

Reference 2:**Fiveash Water Treatment Plant Owner's Representative, City of Fort Lauderdale, FL**


Client Business and Name: City of Fort Lauderdale	Change Orders or Contract Modifications: None	
Contract Beginning, Ending Amounts: \$12 million (est. fee for overall contract) Task Order 1: \$249,600 (fee)	Project Start Date: July 2021 (contract award) TO 1: May 2022 Project End Date: Ongoing	

Brief Description of the Project's Scope of Work:

As Owner's Representative, Hazen is assisting the City in the evaluation and selection of the best treatment alternative (nanofiltration) for construction of a new water treatment plant to replace the existing Fiveash Water Treatment Plant (WTP) through the warranty period, including decommissioning. Hazen will serve as an extension of City staff and act as the City's representative and liaison between the entity selected to build the WTP, the Design Team, Construction Contractor, regulatory agencies, and other stakeholders throughout the project. Hazen will coordinate all project matters during the planning, design, construction, commissioning, switchover, decommissioning, and close-out phases. Hazen will also provide design, cost, and schedule reviews.

Work is under way on a task order for oversight of the City's selected P3 contractor during the investigation, study, testing, and commencement phase of the Prospect wellfield and as-needed technical services (Phase 1 - Program/Project Development).


Reference 3:**Miramar East Water Treatment Plant Improvements, City of Miramar, FL**

Client Business and Name: City of Miramar	Change Orders or Contract Modifications: None	
Contract Beginning, Ending Amounts: \$78,800 (fee) \$33.4 million (est. construction)	Project Start Date: 06/2015 Project End Date: 09/2019	

Brief Description of the Project's Scope of Work:

Hazen served as Design Criteria Professional for this project that consisted of upgrades to the existing 4-mgd lime softening water treatment plant to a 6-mgd membrane softening treatment plant. Hazen developed the design criteria used by the City to procure a design-builder to deliver this project via a progressive design-build project delivery method. Hazen and the design-build team identified long lead permitting durations (notably the deep injection well) and developed creative prioritization of design elements to help expedite the permitting.

Reference 4:**Miami-Dade Water and Sewer Department
Ocean Outfall Legislation (OOL) Program**

Client Business and Name: Miami-Dade Water and Sewer Department	Change Orders or Contract Modifications: None	
Contract Beginning, Ending Amounts: \$30 million (est. fee)	Project Start Date: 2014 Project End Date: Ongoing (optional 6-year extension to 2026)	

Brief Description of the Project's Scope of Work:

Hazen shares responsibility (as a lead subconsultant) for wastewater system master planning, as well as management of the overall delivery of a \$2.55 billion master planning program encompassing design, procurement, construction, and commissioning of major capital projects. The OOL Program is driven by a regulatory mandate from the Florida Legislature to dramatically reduce wastewater discharge to the Atlantic Ocean by 2025. As Owner's Representative, Hazen evaluated and recommended project delivery method for various projects.

Reference 5:**Sustainable Water Initiative for Tomorrow (SWIFT)
Phase 3 Demonstration Facility (Design-Build)
and SWIFT Full-Scale Implementation Program
Management, VA**

Client Business and Name: Hampton Roads Sanitation District (HRSD), VA	Change Orders or Contract Modifications: None	
Contract Beginning, Ending Amounts: Demonstration Facility: \$26.3 million; Program Management Services: \$2B (est. construction)	Project Start Date: 12/2016-05/2018 (design through construction for the 1-mgd Demonstration Facility); 08/2018-08/2032 (overall program) Project End Date: Overall program ongoing	Client Contact Name, Phone Number, Email Address: Lauren Zuravnsky, PE / Chief of Design and Construction / (757) 355-5009 / lzuravnsky@hrsd.com Bruce Husselbee, PE / Director of Engineering / (757) 460-7012 / bhusselbee@hrsd.com

Brief Description of the Project's Scope of Work:

During the first phase of the project, Hazen partnered with a Design-Build contractor and HRSD to demonstrate that advanced water treatment will produce finished water compatible for managed aquifer recharge. The 1-mgd Demonstration Facility for HRSD defined design parameters and regulatory requirements for future full-scale sustainable water facility designs.

For Full-Scale Implementation Program, the Program Management Team (Hazen in partnership with another firm) is providing program management and engineering services necessary to design, construct, and commission SWIFT advanced water treatment infrastructure and associated wastewater treatment plant upgrades by 2030. This innovative program will total over \$2 billion in construction across five different wastewater treatment plants and a variety of conveyance and injection well projects to recharge the Potomac Aquifer System and reduce saltwater intrusion. The team is also providing Owner's Representative services for oversight of design-build projects, and design management and CM for Design-Bid-Build projects.

Hazen is working with the team to manage all delivery aspects of the SWIFT program, including developing conceptual designs and bridging documents for Design-Build procurement. Most recently, the team completed bridging documents for the James River TP SWIFT and Advanced Nutrient Reduction Improvements (ANRI) and the Nansemond TP ANRI, which have been awarded at construction costs of \$469 million and \$262 million, respectively.

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Proposer's Information



Section No. 4

Proposer's Information

As requested in the RFQ, below are Hazen and Sawyer's responses to the information requested.

i. Legal contracting name including any dba: Hazen and Sawyer, P.C. dba Hazen and Sawyer

ii. State of organization or incorporation:

Hazen and Sawyer (Hazen) is incorporated in the State of New York.

iii. Ownership structure of Proposer's company: Hazen is an employee-owned corporation.

iv. Federal Identification Number: 13-2904652

v. Contact information for Proposer's Corporate headquarters:

498 Seventh Avenue, 11th Floor

New York, NY 10018

(212) 539-7000

vi. Contact information for Proposer's office location(s) relevant to this solicitation:

4000 Hollywood Boulevard, Suite 750 North, Hollywood, FL 33021

(954) 987-0066 / Janeen Wietgreffe, PE, PMP, Vice President

2101 NW Corporate Boulevard, Suite 301, Boca Raton, FL 33431

(561) 997-8070 / Monica Pazahanick, PE, Senior Associate

999 Ponce de Leon Boulevard, Suite 1150, Coral Gables, FL 33134

(305) 443-4001 / Orlando Castro, PE, DBIA, Associate Vice President

vii. Years in business: 71 years

viii. List of officers, owners and/or partners, or managers of the firm. Include names, addresses, email addresses, and phone numbers:

The table below includes contact information for select officers of the firm: Hazen's President/CEO, Southeast Region members of the Board of Directors, and our proposed Project Director and Vice President, Janeen Wietgreffe, PE, PMP.

Name	Address	Email	Phone Number
Ronald L. Taylor, PE President and CEO	4011 WestChase Boulevard, Suite 500, Raleigh, NC 27607	rltaylor@hazenandsawyer.com	(919) 833-7152
Robert B. Taylor, Jr. Senior Vice President	4000 Hollywood Blvd., Suite 750 North Hollywood, FL 33021	rbtaylor@hazenandsawyer.com	(954) 987-0066
Patricia Carney, PE, DBIA Vice President	4000 Hollywood Blvd., Suite 750 North Hollywood, FL 33021	pcarney@hazenandsawyer.com	(954) 987-0066
Janeen Wietgreffe, PE, PMP Vice President	4000 Hollywood Blvd., Suite 750 North Hollywood, FL 33021	jwietgreffe@hazenandsawyer.com	(954) 987-0066

ix. Any additional organizational information that Proposer wishes to supply to augment its proposal:

Hazen and Sawyer's (Hazen) roots go back over 100 years to the accomplishments of Allen Hazen, one of the pioneers of modern water supply engineering and co-developer of the Hazen-Williams formula for fluid flow in pipes in 1903. Hazen was established by Hazen's son Richard and Alfred W. Sawyer in 1951. Hazen is a nationally and internationally recognized environmental engineering consulting firm that specializes in all things related to water, wastewater, reclaimed water, and stormwater. We have provided complete in-house engineering services in Florida since 1968, offering comprehensive capabilities in the areas of planning, design, permitting, finance, facility optimization, asset management, owner's representative services, construction management, startup, and operations of water, wastewater, stormwater, and reclaimed water treatment; and storage and conveyance systems.

x. Contact information for Proposer's Primary representative during this RFQ process:

Janeen Wietgreffe, PE, PMP, Vice President
 (954) 987-0066 (office) | (954) 609-0779 (mobile) | jwietgreffe@hazenandsawyer.com
 4000 Hollywood Boulevard, Suite 750 North, Hollywood, FL 33021

xi. Contact information for Proposer's Secondary representative during this RFQ process:

Orlando Castro, PE, DBIA, Associate Vice President
 (305) 443-4001 (office) | (305) 978-0142 (mobile) | ocastro@hazenandsawyer.com
 999 Ponce de Leon Boulevard, Suite 1150, Coral Gables, FL 33134

xii. Briefly summarize any current or pending litigation in which Proposer is a part to:

The table below provides a summary of Hazen's current and pending litigation.

Case Name	Description	Date of Loss	Date of Action/ Date Closed	ID Number/Court
Scott Baptiste and Elizabeth Baptiste against The City of New York and A.J. Pegno Construction Corp./Tully Construction Company Inc. a joint venture against Hazen and Sawyer, P.C., Malcolm Pirnie, Inc. Individually and Hazen and Sawyer, P.C./Malcolm Pirnie, Inc., a joint venture	Hazen and Sawyer is a third-party defendant brought into this claim by the Pegno/Tully joint venture. Pegno/Tully alleges that Hazen's inspection of the jobsite was negligent and contributed to a Scott Baptiste's alleged injury.	11/28/08	12/13/13 Open	Index No.: 11654/09 Supreme Court of the State of New York, County of Kings
Marc Fodera against The City of New York, The New York City Department of Environmental Protection, The New York City Department of Sanitation and Northeast Remsco Construction, Inc. against Hazen & Sawyer, PC, Bidwell Environmental, LLC and Barbaro Electric Co. Inc.	Mr. Fodera, an employee of Barbaro Electric, alleges he tipped and fell on a drainpipe at the Gowanus Canal site.	10/3/14	7/26/17 Open	Index No. 511003/2015 Supreme Court of the State of New York, County of Kings
Michael Patrick Corbett, Jr. and Lisa Corbett against Skanska USA, Inc., Hazen & Sawyer, AECOM USA, Inc., and ARCADIS U.S., Inc.	Michael Corbett an employee of the City of New York alleges he contracted a bronchial infection while working at the Croton Filtration Plant from 2012 through February 2016.	2/28/16	2/15/19	Index No: 21995/2019E Supreme Court of the State of New York, County of Bronx
Gregory Bowman against City of New York, Skanska-Picone, J.V. and Hazen and Sawyer.	Gregory Bowman an employee of Ward Electric alleges he was struck by a cabinet unit at the 26th Ward WWTP.	3/22/19	11/13/19	Index No: 159692/2019 Supreme Court of the State of New York, County of NY

xiii. Provide details of any ownership changes to Proposer's organization in the past three years or changes anticipated within six months of the Due Date and Time (e.g., mergers, acquisitions, changes in executive leadership): Ronald Taylor, PE, was appointed President and CEO by Hazen's Board of Directors, effective January 1, 2022.

xiv. Provide the names of the persons who are principals of the company:

Hazen and Sawyer, an international firm, consists of multiple firm principals. Ronald Taylor is President. Our proposed Principal for this contract is Janeen Wietgreffe, PE, PMP, Vice President. Officers for Hazen's Southeast Region are as follows: Senior Vice President: Robert Taylor, Jr., PE; Vice Presidents: Patricia Carney, PE; Patrick Davis, PE; Janeen Wietgreffe, PE, PMP; Shajan Joykutti, PE; Albert Muniz, PE; Jayson Page, PE; Fernando Chiriboga; Andre Dieffenthaler, PE; and Damann Anderson, PE. These individuals are authorized to enter into an agreement.

xv. Provide information on any lawsuits pending or any judgments, in the last five (5) years, which are concerned directly with the firm, the staff, or any part of the Proposer's organization, which are proposed to perform on this contract:

In the last 10 years, the Southeast Region of Hazen has been responsible for approximately \$2 billion worth of public works construction. Our litigation record (or lack of) is excellent. We also want to emphasize that Hazen is not wholly or partly self-insured. Hence, it is our insurer that bears the risk and not the client. As requested, the table below provides a summary of lawsuits pending or judgments, in the last five (5) years, which are concerned directly with the firm, the staff, or any part of Hazen's organization, which are proposed to perform on this contract.

	Description	Date of Action	Date Closed	Outcome	ID Number	Court
Professional Liability Claims						
Cecil Dwayne Whitson, Doing Business as Stately Scapes v. Hazen and Sawyer, P.C.	Contractor alleged negligence in connection with the construction of a retaining wall.	6/29/17	2/05/18	Settled	Civil Action No. 3:17-CV-988	United States District Court for the Middle District of Tennessee
'The City of High Point, North Carolina v. Suez Treatment Solutions, Inc., Fidelity and Deposit Company of Maryland and CPPE Carbon Process & Plant Engineering, S.A. and Suez Treatment Solutions, Inc., v. Hazen and Sawyer, P.C.	Suez, a contractor for the City of High Point, brought a third party suit against Hazen and Sawyer in connection with H&S' engineering design services for the City.	7/24/2019	5/18/22	Settled	Civil Action No. 1:19-cv-540	United States District Court for the Middle District of North Carolina
Close Construction, LLC v. City of Riviera Beach Utility Special District, C Solutions, Mark Drummond v. Hazen and Sawyer	C Solutions, engineer for the City of Riviera Beach, seeks indemnity from Hazen as its subcontractor.	11/9/2020	9/20/21	Dismissed	Case No. 16 CA 013117 MB-AF	In the Circuit Court of the Fifteenth Judicial Circuit in and for Palm Beach County, Florida

5

Experience and
Project Team



Hazen

Section No. 5

Experience and Project Team

We have assembled a team of design-build specialists and water treatment experts ideally suited to assist the City during the implementation of its Nanofiltration Water Treatment Plant.

Team Structure

Our team has been streamlined to provide efficient and effective service. **Janeen Wietgreffe, PE, PMP**, will serve as Project Director, providing overall project oversight and ensuring that all required resources are available to the team. She has worked on over a dozen nanofiltration plants in South Florida over the last 21 years, performing as process mechanical engineer, project manager, and/or project director. Ms. Wietgreffe will be supported by Project Manager and Deputy Project Manager, **Orlando Castro, PE, DBIA**, and **Monica Pazahanick, PE**, respectively. Mr. Castro's entire 15-year career has been with Hazen, and he serves as Regional Leader for Hazen's Collaborative Project Delivery Service Group. Ms. Pazahanick's 15 years of experience spans water and wastewater treatment design, permitting, and construction. She will serve as the local liaison with Delray Beach to efficiently and effectively communicate critical aspects of design and construction with the entire team.

We understand that continuity of our proposed key personnel is vital to the success of this project.

We commit that these individuals will be involved throughout the project.

Our carefully selected team consists of staff members with **specific knowledge and expertise in alternative delivery methods, water supply and treatment, and nanofiltration water treatment plants.**

Why Hazen?

 **NATIONAL
AND LOCAL**
Design-Build
Experience
100% Water and
wastewater

 **UNMATCHED
KNOWLEDGE OF**
Water Supply and
Treatment
IN SOUTH FLORIDA
50+ Projects

Hazen has been delivering Design-Build projects for over 20 years



NATIONAL DESIGN-BUILD EXPERTISE

Exclusively for W/WW Infrastructure

\$8.5 Billion Alternative Delivery over Past 10 Years

25 Owner's Rep/
Program Manager

10 Design-Build
Awards

More Than **100** Design-Build/
CMAR Projects Across **17** States

Our Florida staff has designed
and/or overseen construction of

more than \$2 Billion

in water-related projects in Florida
over the past 10 years.

From coast-to-coast, Hazen has been involved in large-scale, innovative, and award-winning Design-Build programs for major utilities such as Miami-Dade Water and Sewer Department, City of Fort Lauderdale, Los Angeles Department of Water and Power, Charlotte Water, Hampton Roads Sanitation District, and Nassau County Department of Public Works. The following is a list of projects, in addition to those presented in Sections 3 and 7, that demonstrate our team's experience in the Owner's Representative and Design-Build fields.

Our team's nationwide experience as Owner's Representative and Bridging Consultant on Design-Build projects ensures that we will serve in your best interest.

Project	Role	Delivery Method	Project Value
Design Criteria Professional (DCP) for the Salitre WWTP Corporacion Autonoma Regional (Bogota, Colombia) Bogota, Colombia	Owner's Representative/ Bridging Consultant	Design-Build	\$496 million
DCP for Consorcio Bessac-Sade-Solentache Bachy WWTP Empresas Municipales de Cali, Cali, Colombia	Owner's Representative/ Bridging Consultant	Design-Build	\$390 million
Water Works Park WTP , DWSA, Detroit, MI	Owner's Rep	Design-Build	\$285 million
Chemical System Improvements at Springwells WTP DWSA, Detroit, MI	Owner's Rep	Design-Build	\$14 million
Flocculator Replacement at WTPs , DWSA, Detroit, MI	Owner's Rep	Design-Build	\$9 million
NW 13th Street FM Replacement Phase 1, 2 and 3 DCP City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$3 million
North and South Redundant Emergency Force Main D-B City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$59.5 million
Pump Station B-4 Force Main Design Build Project City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$4.8 million
NE 38th Street 42-inch Force Main DCP City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$22.5 million
NE 25th Avenue 24-inch Force Main DCP City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$5 million
Las Olas Boulevard Force Main DCP City of Fort Lauderdale, FL	Owner's Representative/ Bridging Consultant	Design-Build	\$2.3 million
Microtunnel Design Criteria Package EMAPAG-EP, Guayaquil, Ecuador	Bridging Consultant	Design-Build	\$45 million
Cryogenic Oxygen Generation System Upgrade DCP City of Hollywood, FL	Bridging Consultant	Design-Build	\$10.4 million
DCP for Intracoastal Waterway Pipeline Crossing by HDD City of Hollywood, FL	Bridging Consultant	Design-Build	\$4.9 million
HRWRF Nutrient Removal , City of Hopewell, VA	Owner's Rep	Design-Build	\$70 million
Storage Warehouse Design Criteria Package Town of Jupiter, FL	Bridging Consultant	Design-Build	\$575,000
Chorrea and Arrajan Sewer System DCP Unidad Cordinadora de la Bahia de Panama, La Chorrera, Panama	Owner's Representative/ Bridging Consultant	Design-Build	\$1.044 million
Design Criteria Package for Pipeline Crossing by HDD City of Margate, FL	Bridging Consultant	Design-Build	\$290,000

Project	Role	Delivery Method	Project Value
South Miami Heights Water Treatment Plant Miami-Dade Water and Sewer Dept., Miami-Dade County, FL	Bridging Consultant (as a subconsultant)	Design-Build-Operate	\$100 million
DCP for the Expansion of the Miramar Wastewater Reclamation Facility City of Miramar, FL	Bridging Consultant	Progressive Design-Build	\$26.4 million
Foley Cellulose Effluent Disposal System Georgia Pacific, Perry, FL	Bridging Consultant	Design-Build	\$65 million
ESCO Project Rockingham County, VA	Bridging Consultant	ESCO	\$2.5 million
Sustainable Water Initiative for Tomorrow (SWIFT) Program Manager Hampton Roads Sanitation District, Virginia Beach, VA	Owner's Representative (as a subconsultant)	Design-Build and Progressive Design-Build	\$2 billion
Fort Lauderdale Fiveash Water Treatment Plant (P3) City of Fort Lauderdale, FL	Owner's Representative	Design-Build-Operate	\$0.5 billion

Unmatched Water Treatment and Supply Knowledge in South Florida

In addition to our large-scale alternative delivery specialist experience, our Florida staff has designed and/or overseen construction of over \$2.5 billion in water-related projects throughout Florida over the past ten years. Our team members include mostly long-time Florida residents, many of whom live in South Florida, offering considerable knowledge of Florida's current and historic issues related to water use permitting, water demand, and water supply to the City.

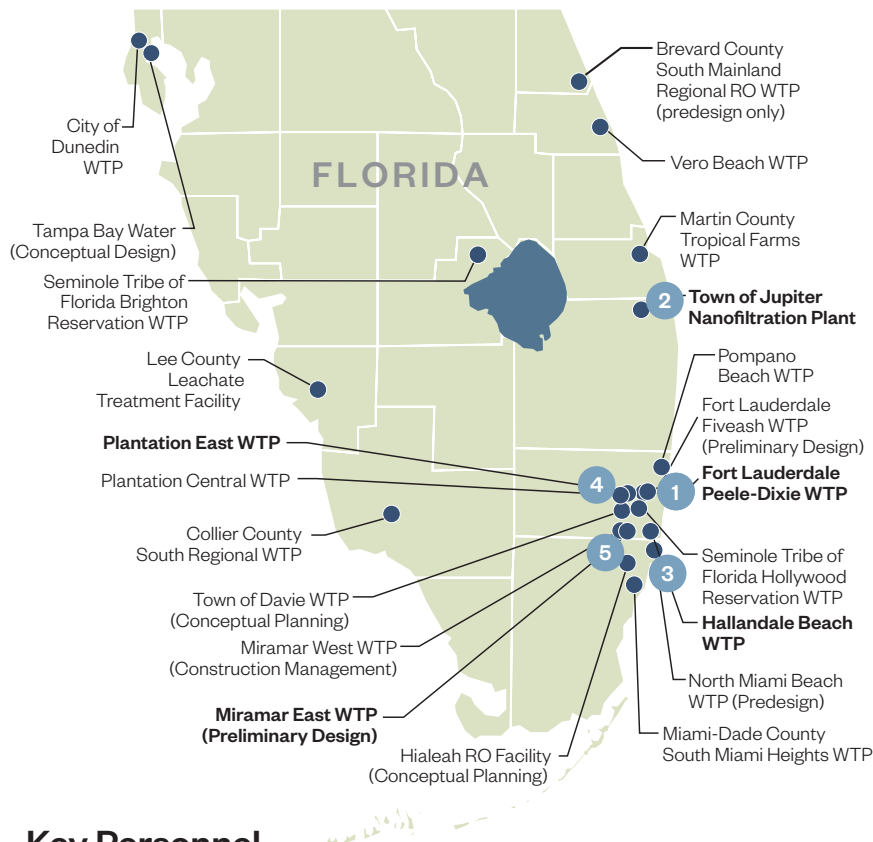
Our unparalleled experience

with local membrane plants, ensures that any potential risks are highlighted and carefully mitigated throughout oversight of the design and construction of the new nanofiltration plant.



Our team consists of membrane experts with unmatched planning, design, operation, and troubleshooting/optimization experience. Members of our team have been instrumental in the design and operations of numerous membrane-related projects.

Hazen has designed more than 15 membrane plants in South Florida.



The following projects include nanofiltration of the Biscayne Aquifer:

- 1 \$41.3 million: City of Fort Lauderdale 12-mgd Peele Dixie Membrane Plant and Wellfield:** Testing, predesign, and design of 12-mgd finished water membrane plant; 15-mgd raw water wellfield and pipeline; and 5.8-mgd deep injection well for concentrate disposal.
- 2 \$37 million: Town of Jupiter Nanofiltration Facility:** Design, permitting and pilot testing oversight services for a new 14.5-mgd Nanofiltration Facility (expandable to 17 mgd). Innovative center feed design provides annual 30% savings in electrical costs.
- 3 \$20 million: City of Hallandale Beach 6-mgd Membrane Softening Facility:** Design, bidding, permitting, construction management services, as well as oversight, pilot testing, start-up coordination, and first-year operational assistance.
- 4 \$4 million: City of Plantation East Water Treatment Plant:** 12-mgd Membrane Softening Plant Expansion.
- 5 \$10.5 million (est.): City of Miramar East 6-mgd Membrane Softening Plant:** As part of a conventional Design-Bid-Build project, Hazen provided preliminary design for a new membrane plant.

Key Personnel

We have assembled a team led by the following key personnel who possess the experience and characteristics to exceed the City's expectations. Resumes, licenses, and certifications are included at the end of this section.



Janeen Wietgreffe, PE, PMP - Project Director

- Has worked on over 12 nanofiltration and membrane plants in South Florida, four of which she performed process mechanical design services
- Specifically knowledgeable of the complexities of the high organic, color and iron of the Biscayne Aquifer supply and related pretreatment requirements
- As an AWWA-Certified Risk and Resilience Specialist, she will ensure the most critical resilience considerations are included in the design of the new plant.



Orlando Castro, PE, DBIA - Project Manager

- Recipient of five DBIA Design-Build Project Awards
- Delivered over \$400M in water infrastructure projects via alternative delivery
- Past Chair, DBIA South Florida Chapter Steering Committee
- Proven track record of proficient DB procurement and negotiation expertise
- Served as Owner's Representative and Design Manager on numerous DB projects



Monica Pazahanick, PE | Deputy Project Manager

- Understands the issues facing utilities such as Delray Beach and has worked in the Palm Beach County area for the last 12 years
- Water treatment plant design expertise includes using advanced membrane technology
- Project management experience including leading and effectively communicating with Owners, Contractors, and multi-disciplinary design teams



George Brown, PE | Pre-Construction Phase Support Lead

- 27 years of experience in the management and design of water treatment, water supply, pipelines, and pump stations projects
- Led design of \$100M of infrastructure projects for the City of Fort Lauderdale and master planned over \$600M in water improvements



Joseph Franko, PE | Construction Phase Support Lead

- Extensive experience providing design and resident engineer/construction management services on small- and large-scale water and wastewater projects including general oversight of all construction activities





Patricia Carney, PE, DBIA | DB Project Advisor

- Award-winning DBIA professional with more than 31 years of experience
- Led DB delivery of \$70M project for Miami-Dade Water and Sewer Department, shepherding the project through design, permitting, construction, and startup in 30 months

Subconsultants

We have included two subconsultants teaming partners to provide public outreach and document controls services. We have a history of working with both subconsultants, and each firm brings specialized qualifications and experience to provide quality services to the City of Delray Beach.

Team Member/Role	Qualifications
 Create • Communicate • Connect Role: Public Outreach 2101 Vista Parkway West Palm Beach, FL 33411 (561) 440-4446 Valerie Cuidad-Real	Established in 2006, The Valerin Group, Inc. (Valerin) is a full-service communications firm headquartered in Tampa with branch offices in West Palm Beach, Fort Lauderdale, and Orlando. Valerin consists of seasoned professionals with extensive experience providing public involvement, community outreach, creative, and translation services. Valerin's experience includes leading the public engagement and community outreach efforts for over 20 projects in Palm Beach County. The firm's experience includes prime contracts with FDOT, City of West Palm Beach, and other clients for a variety of planning, design, and construction projects.
 CORPORATE PROJECT SERVICES, INC. Role: Document Controls 2101 Vista Parkway, Suite 221 West Palm Beach, FL 33411 (954) 701-2454 / Esther Lambert	Since 2006, Corporate Project Services, Inc. (CPSI) has been providing project management services for capital construction projects and programs in South Florida. CPSI is certified as a small, minority, and/or woman-owned business with multiple agencies including Palm Beach and Broward Counties and the State of Florida. CPSI has successfully worked with multi-disciplinary teams for over 10 years, and has extensive project controls and construction management experience on various projects for clients such as Palm Beach County Water Utilities Department, Broward County Water and Wastewater Services, and Miami-Dade Water and Sewer Department.

Awards and Accomplishments

Hazen has received numerous awards for completed projects, which is an indication of the quality of our work. To provide the City with an indication of the quality of our work, selected awards are highlighted below, including projects for which proposed team members have been involved with.



Our Projects earn national and local recognition.

2022

ASCE-FL Florida Section Large Project of the Year

City of Fort Lauderdale Emergency Pipeline Project
Fort Lauderdale, FL

2021

ACEC-FL Grand Award; Trenchless Technology Honorable Mention

ASCE-FL Broward Branch Project of the Year

City of Fort Lauderdale Emergency
Pipeline Project, Fort Lauderdale, FL



2020

DBIA-Southeast Best Rehabilitation Project Award

Cape Fear Public Utility Authority Heat Exchanger Project -
Southside WWTP, Wilmington, NC

2018

ENR Mid-Atlantic Best Water/ Environment Project of the Year

DBIA Best Water Project

SWIFT Research Center, Hampton Roads, VA

2017

DBIA Project of the Year (W/WW) Florida Region

Intracoastal Waterway Crossings
at Las Olas Boulevard
City of Fort Lauderdale, FL



2016

ACEC - NY Engineering Excellence Award

NYCDEP Croton Water Filtration Plant
New York, NY

2015

FES Outstanding Technical Achievement

Bear Cut and West Bridges Emergency Rehabilitation
and Water Main Replacement, Miami-Dade County, FL

2014

DBIA Florida Region Honor Award

MDWASD Government Cut
Utility Relocation
Miami-Dade County, FL



DBIA Florida Region Honor Award

Bear Cut Bridge Water Main
Crossing
Miami-Dade County, FL



FICE Winner, Water/Stormwater Category

Miami-Dade Water and Sewer Department
South District WWTP High Level Disinfection Upgrade
Miami-Dade County, FL

DBIA National Award of Merit

Indiana American Water Hidden Lake Water
Treatment Facility

2008

APWA Project of the Year

City of Hallandale Beach Water
Treatment Plant Expansion



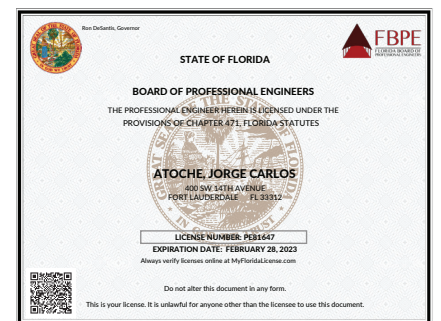
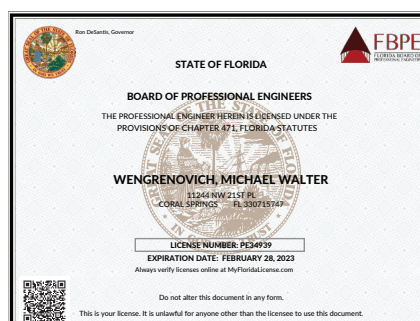
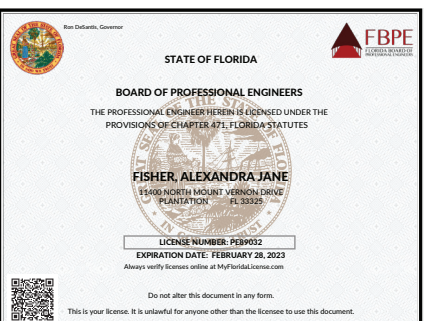
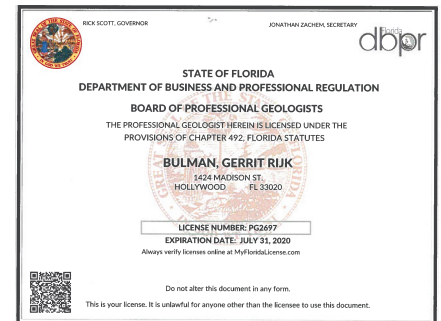
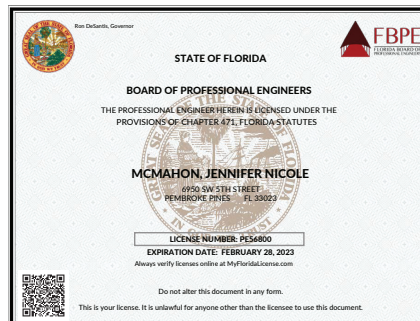
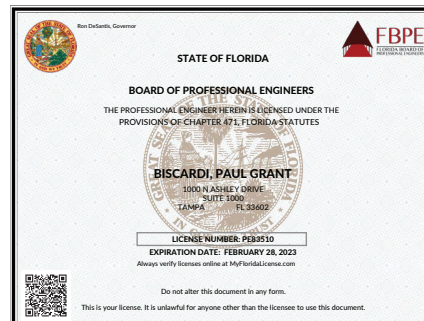
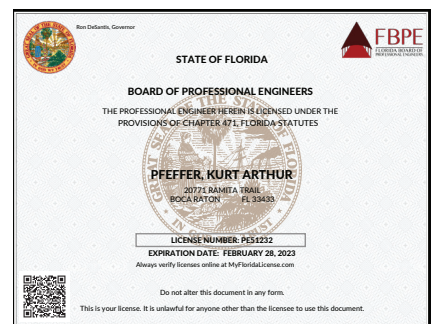
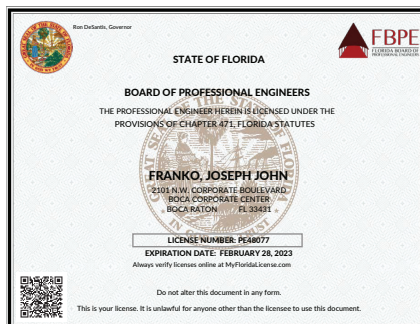
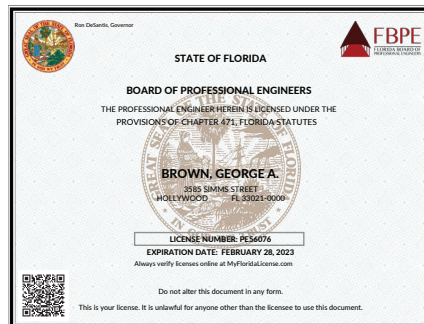
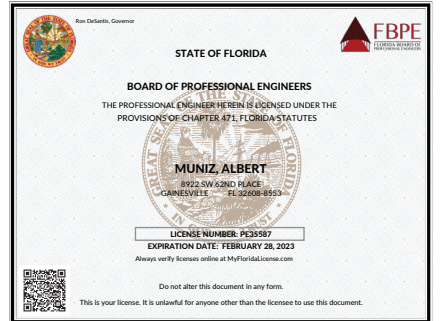
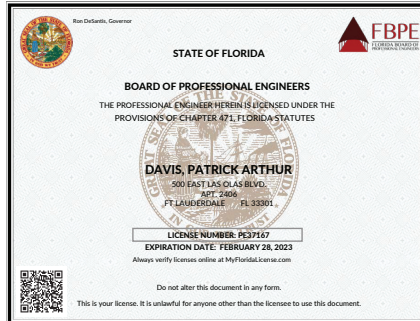
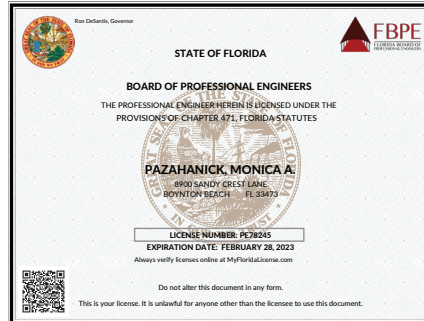
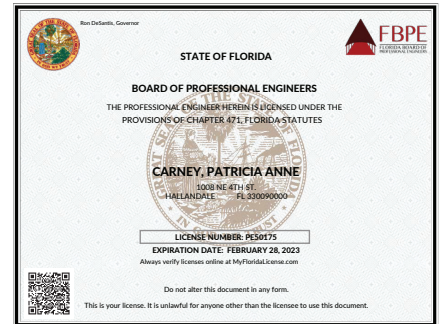
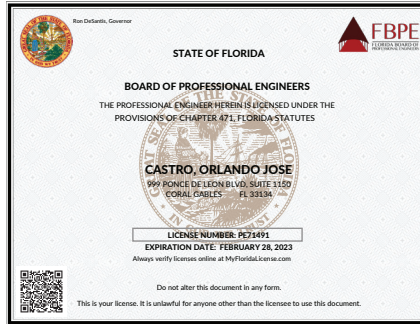
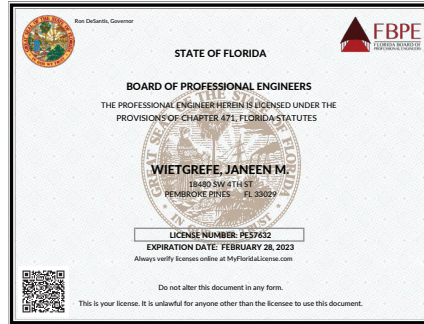
CMAA Project

Achievement Award

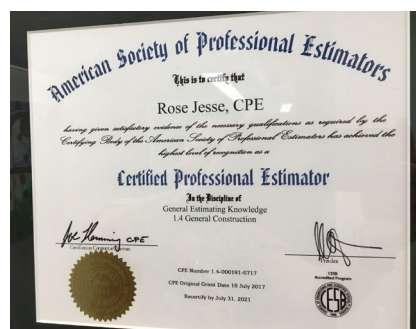
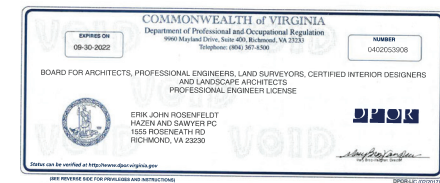
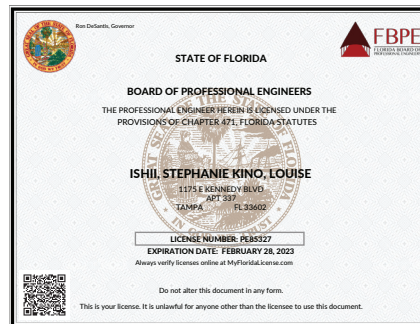
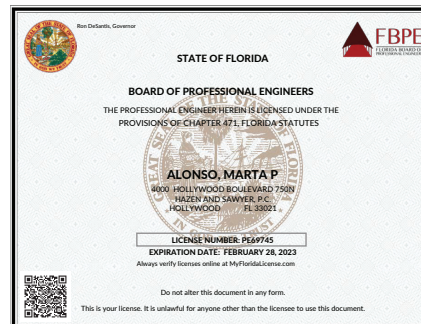
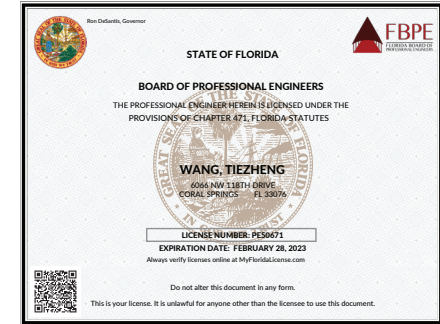
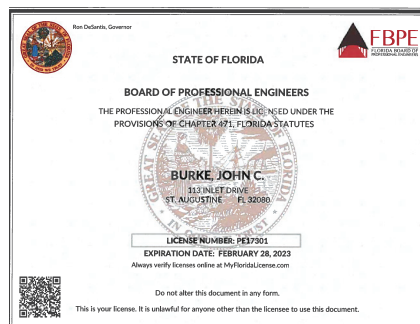
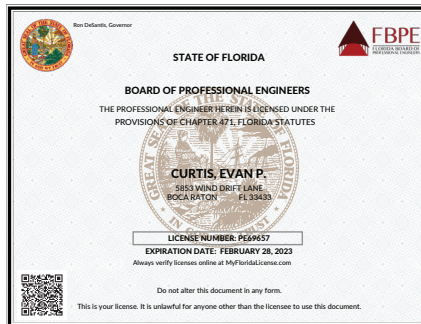
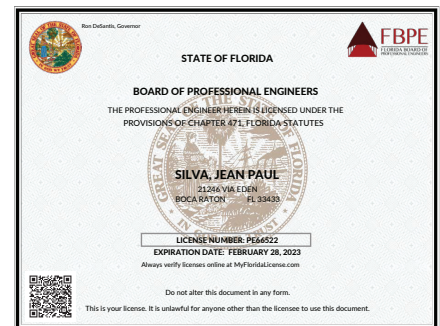
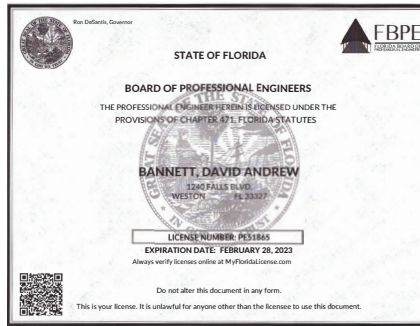
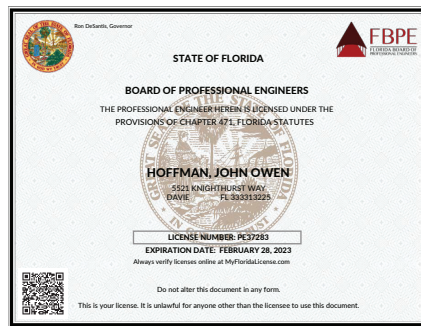
Southeast Construction Best Civil Project

Peele-Dixie Water Treatment Plant
City of Fort Lauderdale, FL

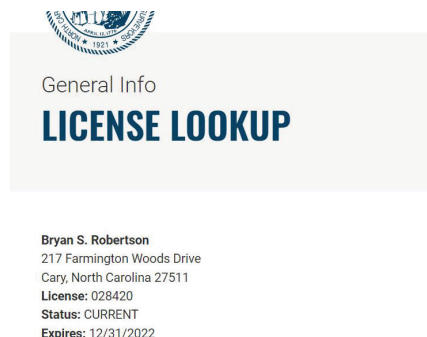
Licenses



Licenses, continued



dbpr Department of Business & Professional Regulation																											
ONLINE SERVICES	LICENSEE DETAILS																										
Apply for a License Verify a Licensee View Food & Lodging Inspections File a Complaint Continuing Education Course Search View Application Status Find Exam Information Unlicensed Activity Search A&T Delinquent Invoice & Activity List Search	<table border="1"> <thead> <tr> <th colspan="2">Licensee Information</th></tr> </thead> <tbody> <tr> <td>Name:</td><td>GIULIANO, ANGELA (Primary Name)</td></tr> <tr> <td>Main Address:</td><td>691 SE 34TH TERRACE HOMESTEAD Florida 33033</td></tr> <tr> <td>County:</td><td>DADE</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">License Information</th></tr> </thead> <tbody> <tr> <td>License Type:</td><td>Professional Geologist</td></tr> <tr> <td>Rank:</td><td>PG</td></tr> <tr> <td>License Number:</td><td>PG3063</td></tr> <tr> <td>Status:</td><td>Current/Active</td></tr> <tr> <td>Licensure Date:</td><td>12/17/2020</td></tr> <tr> <td>Expires:</td><td>07/31/2024</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Special Qualifications</th></tr> </thead> <tbody> <tr> <td>Qualification Effective</td><td></td></tr> </tbody> </table> <p>Alternate Names</p>	Licensee Information		Name:	GIULIANO, ANGELA (Primary Name)	Main Address:	691 SE 34TH TERRACE HOMESTEAD Florida 33033	County:	DADE	License Information		License Type:	Professional Geologist	Rank:	PG	License Number:	PG3063	Status:	Current/Active	Licensure Date:	12/17/2020	Expires:	07/31/2024	Special Qualifications		Qualification Effective	
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Janeen Wietgreffe, PE, PMP

Project Director

Job Classification (Title)

Vice President

Location

Hollywood, FL

Education

ME, University of North Carolina, Environmental Engineering, 1997

BS, University of Florida, Environmental Engineering, 1995

Certification/License

Professional Engineer: FL (#57632)

Project Management Plan Professional (PMP) #2752873

Areas of Expertise

- Large Project/Program Mgt.
- Membrane Treatment Process Design
- Design of Advanced Water Treatment Processes
- Planning, Design, and Construction Administration of Water and Wastewater Treatment Facilities
- Water Resource Engineering and Planning

Experience

- 28 total years
- 21 years with Hazen

Professional Activities

American Water Works Association

Southeast Desalting Association

Water Environment Federation

Ms. Wietgreffe has managed and/or participated in a variety of water resource projects including water supply planning and evaluation, water treatment design, and water distribution.

Her experience ranges from planning for future water infrastructure for clients to providing design services for water and wastewater projects; and permitting, budgeting, construction management, and operational assistance. She is also experienced with facilitating technical reviews of projects with significant stakeholder involvement.

14.5-mgd Nanofiltration Facility (NF), Town of Jupiter, FL

Served as Project Manager/Process Mechanical Engineer for process mechanical support throughout the predesign and design phases. The Town added a \$38 million NF facility to treat the surficial aquifer. The NF treatment was designed to blend with IX and RO.

City of Hallandale Beach Membrane Softening Facility, Hallandale Beach, FL

Served as Project Manager and Process Mechanical Engineer for pilot testing, design, bidding, permitting, and construction management services for a new 6-mgd nanofiltration facility to replace an equivalent volume of existing lime softening capacity at its water treatment plant. Hazen completed design, permitting, and construction oversight of the membrane facility; provided process mechanical support throughout the design, construction, and start-up phases, as well as construction management/office services.

Peele-Dixie Membrane Plant, City of Fort Lauderdale, FL

Served as Project Manager and Process Mechanical Engineer. Design and construction oversight included a \$33 million, 12-mgd membrane softening facility (for nanofiltration of the Biscayne Aquifer), two 4-MG storage tanks, related chemical storage and feed facilities, air strippers/clearwell, concentrate booster, and high-service transfer pump stations.

Plantation East Membrane Softening Facility Expansion, City of Plantation, FL

Served as Project Manager for expansion of the City's existing 6-mgd nanofiltration facility to 12 mgd. This project included the addition of three 2-mgd hybrid membrane arrays, a third membrane booster pump, and the addition of a permeated flushing system within the existing membrane building. A 12-mgd firm capacity transfer pump station and 18-mgd firm capacity high-service pump station were also constructed under this project.

Value to Delray Beach

- Experienced in overseeing both small and large programs (over \$100 million) and water treatment design through construction projects
- Has managed water projects, including local membrane plants (nanofiltration of the Biscayne Aquifer), from piloting through construction (i.e., Peele-Dixie, Hallandale Beach, and Plantation East)
- Serves as Project Manager for the Fort Lauderdale Fiveash WTP Replacement Owner's Representative project and will bring lessons learned to the City's project



Orlando Castro, PE, DBIA

Project Manager

Job Classification (Title)

Associate Vice President

Location

Coral Gables, FL

Education

ME, University of Florida,
Structural Engineering, 2006

BS, University of Florida, Civil
Engineering, 2005

Certification/License

Professional Engineer: FL
(#71491), NY, MS

DBIA Designated Design-
Build Professional™

Areas of Expertise

- Owner's Representative
- Alternative Project Delivery
- Planning, Design and Construction
- Structural Analysis and Design
- Construction Management
- Project Management

Experience

- 15 total years
- 15 years with Hazen

Professional Activities

DBIA South Florida Chapter
Steering Committee
(Past Member)

American Society of Civil
Engineers

Cuban-American Association
of Civil Engineers

Florida Water Environment
Association

Mr. Castro serves as Regional Leader for Hazen's Collaborative Project Delivery Service Group. He has been involved in a variety of projects ranging from planning, design, and construction administration of water and wastewater treatment infrastructure, and specializes in alternative project delivery methods.

His expertise includes program and construction administration as Owner's Representative, structural design, and site inspection services for new and upgraded facilities and collection/transmission systems in various forms of project delivery methods (design-build, design-bid-build, and CMAR).

NW 13th Street 24-inch Force Main Replacement Phase 1 Design Criteria Package, City of Fort Lauderdale, FL

Mr. Castro served as the Design Criteria Professional for the fast-track development of a Design Criteria Package (DCP) for the replacement of 3,000 feet of 24-inch cast iron force main. He led the team and developed the DCP within 45 days. Part of the DCP development was implementing DBIA design-build best practices and working with the client on requiring prescriptive versus performance based required in the DCP.

North and South Redundant Force Main Projects, City of Fort Lauderdale, FL

In December 2019, the City of Fort Lauderdale had numerous breaks of large diameter force mains that spilled large volumes of raw sewage to the surrounding communities. The City retained Hazen to serve as the design criteria professional for two emergency design-build contracts to install a redundant sewer line and transfer the flows over to it. Mr. Castro served as Hazen's Design Criteria Professional. His roles included presenting at the emergency pre-bid meeting, answering RFIs during the 5-day solicitation, reviewing the design and construction submittals from the design-build teams, provide hydraulic modeling data to assist with permitting, leading biweekly progress meetings and managing all the project documentation for this fast-tracked project.

Ocean Outfall Legislation Program, Miami-Dade Water and Sewer Dept., FL

Mr. Castro led the project delivery evaluation of the Conceptual Design Report for several projects on MDWASD's \$2.55 billion Ocean Outfall Legislation Program.

Value to Delray Beach

- Member of the Design-Build team for DBIA award winning projects including the Miami-Dade County Government Cut Utility Relocation Project and the Bear Cut Bridge and West Bridges Emergency Watermain Relocation Project.
- Served as Project Manager for multiple assignments under Hazen's Owner's Representative contract for the City of Fort Lauderdale Design-Build program; supported Design-Build projects from inception through design to construction quality oversight to project closeout.



Monica Pazahanick, PE

Deputy Project Manager

Job Classification (Title)

Senior Associate

Location

Boca Raton, FL

Education

MS, University of Arkansas,
Environmental Engineering,
2007

BS, Catholic University of
Bolivia, Cochabamba,
Environmental Engineering,
2004

Certification/License

Professional Engineer: FL
(#78245)

Areas of Expertise

- Water and Wastewater
Process and Mechanical
Design
- Project Management
- Construction Management
and Inspections

Experience

- 15 total years
- 6 years with Hazen

Professional Activities

American Water Works
Association

Florida Section American
Water Works Association
Region VI - Membership Chair

Florida Water Environment
Association

Southeast Desalting
Association – Symposium
Planning Committee Member

Ms. Pazahanick has 15 years of experience in the field of water and wastewater treatment. Her work includes treatment plants, pump stations, and chemical systems. She has successfully permitted and worked closely with permitting agencies for water-related projects, including Floridan aquifer RO systems.

Building 11 Improvements and Rehabilitation, City of Boca Raton, FL

Serves as Project Manager for preliminary and detailed design of the City's WTP Building 11 Improvements and Rehabilitation. Building 11 is the lime softening treatment process chemical building housing the lime, polymer, and brine process mechanical equipment, ancillary equipment and electrical room. This project includes rehabilitation and hardening of the building and replacement of the process mechanical equipment, electrical and I&C. Ms. Pazahanick coordinates design elements between the design team and the City, monitors schedule and budget, and coordinates and communicates with the design discipline leads.

Springtree Reverse Osmosis Water Treatment Plant, City of Sunrise, FL

Served as Design Engineer. Project included preparation of construction drawings and specifications for a 3-mgd treatment capacity with 1.5 mgd installed during Phase 1. The project design included conversion of an ASR well to a Floridan aquifer production well, pre-treatment (sand strainers and cartridge filters), 2-stage reverse osmosis membrane treatment, post-treatment (degasification and air scrubbers), and chemical systems.

Lime Softening versus Nanofiltration WTP Evaluation, City of Pompano Beach, FL

Served as Project Manager. Project included inspection of existing facilities, evaluation of lime softening WTP current conditions, and upgrade recommendations. Project also included cost comparison of nanofiltration WTP expansion versus upgrading the lime softening plant, including operational costs, and identification of advantages and disadvantages.

Southern Region Water Reclamation Facility Secondary Clarifier and Effluent Filtration Improvements, Palm Beach County, FL

Serves as Deputy Project Engineer for the construction phase. This project includes construction management and inspection services for rehabilitation of various infrastructure. Ms. Pazahanick performs specialty inspections, monitors construction activities, project schedule, and construction costs and coordination of sequence of construction and construction activities impacting operation and maintenance activities. She coordinates and manages activities involving County, Contractor, and Engineer staff and provides direct and effective communication amongst the parties involved.

Value to Delray Beach

- Experience in project management to efficiently and effectively communicate critical aspects of design and construction between the Owner, Contractors, and within interdisciplinary groups. Technical experience in all phases of a project from scope to facility start-up and commissioning in the water and wastewater industry for southeast Florida.



George Brown, PE

Pre-Construction Phase Support Lead

Job Classification (Title)

Senior Associate

Location

Hollywood, FL

Education

BS, University of Florida,
Environmental Engineering,
1996

Certification/License

Professional Engineer: FL
(#56076)

Areas of Expertise

- Upgrades to Existing Water Treatment Plants
- Water Supply Wells, Pumping and Pipeline Design
- Water Treatment Process and Mechanical Design
- Water Supply and Treatment Planning
- Chemical Feed Design

Experience

- 27 total years
- 26 years with Hazen

Professional Activities

American Water Works Association

American Society of Civil Engineers

Florida Section AWWA Risk Management / Safety Committee

Mr. Brown has 27 years of experience in the design and construction of water and wastewater infrastructure along with managing multidisciplinary design teams from master planning, conceptual planning, detailed design, permitting through construction and startup.

He has participated in the design of approximately \$100 million of improvements for the City of Fort Lauderdale's Fiveash and Peele-Dixie Water Treatment Plants (WTPs), and the Dixie and Prospect Wellfields. He serves as Deputy Project Manager for the City's Fiveash WTP Owner's Representative project.

General Consulting Services Contract, City of Fort Lauderdale, FL

Mr. Brown served as Design and Contract Manager for the City of Fort Lauderdale's General Consulting Services Contract. Served as an advisor to the City for all water-related projects. Managed multidisciplinary teams from planning, design, and permitting, through construction oversight and startup of new water infrastructure for over 150 projects amounting to \$130 million in water supply, treatment, and distribution infrastructure improvements.

Dixie Wellfield Improvements, City of Fort Lauderdale, FL

The City of Fort Lauderdale decided to design and construct a new membrane nanofiltration WTP and associated wellfield. Mr. Brown served as Project Manager and Civil, Mechanical and Plumbing Engineer-of-Record to plan, design, permit, and provide services during construction of the Dixie Wellfield. He also served as Project Manager during design, permitting, construction, and testing of two Floridan Aquifer wells to collect water quality data to assess the efficacy of expanding the Dixie WTP using reverse osmosis technology.

Fiveash WTP Upgrades Phase 1, City of Fort Lauderdale, FL

Mr. Brown served as Project Manager and Civil and Mechanical Engineer-of-Record for design, permitting, and construction of the City's Fiveash WTP Upgrades Phase 1 project. The upgrades consisted of many project elements that are critical to maintaining the reliability of the existing lime softening process.

Membrane Softening Facility, City of Hallandale Beach, FL

Hazen provided pilot testing, design, bidding, permitting, and construction management services for a new 6-mgd membrane facility to replace an equivalent volume of existing lime softening capacity at its WTP. Total buildout capacity of the new facility is 10 mgd, which includes 6 mgd of nanofiltration that is currently in operation plus the capability to add up to 4 mgd of brackish water RO treatment capacity. Mr. Brown served as Project Engineer.

Value to Delray Beach

- Project Manager and Mechanical Engineer-of-Record for study, design, permitting, and technical services during construction of water treatment plants, pump stations, storage tanks, pipelines, water supply, reclaimed water, and groundwater supply well projects in Florida.



Joseph Franko, PE

Construction Phase Support Lead

Job Classification (Title)

Senior Associate

Location

Boca Raton, FL

Education

BSCE, University of Florida,
Civil Engineering, 1989

Certification/License

Professional Engineer: FL
(#48077)

Areas of Expertise

- Construction Management
- Resident Engineer Services
- Project Management
- Design of Water and Wastewater Facilities
- Pump Station and Pipeline Design
- Permitting

Experience

- 33 total years
- 32 years with Hazen

Professional Activities

American Society of Civil Engineers

American Water Works Association

Florida Engineering Society

National Society of Professional Engineers

Mr. Franko has extensive water and wastewater design experience as well as project/construction management experience.

East Central Regional Water Reclamation Facility (ECRWF) Operations Board Biosolids Improvements, City of West Palm Beach, FL

Served as Lead Resident Engineer for general oversight of all construction activities for the \$92.6 million Biosolids Improvements project, coordination and oversight of all on-site inspections by three subconsultants, and direct responsibility for construction oversight of all the anaerobic digestion facilities. Mr. Franko was also responsible for chairing progress meetings, negotiating change orders, reviewing pay requests, performing loop tests of I&C system, startup and testing of the anaerobic digestion facilities, and project closeout.

Lake Washington Surface Water Treatment Plant (SWTP) Improvements City of Melbourne, FL

Mr. Franko served as Project Manager/Construction Manager for the \$12 million, Lake Washington SWTP Improvements 2A and 2B project that consists of a new raw water pump station, ozone generator building, ozone contactor, filter backwash pump station, and solids handling improvements. Mr. Franko also served as Engineer-of-Record responsible for all construction management, part-time resident project representative (RPR) services, chairing progress meeting, submittal coordination, reviewing pay applications, negotiating change orders and project closeout, and permitting certifications.

Southwest Wastewater Treatment Plant Improvements, City of Sunrise, FL

As Construction Project Manager, Mr. Franko's responsibilities included full-time resident project representative, management of all submittals, chairing progress meetings, negotiation of change orders, review of pay requests, and project closeout. The plant expansion included construction of various infrastructure. Project included all piping, pumps, and all associated civil, mechanical, electrical, instrumentation, and structural work.

14.5-mgd Nanofiltration Facility, Town of Jupiter, FL

The Town operates a water treatment plant with four independent treatment processes: lime softening, ion exchange, and reverse osmosis and nanofiltration (NF). The Town added a NF facility to produce potable water from the surficial aquifer. The NF treatment will continue ongoing product water quality improvement and ultimately allow retirement of a portion of the lime softening treatment plant. Mr. Franko was responsible for gravity collection system and waste stream lift station design/concentrate disposal line design.

Value to Delray Beach

- Participated in multiple alternative delivery projects including the Miami-Dade Water and Sewer Department Government Cut Utility Relocation Projects, Tallahassee T.P. Smith WRF, and currently the City of Daytona Beach Westside WRF and the Fort Pierce Utilities Mainland WRF.



Patricia Carney, PE, BCEE, DBIA

Design-Build Project Advisor

Job Classification (Title)

Vice President

Location

Hollywood, FL

Education

ME, Manhattan College,
Environmental Engineering,
1991

BS, Manhattan College, Civil
Engineering, 1990

Certification/License

Professional Engineer: FL
(#50175)

Areas of Expertise

- Alternative Project Delivery
- Water and Wastewater Treatment
- Construction Management
- Project Management

Experience

- 31 total years
- 14 years with Hazen

Professional Activities

DBIA South Florida Chapter
Steering Committee, Co-Chair

American Academy of
Environmental Engineers

American Water Works
Association

Water Environment Federation

Florida Water Environment
Association

American Society of Civil
Engineers

Ms. Carney has 31 years of experience in the analysis, planning, design, permitting, and construction management of water, wastewater, and stormwater conveyance and treatment systems. She has directly participated in Design-Build projects for the last 20 years.

Sewer Design and Implementation Program, City of Fort Lauderdale, FL

Ms. Carney serves as Project Manager for this \$150 million program to provide documentation, planning, design, and CEI services to assist the City with compliance to a Consent Order (CO) from the State of Florida. The CO contains 51 milestones to be completed in accordance with stipulated deadlines, of which 24 milestones needed to be met within 18 months of the effective date of the CO. They included completion of force main and pump station projects, completion of infiltration and inflow projects, and updating the City's sewer assets map. In addition to providing program management services, Hazen serves as an Owner's Representative on the City's Design-Build procurement process for certain milestones/projects mandated by the CO.

NW 13th Street 24-inch Force Main Replacement Phase 1 Design Criteria Package (DCP), City of Fort Lauderdale, FL

Hazen served as the Design Criteria Professional for the fast-track development of a DCP for replacement of 3,000 feet of 24-inch cast iron force main via a design-build project delivery approach. Ms. Carney led the team and developed the DCP within 45 days.

Government Cut Utilities Relocation Design-Build – Miami-Dade Water and Sewer Department, Miami-Dade County, FL

Ms. Carney served as Assistant Design Manager for the relocation of a 20-inch water main and a 54-inch sanitary force main crossing underneath Government Cut. She oversaw all design, permitting, construction inspection, shop drawing review, design and construction schedule updates, and responded to questions and issues that arose during construction.

Value to Delray Beach

- Successfully delivered design-build projects with aggressive schedules such as the Fort Lauderdale North and South Redundant Force Main Design-Build project.
- Winner of multiple Design Build Institute of America (DBIA) awards for her design achievements, most recently the 2014 Water/Wastewater Honor Award for the Government Cut Utility Relocation Project and the 2014 Project of the Year and Infrastructure Honor Award for Bear Cut Bridge and West Bridges Emergency Water Main Relocation project.
- Member of Hazen's Board of Directors, she has the authority to ensure that any and all Hazen resources are available to assist Delray Beach on this critical project.



Gerrit Bulman, PG

Construction Manager for Wells

Job Classification (Title)

Senior Associate

Location

Hollywood, FL

Education

MS, Geological Sciences,
University of Alabama, 2005

BS, Geological Sciences,
Brown University, 2000

Certification/License

Professional Geologist: FL
(#2697)

Areas of Expertise

- Floridan Aquifer Well Design
- Design-Build Project Management
- Florida Hydrogeology
- Injection and Monitoring Well Planning
- Wellfield Rehabilitation
- EPA WIFIA and SRF Funding

Experience

- 20 total years
- 1 year with Hazen

Professional Activities

American Water Works
Association

Chair Region VI, Florida
Section American Water
Works Association (FSAWWA),
2015-2017

Mr. Bulman serves as the Hydrogeology and Injection Well Lead for South Florida. He has extensive knowledge of the Florida Department of Environmental Protection (FDEP), the South Florida Water Management District, and other state/local regulators in Florida.

Injection Well Program Management - Ocean Outfall Legislation Program, Miami-Dade Water and Sewer Department, Miami-Dade County, FL

Mr. Bulman serves as Management and Technical Lead for unprecedented-scale injection well implementation project planning and program management. Over the next decade, the program will include installation of 15-20 new large diameter (24-inch) injection wells to depths of approximately 3,000 feet to accommodate over 1 billion gallons of treated wastewater per day.

ASR Well and East Plant Expansion Test Wells, City of Boynton Beach, FL

Serving as Hydrogeologist and Project Manager, Mr. Bulman was responsible for construction and testing of a Class V ASR well and two Floridan Aquifer monitor wells to assist the City meet its alternative water supply demand.

Class I Industrial Injection Well, Seacoast Utility Authority, Palm Beach Gardens, FL

As Hydrogeologist, Mr. Bulman completed permitting, construction management, hydrogeologic analyses, and reporting for a 3,250-foot Class I Industrial injection well for the disposal of membrane concentrate.

Deep Injection Well System Rehabilitation and Mechanical Integrity Testing, City of Deerfield Beach, FL

As Hydrogeologist and Project Manager, Mr. Bulman prepared planning documents and specifications for rehabilitation of the City's Class I industrial deep injection well at the West Water Treatment Plant. He also managed field services and regulatory communication during testing and submitted a certified report to FDEP following successful rehabilitation and testing of the well.

Wellfield Capacity and Optimization Evaluation, Fort Pierce Utilities Authority, FL

As Hydrogeologist, Mr. Bulman developed the evaluation matrix and optimization recommendations for a surficial aquifer wellfield based on field inspections, well yields, access, emergency power availability, and proximity to contaminants.

Value to Delray Beach

- Professional Geologist with extensive well planning, design, permitting, bidding, construction management and water use permitting experience.
- Managed wellfield rehabilitation, deep injection well, ASR well, reverse osmosis (RO) supply well, shallow and deep monitoring well, and stormwater drainage well permitting, bidding, construction, and testing projects throughout Florida.



Erik Rosenfeldt, PhD, PE

Technical Advisory Committee

Job Classification (Title)

Associate Vice President

Location

Richmond, VA

Education

MS, Geological Sciences,
University of Alabama, 2005

BS, Geological Sciences,
Brown University, 2000

Certification/License

Professional Engineer: VA
(#402053908), NY (#102721)

Areas of Expertise

- Water process technology
- Physical/chemical processes
- Bench / pilot testing
- Water chemistry
- Emerging contaminants
- Disinfection byproducts
- Advanced water treatment processes

Experience

- 23 total years
- 12 years with Hazen

Professional Activities

VA AWWA: Water Quality and Research

AWWA: Organic Contaminants Research Committee

International Ozone Association

International Ultraviolet Association

Dr. Rosenfeldt serves as Hazen's Drinking Water Practice Leader and a senior member of the firm's drinking water process and applied research groups.

His work has focused on drinking water and reuse technology, evaluating, implementing, and optimizing conventional and advanced treatment processes for a variety of water quality concerns, including emerging contaminants such as EDCs, PFAS, PPCPs, taste and odor and algal toxins, groundwater pollutants, as well as conventional and emerging DBPs.

PFAS Management Plan, Miami-Dade Water and Sewer Department, FL

Technical Lead for project to help manage PFAS compounds. The project includes review of the PFAS monitoring program, a hydrogeology review, review of current and potential future PFAS regulations, and an assessment of management alternatives. Dr. Rosenfeldt will also assist WASD in preparing for meetings with DERM, FDOH, and stakeholders within the county.

Advanced Reuse Treatment Technology Pilot Testing, City of Hollywood, FL

Process Expert. Provided technical assistance in developing, planning, and executing pilot testing of advanced treatment technologies, including ion exchange, MF membranes, UV advanced oxidation, ozone, and biological filtration with the goal of reducing levels of emerging contaminants. The project included developing novel methods for evaluating treatment efficiency for removal of emerging contaminants and for assessing biological conditions favoring both formation and degradation of nitrosamines in biological filtration.

Groundwater PFAS Control, New York American Water, NY

Technical Advisor, Quality Control. Hazen designed design for control of PFOA and PFOS in New York State. The project included designing to achieve compliance for PFAS regulations that were under development during the design process. The design is ultimately capable of achieving PFOA and PFOS of less than 10ppt (combined), to adequately achieve compliance with the strictest PFOA and PFOS MCLs in the nation to date.

Full-Scale Implementation Program Sustainable Water Initiative for Tomorrow (SWIFT), Hampton Roads Sanitation District, VA

Technical Process/Mechanical Design Lead. Ozone and UV. Technical Process Assistance for BAF, GAC. This 10-year program will ultimately serve as a water supply to refill the rapidly depleting Potomac Aquifer.

Value to Delray Beach

- Expert in leading water quality evaluations to ensure processes are selected, sized, and implemented correctly to ensure treatment reliability.
- Has designed and performed cutting edge research, along with numerous bench-, pilot-, and full-scale studies for evaluating the implementation of traditional and cutting-edge technologies in drinking water and reuse applications.

6

Approach, Capacity, and Organizational Information



Section No. 6

Approach, Capacity, and Organizational Information

The residents of Delray Beach require a sustainable and protective water supply to serve them well into the future. The successful design and construction of your water treatment plant is not without challenges. We believe the Hazen team is the right partner to effectively navigate the water supply and treatment considerations and plan for the long-term needs of the City.

Project Understanding

The City of Delray Beach is seeking a firm to provide owner's representative services for the design and construction of a new 14-mgd nanofiltration water treatment plant (WTP) to serve the residents of Delray Beach. The new WTP will be delivered via progressive design-build (PDB) and is anticipated to be awarded to a design-build (DB) firm in November 2022.

The Owner's Representative will guide the City through the procurement of the design-build firm and serve as the City's extension of staff for the execution of the nanofiltration plant PDB project.

The City's WTP is over 50 years old with portions that were recently determined to be nearing the end of their useful life. In order to provide organics removal to meet current regulations (e.g., disinfection byproduct formation potential) as well as position the City properly to meet future regulatory requirements (e.g., removal of emerging contaminants), the City has smartly elected to invest in nanofiltration treatment to treat raw water from the Biscayne Aquifer and plan for future reverse osmosis treatment to treat raw water from the Floridan Aquifer. Nanofiltration treatment of the City's current Biscayne Aquifer allotment of 19.1 mgd will result in 15-16 mgd of treated water, if all water were to be treated through nanofiltration, at 80 to 85% recovery. The City has planned for a nominal 14-mgd nanofiltration facility, a decision that is protective of the residents both presently and in the future.

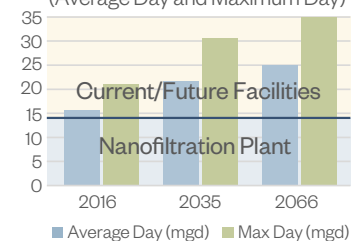
Our team believes in planning for the unpredictable. As Owner's Representative, we encourage the City to consider the design and construction of this facility to have the flexibility to meet current maximum day demands for the next 20 years. Typically, we recommend sizing nanofiltration facilities with at least one redundant skid at maximum day demand. Future needs, likely treating the Floridan Aquifer through reverse osmosis, should be configured within the original design but not constructed until the future projected date when the additional water is demanded.



Key Challenges

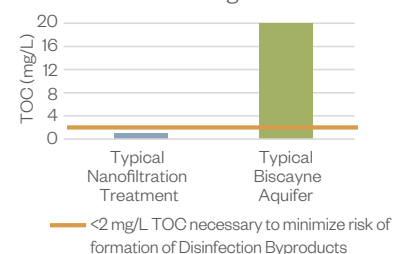
- Limited staffing resources
- Avoiding pitfalls associated with design-build delivery
- Delivering a water plant to meet the City's demands and operational needs

City of Delray Beach
Future Project Water Demands
(Average Day and Maximum Day)



Water Quality

Implement Nanofiltration to Reduce Total Organic Carbon



Always Keeping Future Conditions and Plant Flexibility in Mind

Historically, Hazen's designs have been developed with regard to future conditions and future needs for expandability (e.g., future skids)

This approach has been proven to be beneficial during construction of future expansions by minimizing the impact on normal operations. Both the Peele-Dixie Membrane Plant (nanofiltration of the Biscayne Aquifer) and the Hallandale Beach Membrane Plant (nanofiltration of the Biscayne Aquifer) included floor space, pipe gallery space, embedded conduit, and electrical provisions for the future addition of reverse osmosis skids of the Floridan Aquifer. The initial cost was minimal but allowed both facilities the flexibility for the future.



Fort Lauderdale Peele-Dixie Membrane Plant



Hallandale Beach Membrane Plant

As Owner's Representative, Hazen will partner with the City to ensure the optimal delivery of this important project, on-time and under budget. The City requires an Owner's Representative with local resources for each of the following:

**Experienced
design-build
professionals**

**Experienced
Biscayne Aquifer
supply permitting
and modeling
experts**

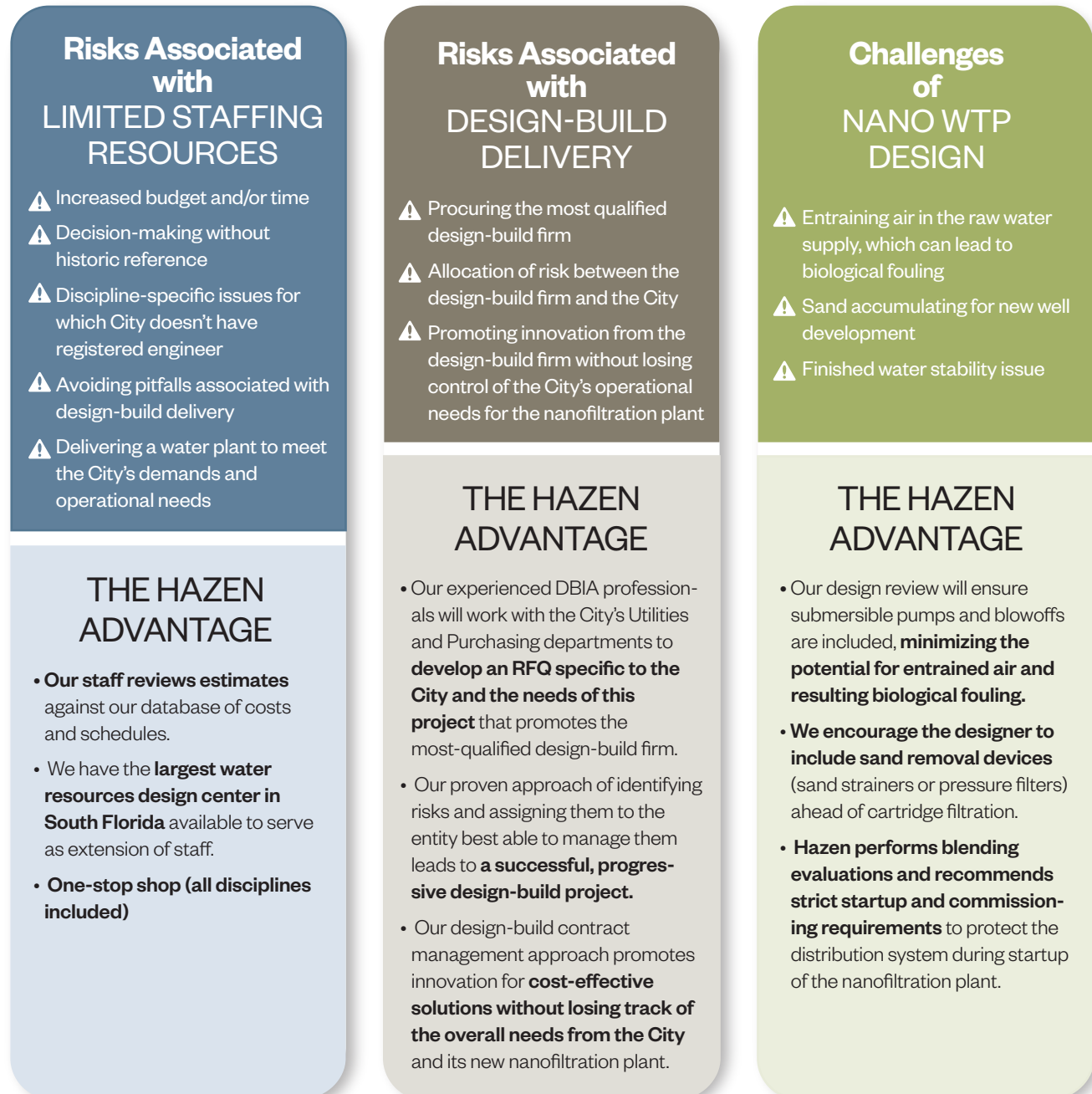
**Experienced
nanofiltration
plant designers**

Hazen offers this experience through our proposed team of local engineers and hydrogeologists. This expertise will benefit the City in several ways:

1. The City, similar to other local utilities, has limited staff to oversee and manage every aspect/phase of the project.
2. There are risks associated with PDB projects that may not be readily perceived except by certified design-build professionals.
3. Successful raw water supply well and nanofiltration treatment design of the Biscayne Aquifer requires the right experience and application of lessons learned by local (specific to southeast Florida) experienced engineers and hydrogeologists.

The graphic below highlights select risks and challenges that the City and/or selected PDB may encounter that are associated with limited staff resources, limited Design-Build experience, and nanofiltration WTP design.

Our experts will maintain this project on course, ensuring sustainable water delivery.



We have the experts to guide and advise the City every step of the way, to efficiently and cost-effectively deliver a reliable water supply to Delray Beach residents.

Approach

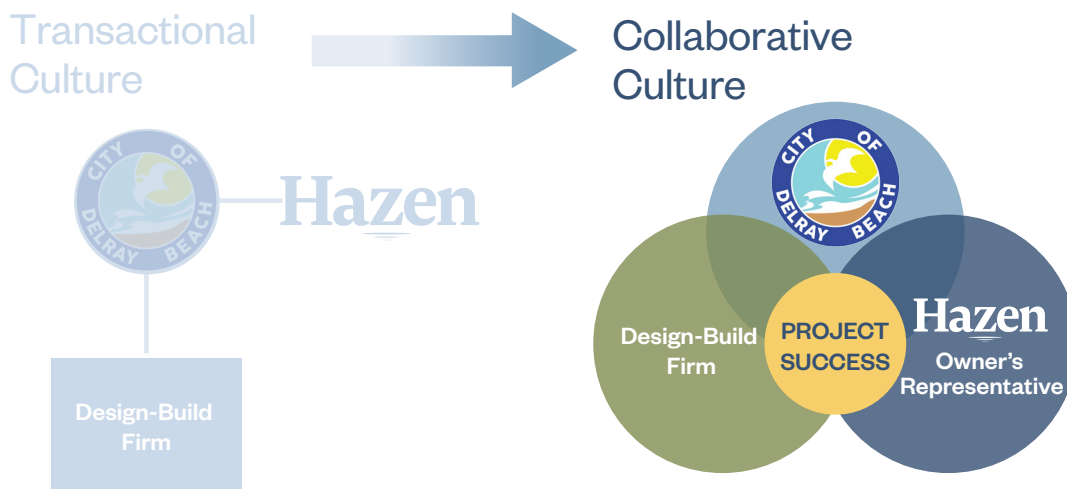
A **Progressive Design-Build (PDB)** project delivery model is a type of design-build where the City retains a design-build firm to progress the design to a point where an overall contract price can be established along with a commercial proposal. The City can then enter into an agreement to execute the construction phase of the project or take the “off-ramp” and use the design and move forward with the project through another contract strategy.

A PDB model is best suited in these times of price uncertainty and supply chain issues that lead to long lead times by reducing the uncertainty risk, which translates to reduced cost to the City.

We understand the makeup of the various roles of the PDB delivery team members and have proven experience as an Owner’s Representative facilitating transformation from a typical transactional culture to a more collaborative and cohesive one, with the ultimate goal of delivering the City a successful project.

The City made the right decision in using a Progressive Design-Build project delivery model to deliver its new Nanofiltration Water Treatment Plant **and is looking for a Trusted Advisor to guide them through this project.**

Our approach is to be flexible as part of the PDB Team to ensure a cohesive team.



HAZEN is preparing water clients for the new PFAS Health Advisories

In advance of the UCMR5, EPA recommends that systems test for PFAS in their water supplies and encourages drinking water utilities that find PFAS in their drinking water to take steps to inform residents; undertake additional monitoring to assess the level, scope, and source of contamination; and examine steps to reduce exposure.

We have developed an approach that will guide the City

throughout the various phases of the PDB project delivery and mitigate risk.



PROCUREMENT PHASE

As part of this phase, we will assist the City in the RFQ development and process, shortlisting, interview, selection, and contract development and negotiation with the selected design-builder for the pre-construction services.

Hazen will establish minimum qualifications for the Design-Build teams specific to the nanofiltration water treatment project. These qualifications will be established to ensure qualified teams propose on the project while encouraging competition. The specific qualifications required will depend on the scope of the project, but will generally involve specific requirements relating to:

- Experience in the design and construction of nanofiltration or membrane plants larger than 10 mgd.
- Qualifications of key personnel, including the Design-Build Manager, Design Manager, Construction Manager, Start-up and Commissioning Manager, and key subs.
- Organizational capacity to deliver project.
- Ability to self-perform work.

- Financials.
- Experience Modification Rate (safety indicator).
- History of lawsuits.
- Small business participation.

During the procurement process, Hazen will support the City's Purchasing Department in responding to any RFLs received from the Design-Build teams. We will evaluate the statement of qualifications (SOQ) received to develop recommendations for the top two or three teams to be shortlisted for interviews. Although Hazen will not be a scoring member of the selection committee, Hazen will serve as a Technical Advisor to the City during the proposal evaluation process.

In addition, our approach is to help the City draft and negotiate contracts for the Design-Build's Preconstruction Services (also known as Phase One) for development of the design and establishment of a Guaranteed Maximum Price (GMP). We will meet with the City's legal team to develop a contract that is equitable for both the City and the potential design-build firms.



PRE-CONSTRUCTION PHASE (PHASE ONE)

This phase is also known as Phase One in PDB. During this phase, we will assist the City with design review, design-build contract management, and document control for the project.

Hazen will encourage innovation of the design-build firm. We will chair workshops with the design-build firms and the City to identify innovations and cost savings opportunities. A list of example innovations that would be considered are presented below:

- Center port vessels for nanofiltration (NF) process for energy savings >30%
- Designability to allow small-scale concentrate reuse for landscape irrigation
- Consider sand strainers and/or high rate pressure filter for NF pretreatment
- Install energy recovery devices for high efficiency over a wide range of feed water salinity
- Add carbonate recovery post-treatment techniques
- Design distributed booster pumps for energy-efficient and cost-effective concentrate disposal

In this phase, we will help the City evaluate and negotiate the GMP that the design-builder will establish. Our team of estimators and schedulers will validate that the City is receiving a fair price and construction duration for the construction phase of the project (Phase Two).

As part of Phase One, we will also develop tools which include the Risk Register, Cost Estimate Template for the GMP Development, design revision log, and overall project schedule (high level). These tools will be incorporated into a design evolution log or database for the Owner's Representative and the City for continuous updating during the design and construction process.

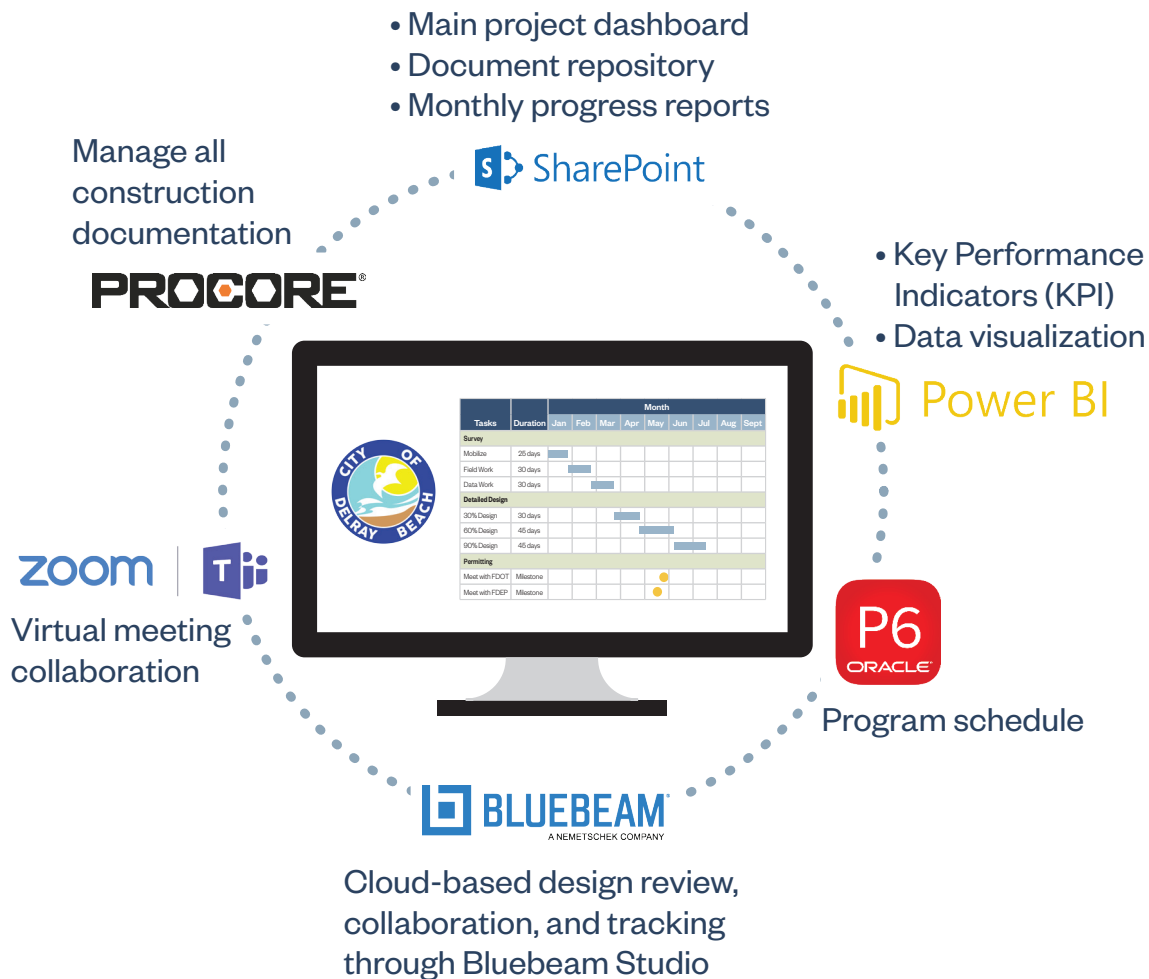
Our approach also includes developing a cloud-based document control management and collaboration system to facilitate **rapid and effective communication between team members.**





CONSTRUCTION PHASE (PHASE TWO)

During the Construction Phase (Phase Two), Hazen will support the City with construction management, construction engineering inspection, commissioning of the treatment plant, closeout, and warranty period, along with services requested in the RFQ. The table on the next page provides a brief overview of the services anticipated to be provided as part of the Construction Phase.



Hazen's document management plan will include a project website that will be configured as a digital dashboard that displays key overall project status data visualization graphics of key performance indicators (KPI) in one easy-to-access place. All project documents will be accessible—from links on the project website—to personnel (City or design-builder) with appropriate access levels. All data will be secure. At close-out, all project documentation will be turned over to the City electronically.

Communication with the Public and Elected Officials

Engaging the public throughout the entire project is critical for the successful delivery of the City's water treatment plant. We have included The Valerin Group to lead the public involvement and community outreach efforts. Valerin's talented staff of communications and creative professionals have more than 400 years of combined experience and have worked on over 600 public utility and transportation projects and initiatives for clients. To provide up-to-date information to the public and elected officials, the Hazen team will also develop and utilize a project website to communicate and provide project status and updates. This project website will also be used to facilitate rapid and effective communications between team members. Our team is committed to engaging the public and elected officials throughout the project, listening to their needs, concerns, and suggestions.

As Owner's Representative, our team will serve as the City's extension of staff to manage and oversee this project from procurement through start-up.

Scope Elements (Construction Phase)

Project Controls (Continued from Pre-Construction Phase)

- Construction Schedule
- Budget
- Document Management System

Constructability Review

Value Engineering

Communications with the City's Contract Administrator

Construction Oversight

- Review payment applications, requests for information
- Assist with dispute and claim resolution
- Verify as-built updates
- Prepare a punch list
- Lead preconstruction, pre-activity and progress meetings/provide minutes
- Review contractor's safety plans, quality control plans, etc. and recommend acceptance or rejection to City's contract administrator
- Log and review submittals
- Track certification and close-out certification

Well Drilling Oversight

Construction Inspections – all disciplines

- Monitor project, testing and inspections, compliance with Building Code and standards
- Provide construction observation summaries
- Inform City's Contract Administrator of all significant discrepancies, omissions, substitutions, and deficiencies

Operations and Startup

Training/Standard Operating Procedures

Record Drawings

Post Construction Claims Review

Warranty

Hazen provides a full-service team experienced in providing these services for not only water treatment plants but also for concentrate disposal wells—a critical aspect of this project which will necessitate an experienced drilling oversight team in addition to the plant construction team. The Hazen team embodies every talent that the City will require for Construction Management, Commissioning, Closeout, and Warranty.



GO OUT TO BID “OFF-RAMP”

One of the advantages of a Progressive Design-Build project delivery model is the ability for the City to take an “off-ramp” and not proceed with the construction phase of the design-build contract should the City fail to accept the design-builder's price or commercial terms. Should this take place, Hazen will advise and assist the City on how to handle this situation. As part of our Procurement Phase services, we will provide the City with contract language for the design-builder's preconstruction phase contract (Phase One contract) to protect the rights of the City to use Phase One design information for subsequent procurements associated with the project. Although the “off-ramp” is very seldom taken, the City can rest assure that Hazen will be able to guide them through this effort if the decision is made to take it.



Hazen

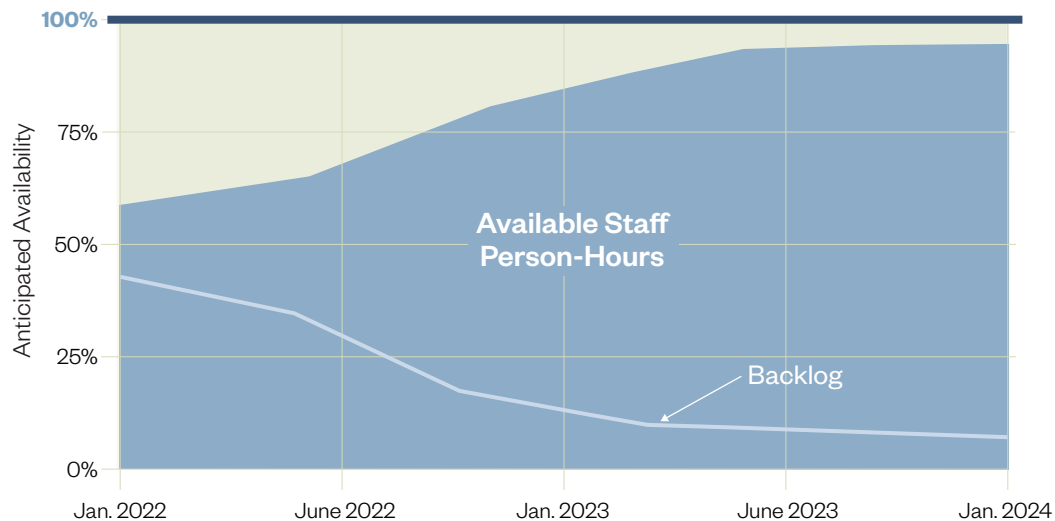


Proposer's and Proposed Staff Capacity to Perform the Services

Hazen management has a conservative approach of only undertaking new assignments when workload permits and adequate staff is available to provide the complete range of services required, and for the expected duration of the project. Should we be selected for this contract, we commit that the individuals identified on the organizational chart will be available to the City. We commit that our proposed team members are ready to meet the City's established schedules and project budgets and begin the tasks specified in the RFQ.

Staff Availability

This chart demonstrates our anticipated availability for this project, considering all other active projects. Hazen is committed to keeping our professional resources available to the City to provide the services described in the RFQ.



Should unforeseen circumstances occur, and project acceleration is required, our team has the necessary support and backup staff at all levels with experience in all disciplines required. We have approximately 170 staff members located in our eight Florida offices (of which 95+ are located in South Florida) and in-house expertise in all of the major disciplines noted in the RFQ. These staff members consist of water treatment plant design and operations experts; owner's representative experts; electrical, structural, mechanical, and instrumentation and controls experts; and construction management experts.

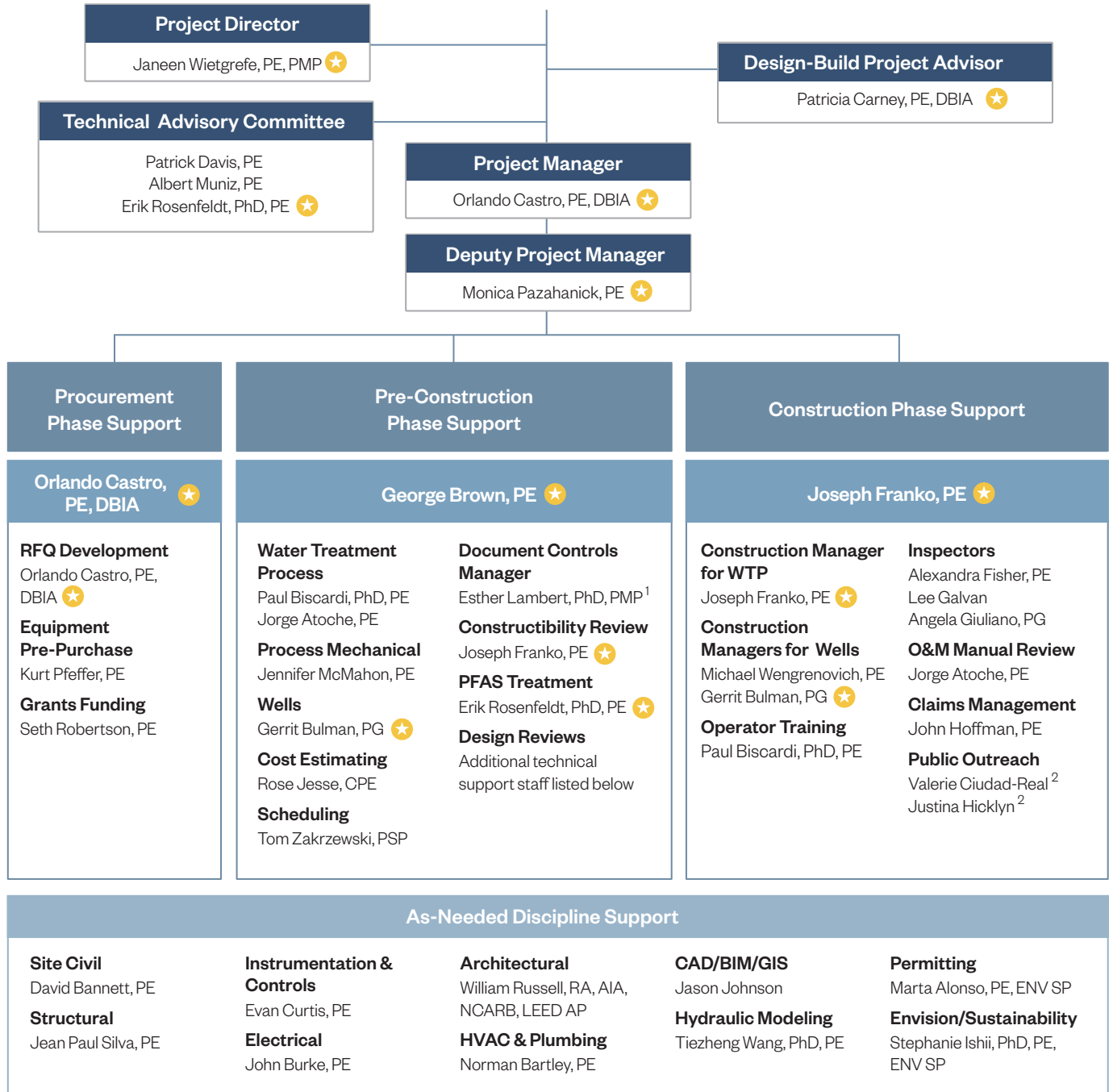
We also have the capacity to draw upon our approximately 1,430 firmwide staff members as needed. Additionally, we have included two subconsultants on our team: The Valerin Group, Inc. (public outreach) and Corporate Project Services, Inc. (document control).

Organizational Diagram

We have assembled a local team that will provide the City with the wide range of engineering and water treatment plant design and construction experience needed from an Owner's Representative for this important project. We have assigned our most qualified professionals to ensure that we can quickly respond to the City's needs. Many of our staff members live and work in South Florida. Our team possesses a sense of responsibility and accountability that only residents can provide, as well as a logistical advantage when it comes to familiarity and responsiveness.

The organizational chart on the next page demonstrates how team personnel will be organized to address the varying phases of this PDB project. Many of our proposed team members have worked together on relevant projects right here in South Florida. Key personnel are identified in the organizational chart, and their resumes are included in Tab 5 – Experience and Project Team.

Organization Chart



Subconsultants

- Corporate Project Services, Inc. (S/WBE, WBE)
- The Valerin Group, Inc. (SBE, WBE)

★ Key Staff – Resume included in Tab 5

Note: Specialty subconsultants will be added on an as-needed basis with approval from the City.

We have proposed a local management team experienced in design-build delivery, project management, and nanofiltration treatment design with over 57 years of experience
right here in Southeast Florida.



Janeen Wietgreffe, PE
Project Director



Orlando Castro, PE, DBIA
Project Manager



Monica Pazahanick, PE
Deputy Project Manager

Our team will assist the City to mitigate risks and deliver the nanofiltration water treatment plant on-time and on-budget,
 and fulfill the City's water demand and water quality requirements.

Responsibilities, Contractual Relationships, and Roles

Our project management team will be led by our proposed Project Manager, Orlando Castro PE, DBIA, who will serve as the primary point of contact for this contract and will manage all efforts of the team. Mr. Castro will be responsible for day-to-day communication and coordination with the City. He is a DBIA-certified professional experienced in best practices for "Design-Build Done Right" that will benefit the City in the procurement and execution of the PDB solicitation and contract. He has served in multiple design-build delivery roles on award-winning design-build projects throughout South Florida.



Janeen Wietgreffe, PE, PMP, will serve as Project Director, providing overall project oversight and ensuring all necessary resources are available to the City. As an officer and shareholder of the firm, she has the authority to ensure that any and all Hazen resources are available to assist the City on this project.

Mr. Castro will be supported by **Deputy Project Manager, Monica Pazahanick, PE,** who possesses extensive experience in the study, design, permitting, bidding, and construction management of water treatment plant projects including projects for Palm Beach, Collier, and Miami-Dade Counties; and the Cities of Sunrise, Boynton Beach, and Pompano Beach.

Our proposed project management team is supported by experienced key staff that bring a wealth of local and national expertise in all the components critical to a successful Design-Build delivery. They include:



George Brown, PE (Pre-Construction Phase Support Lead): Mr. Brown has led the design of multiple water treatment, supply, pipelines, storage and pump station projects in South Florida. He will lead a team of professionals during Phase 1 of the PDB contract to provide design review, treatment technology review, GMP evaluation, value engineering, document controls management, and constructability review for the project.



Joseph Franko, PE (Construction Phase Support Lead): Mr. Franko will lead the Construction Phase Support services for this project and will serve as the Construction Manager for the water treatment plant. He has served as the Construction Manager on some of the largest water and wastewater projects in South Florida. He is experienced in the quality control, monitoring and reporting required during construction as well as undergoing the steps, procedures, and documentation required to properly start up and commission a new facility.



Patricia Carney, PE, BCEE, DBIA (DB Project Advisor): Ms. Carney will serve as an advisor on the PDB solicitation and contract development. She has served in this role on numerous national projects such as the Hampton Roads Sanitation District (VA) SWIFT project. She and Mr. Castro bring unmatched experience working together on Design-Build projects, having served together in leadership roles on multiple Design-Build projects including the award-winning Government Cut Design-Build project for the Miami-Dade Water and Sewer Department and Bear Cut and West Bridges Emergency Water Main Relocation.



Gerrit Bulman, PG: Mr. Bulman will provide wells design review and serve as Construction Manager for Wells. He will review any water supply or disposal well design and develop a permitting approach for the wells with the SFWMD and FDEP to avoid permitting delays. He will also oversee construction of the wells. He possesses extensive well planning, design, permitting, bidding, construction management, and water use permitting experience.



Erik Rosenfeldt, PhD, PE: Dr. Rosenfeldt, a national leading expert in PFAS, will review the proposed water treatment process relative to emerging technologies and regulations related to PFAS. His work has focused on applying conventional and advanced drinking water treatment to address a variety of water quality challenges, ranging from conventional treatment challenges (turbidity, DBPs) to emerging contaminants including PFAS, EDCs, PPCPs, taste and odor, and algal toxins.

In addition to key staff, our team is supported by qualified professionals who will provide value to the City during the various phases of the project. The following is a list of their names, roles, and responsibilities.

Name/Office Location	Role	Responsibility
Patrick Davis, PE (Hollywood, FL), Albert Muniz, PE (Boca Raton, FL), and Erik Rosenfeldt, PhD, PE (Richmond, VA)	Technical Advisory Committee	Provide review and recommendations of macro-scale issues related to South Florida water treatment technologies, South Florida water supply and disposal issues, and national emerging technologies in water treatment.
Kurt Pfeffer, PE (Boca Raton, FL)	Equipment Pre-Purchase	Will lead the efforts for any Owner-furnished equipment that the teams decide to procure in order to mitigate supply chain delays.
Seth Robertson, PE (Raleigh, NC)	Grants Funding	Will lead efforts to identify and procure any local or national funding opportunities that may be used on this project.
Paul Biscardi, PhD, PE (Tampa, FL)	Water Treatment Process and Operator Training	Will review the design-build firm's water treatment process design. He will also lead and assist in any water treatment plant operator training during startup.
Jennifer McMahon, PE (Hollywood, FL)	Process Mechanical	Will review the design-build firm's process mechanical design for suitability for the application and operational needs.
Rose Jesse, CPE (New York, NY)	Cost Estimating	Will review the GMP and comment as to proposal to current market conditions.
Tom Zakrzewski, PSP (New York, NY)	Scheduling	Will develop overall baseline schedule for the project and provide monthly updates. Will review design-build firm's schedule relative to the overall baseline schedule.
Esther Lambert, PhD, PE (West Palm Beach, FL)	Document Controls Manager	Will manage all the documentation on a web-based platform during Phases One and Two of the PDB contract.
Michael Wengrenovich, PE (Hollywood, FL)	Construction Manager for Wells	Will oversee construction of the wells.
Alexandra Fisher, PE (Boca Raton, FL)	Inspector	Will provide construction engineering inspections related to construction of the water treatment plant.
Lee Galvan (Hollywood, FL)	Inspector	Will provide construction engineering inspections related to construction of the water treatment plant.
Angela Giuliano, PG (Boca Raton, FL)	Inspector	Will provide construction engineering inspections related to construction of the water supply and disposal wells.
Jorge Atoche, PE (Tampa, FL)	O&M Manual Review	Will review O&M manuals prepared by the design-build firm for compliance of minimum standards required by treatment plant operators to properly operate and maintain their plant.
John Hoffman, PE (Hollywood, FL)	Claims Management	Will provide assistance in negotiating and settling any construction disputes and/or claims.
Valerie Ciudad-Real, Justina Hicklyn (West Palm Beach/ Tampa, FL)	Public Outreach	Will assist the City to connect, inform, and obtain feedback from City residents and other stakeholders regarding the nanofiltration treatment plant project.

Quality Assurance and Quality Control

The Hazen team will employ time-tested Quality Assurance and Quality Control Procedures throughout the life of the project. As part of the Project Plan, a Quality Management Plan (QMP) will be developed to ensure that all services and related deliverables are of the highest quality possible, and all project team members will adhere to this QMP.

As the Owner's Representative, we will create a quality plan that is tailored to meet the City's needs. Key features of the quality plan will include the following:

- Utilize state-of-the-art quality control tools
- Mitigate risk through informed planning
- Involve the City's WTP operations and maintenance staff in design decisions

Utilization of State-of-the-Art Quality Control Tools

The Hazen team will require that the progressive design-build team utilize Bluebeam Studio to collaborate (improving project delivery speed and efficiency) along with a common set of QC review guidelines to ensure that all comments are fully addressed.

Hazen will employ state-of-the-art quality control tools for accelerated collaboration to achieve superior quality.



We use Bluebeam® Studio to connect team members to collaboratively mark up drawings and specifications in a virtual studio that automatically tracks all comments

Hazen's established guidelines include:

- Standard QC review tool sets
- Standards for Engineers' responses
- Links to web-based tutorial videos
- Response tracking
- Archiving of all QC documents



Hazen

7

Similar Completed Projects



Hazen

Section No. 7

Similar Completed Projects

Hazen will share lessons learned gained from our extensive owner representative, alternative delivery, and membrane plant projects with the progressive design-build team.

With our national and local owner's representative and design-build expertise, unmatched knowledge and participation in the design and construction of South Florida membrane treatment plant projects, and proven track record of successfully working with local governmental agencies and municipalities, the Hazen team is uniquely qualified to help guide the design and construction of Delray Beach's new water treatment plant.

Our team is specifically configured to ensure that the City gains value from the plenitude of lessons learned here in South Florida, throughout the nation, and across the world.

Over the past 10 years, we have successfully completed an array of alternative delivery and nanofiltration water treatment plant projects solely focused on water and wastewater utilities throughout the country. A representative tabular listing of similar projects is provided below and further detailed on the following pages.

Hazen delivered
\$4 billion in construction cost as an Owner's Representative
 to public utilities for Design-Build delivery services similar to those requested under this RFQ.

Project	Role	Delivery Method	Owner's Rep.	Design Criteria Professional	Nanofiltration WTP
Hampton Roads Sanitation District, VA - Sustainable Water Initiative For Tomorrow (SWIFT) Full-Scale Implementation Program Management	Program Management Team Member	Design-Build/ Progressive Design-Build (PDB)	●		
City of Fort Lauderdale - Owner's Representative for Fiveash Water Treatment Plant	Prime	PDB	●		●
City of Fort Lauderdale - Sewer Design and Implementation Program	Prime	Design-Build	●		
City of Miramar - East WTP Improvements	Prime	PDB	●	●	●
Miami-Dade Water and Sewer Department - Ocean Outfall Legislation Program	Subconsultant	Design-Bid-Build	●		
Biwater USA, Inc. - Biwater Fast Track Water System Facilities D-B Project	Prime	Design-Build	●	●	
Great Lakes Water Authority - Water Works Park WTP	Prime	Design-Build	●		
Millennium Challenge Corporation - Jordan Compact: Owner's Representative for Water and Wastewater Networks	Joint Venture Partner	Design-Build	●		
Town of Jupiter - 14.5 mg Nanofiltration Membrane Facility	Prime	Design-Bid-Build			●
City of Hallandale Beach 6-mgd Membrane Softening Facility	Prime	Design-Bid-Build			●
City of Plantation - East WTP 12-mgd Membrane Softening Plant Expansion	Prime	Design-Bid-Build			●
City of Plantation - Re-Membraning East and Central WTPs	Prime	Design-Bid-Build			●
City of Stuart - Alternative Water Supply Plan	Prime	Design-Bid-Build			●
City of Hallandale Beach - Reverse Osmosis Train Addition	Prime	Design-Bid-Build			●

The Hazen Team's Key Similar Projects

Project				
	SWIFT Full-Scale Implementation Program Management (Design-Build/PDB)		Owner's Representative for Fiveash Water Treatment Plant (PDB and Nanofiltration)	
Details	Client Reference Hampton Roads Sanitation District (HRSD), VA Lauren Zuravnsky, PE, (757) 355-5009, lzuravnsky@hrsd.com		Client Reference City of Fort Lauderdale, FL Alan Dodd, PE, (954) 828-5806, adodd@fortlauderdale.gov	
	Project Start/End 2018-2032 (design/construction)		Project Duration 07/2021-Present	
Brief Description	Project Fee \$110 million (est.)		Project Fee \$12 million (est. fee for overall contract)	
	Project Value \$2 billion (est.)		Project Value \$400 million	
Relevance/Team	Role Owner's Representative		Role Owner's Representative	
	<ul style="list-style-type: none"> The Sustainable Water Initiative For Tomorrow (SWIFT) adds multiple advanced water treatment process facilities to five HRSD wastewater treatment facilities to produce a highly treated water (SWIFT water) that complies with drinking water standards and is compatible with the receiving aquifer. This Design-Build project will recharge the Potomac Aquifer System with over 100 mgd of SWIFT water, which will significantly reduce the nutrient load to the Chesapeake Bay. Hazen is part of the Program Management Team providing program management and engineering services to design, construct, and commission SWIFT advanced water treatment infrastructure and associated WWTP upgrades at HRSD treatment plants by 2030. New \$26.3 million, 1-mgd Advanced Water Treatment Facility (previous Hazen project) 		<ul style="list-style-type: none"> As Owner's Representative, Hazen is assisting the City in the evaluation and selection of the best treatment alternative for construction of a new water treatment plant to replace the existing Fiveash WTP through warranty period, including decommissioning. Work is under way on a task order for oversight of the City's selected P3 contractor during investigation, study, testing, and commencement phases of the Prospect wellfield and as-needed technical services (Phase 1 - Program/Project Development). As-needed services include attending meetings, reviewing or establishing design standards and/or general standards to be used throughout the project, and reviewing and evaluating documents prepared by others. 	
Relevance/Team	<ul style="list-style-type: none"> Owner's Representative services including oversight of D-B projects, design management, and CM for Design-Bid-Build Evaluated and recommended project delivery method for various projects Development of Design-Build Bridging documents Startup and operational services Design-build contract management Design reviews Construction inspections Team Members: Patricia Carney, PE, DBIA - Design-Build Project Advisor 		<ul style="list-style-type: none"> Owner's Representative services Hazen serves as an extension of City staff and acts as the City's representative and liaison between the entity selected to build the WTP, the Design Team, Construction Contractor, regulatory agencies, and other stakeholders throughout the project. Hazen will coordinate all project matters during the planning, design, construction, commissioning, switchover, decommissioning, and close-out phases. Nanofiltration of the Biscayne Aquifer Design, cost, and schedule reviews Construction inspections Team Members: Janeen Wietgreffe, PE, PMP - Project Manager, George Brown, PE - Deputy Project Manager; Patricia Carney, PE, DBIA - Strategic Advisory Committee 	

The Hazen Team's Key Similar Projects (continued)

Project				
	Fort Lauderdale Sewer Design and Implementation Program (DB)		Miramar East WTP Improvements (PDB and Nano)	
Details	<p>Client Reference City of Fort Lauderdale, FL Omar Castellon, PE, PMP, ENV SP, (954) 828-5064, ocastellon@fortlauderdale.gov</p> <p>Project Start/End 12/2017-12/2026</p> <p>Project Fee \$12.6 million fee-to-date (ongoing or completed); \$26 million (anticipated overall fee)</p> <p>Project Value \$248 million</p> <p>Role Design Criteria Professional, Owner's Representative</p>		<p>Client Reference City of Miramar, FL Francois Domond, PE (954) 883-6813 fdomond@miramarfl.gov</p> <p>Project Start/End 06/2015-09/2019</p> <p>Project Fee \$78,800</p> <p>Project Value \$33.4 million</p> <p>Role Design Criteria Professional</p>	
Brief Description	<ul style="list-style-type: none"> Hazen selected to assist in managing the Consent Order (CO) Program to meet the aggressive schedule deadlines which includes completion of pipeline and pump station projects. Hazen serves as an Owner's Representative on the City's D-B procurement process for milestones/projects mandated by the CO. We helped to navigate the D-B procurement process, select and evaluate CO projects best suited for D-B delivery, provided extensive support during the contractor selection process and design and construction phases. Design-build contract management Design reviews Construction inspections Extension of staff 		<ul style="list-style-type: none"> Project consisted of upgrading the existing 4-mgd lime softening water treatment plant to a 6-mgd membrane softening treatment plant. Project consisted of four new production wells, one deep injection well, pretreatment equipment, nanofiltration equipment, post-treatment facilities, chemical feed systems, clearwell, and major building modifications as well as approximately 10,000 feet of yard piping. Hazen developed the design criteria used by the City to procure a design-builder to deliver this project via a progressive design-build project delivery method. 	
Relevance/Team	<ul style="list-style-type: none"> Program Manager/DCP for eight design-build projects, development and evaluation of design-build RFQs and RFPs, post-award design and construction support, owner's rep. Compressed timeline under CO deadline to develop key design-build components, including performance-based design criteria package Evaluated appropriate design delivery method for multiple projects, including project evaluation matrix to guide selection Management and oversight of multiple concurrent projects under the design-build delivery method Augmented City's staff with project managers and inspectors, to manage cost and schedule while completing internal reporting. Team Members: Patricia Carney, PE, DBIA - Project Manager; Orlando Castro, PE, DBIA - Task Manager 		<ul style="list-style-type: none"> Hazen served as the design criteria professional for a nanofiltration water treatment plant project being delivered via progressive design-build delivery. Hazen and the design-build team identified long lead permitting durations (notably the deep injection well) and developed creative prioritization of design elements to help expedite the permitting. Team Members: Janeen Wietgreffe, PE, PMP - Quality Control; Orlando Castro, PE, DBIA - Project Engineer 	


The Hazen Team's Key Similar Projects (continued)

Project	 	
Details	<p>Miami-Dade Ocean Outfall Legislation (OOL) Program</p> <p>Client Reference Miami-Dade Water and Sewer Department (WASD), FL James Ferguson, PE (786) 552-8756, James.Ferguson@miamidade.gov</p> <p>Role Owner's Representative as a subconsultant</p> <p>Project Start/End 2014-2026 (est.)</p> <p>Project Fee \$30 million (est.)</p> <p>Project Value \$2.55 billion (est.)</p>	<p>Biwater Fast Track Water System Facilities Design-Build Project (DB)</p> <p>Client Reference Biwater USA, Inc. Richard Smith (954) 987-6676, richard.smith@biwater.com</p> <p>Role Lead Designer on Design-Build Team</p> <p>Project Start/End 2003-2005 (design/construction)</p> <p>Project Fee \$4.5 million</p> <p>Project Value \$150 million</p>
Brief Description	<ul style="list-style-type: none"> Hazen shares responsibility for wastewater system master planning, as well as management of the overall delivery of a long-term program encompassing design, procurement, construction, and commissioning of major capital projects. The OOL Program is driven by a regulatory mandate from the Florida Legislature to dramatically reduce wastewater discharge to the Atlantic Ocean by 2025. Hazen used Envision as a master planning tool for the OOL Program, which validated and expanded upon the initial drivers for the master plan. The \$2.55 billion master planning program addressed implications of new state regulations, as well as threats of sea level rise and storm surge to their wastewater infrastructure. 	<ul style="list-style-type: none"> Hazen was retained by Biwater USA as design engineers for \$150 million of new water system facilities and upgrades in three urban service areas in the Dominican Republic. Hazen designed three water treatment plants: 23-mgd Mata Larga plant, 23-mgd La Romana plant, and 23-mgd San Cristobal plant. For two of the plants, the raw water is from impounded waters from hydroelectric dams. The Design-Build contract was a fast-track project to be completed within 24 months. Hazen commenced design before the contract start date to ensure timely completion. Hazen issued owner-furnished specifications and directly procured all major treatment equipment during the early design stage.
Relevance/Team	<ul style="list-style-type: none"> Evaluated and recommended project delivery method for various projects Serves as extension of staff Design reviews Master planning Designer/consultant management Document management and project management information system Team Members: Orlando Castro, PE, DBIA - Task Order Manager, Owner's Representative 	<ul style="list-style-type: none"> Fast-Track Design-Build Detailed design (three WTPs) Furnished specifications Directly procured all major treatment equipment during the early design stage Team Member: George Brown, PE - Project Engineer

The Hazen Team's Key Similar Projects (continued)

Project																
	Owner's Representative for Water Works Park Water Treatment Plant (DB)	MCC Jordan Compact: Owner's Rep. for Water and Wastewater Networks (DB)														
Details	<table><tr><td>Client Reference Great Lakes Water Authority (GLWA), MI (formerly Detroit Water & Sewerage Department) Cheryl Porter (313) 964-9390 Cheryl.Porter@glwater.org</td><td>Role Owner's Representative</td></tr><tr><td></td><td>Project Start/End 1998-2010</td></tr><tr><td></td><td>Project Fee \$10.7 million</td></tr><tr><td></td><td>Project Value \$275 million</td></tr></table>	Client Reference Great Lakes Water Authority (GLWA), MI (formerly Detroit Water & Sewerage Department) Cheryl Porter (313) 964-9390 Cheryl.Porter@glwater.org	Role Owner's Representative		Project Start/End 1998-2010		Project Fee \$10.7 million		Project Value \$275 million	<table><tr><td>Client Reference Millennium Challenge Corporation (MCC) Kumar Ranganathan, Senior Director, (202) 521-3674 ranganathannk@mcc.gov</td><td>Project Start/End 2011-2016 (design/construction)</td></tr><tr><td></td><td>Project Fee \$7.8 million</td></tr><tr><td>Role Joint Venture Partner</td><td>Project Value \$160 million</td></tr></table>	Client Reference Millennium Challenge Corporation (MCC) Kumar Ranganathan, Senior Director, (202) 521-3674 ranganathannk@mcc.gov	Project Start/End 2011-2016 (design/construction)		Project Fee \$7.8 million	Role Joint Venture Partner	Project Value \$160 million
Client Reference Great Lakes Water Authority (GLWA), MI (formerly Detroit Water & Sewerage Department) Cheryl Porter (313) 964-9390 Cheryl.Porter@glwater.org	Role Owner's Representative															
	Project Start/End 1998-2010															
	Project Fee \$10.7 million															
	Project Value \$275 million															
Client Reference Millennium Challenge Corporation (MCC) Kumar Ranganathan, Senior Director, (202) 521-3674 ranganathannk@mcc.gov	Project Start/End 2011-2016 (design/construction)															
	Project Fee \$7.8 million															
Role Joint Venture Partner	Project Value \$160 million															
Brief Description	<ul style="list-style-type: none">Hazen provided technical advisory services for the design/build/maintain (D/B/M) contract for a new 240-mgd water treatment plant at Water Works Park for GLWA.This project included bidder proposal evaluation and transaction advisory services, technical oversight during all phases of the D/B/M contract, construction oversight, construction contract administration, and owner's representation during operations.Hazen designed, constructed, and operated process pilot trains, which included flocculation, plate-settling, dissolved air flotation (DAF), intermediate ozonation, and filtration, and also developed the basis of design for the new plant.	<ul style="list-style-type: none">Hazen, in a Joint Venture with another firm, served as Owner's Representative for the US government's MCC Jordan Compact, a water and sanitation grant targeting one million residents in the Zarqa region of Jordan.Hazen provided design and construction management for the projects, including installation of over 1,000 km of water networks and wastewater collection systems.When the three bids received for the design-build contracts were \$70 million over budget, the Hazen team fast-tracked a design and repackaged the Design-Build project into six conventional construction contracts, creating a savings of \$16.4 million for MCC.With Hazen's owner's representative and design expertise, construction finished ahead of schedule and under budget														
Relevance	<ul style="list-style-type: none">Owner's RepresentativeBidder proposal evaluation and transaction advisory servicesTechnical oversight during all phases of the D/B/M contractConstruction oversightConstruction contract administrationOwner's representation during operationsBasis of designLed proposal evaluation processReview of D/B/M contractor's preliminary design packages	<ul style="list-style-type: none">Fast-track design-buildOwner's representative and construction management servicesApproximately 500 miles of water distribution pipelines and 200 miles of wastewater collection system pipelinesHazen managed the program effectively until the local governmental agency developed the necessary capacity to run and conclude the program.Team Member: George Brown, PE - Project Engineer														

The Hazen Team's Key Similar Projects (continued)

Project				
	Jupiter 14.5-mgd Nanofiltration Membrane Facility		Hallandale Beach 6-mgd Membrane Softening Facility (Nano)	
Details	Client Reference Town of Jupiter, FL David Brown, (561) 746-5134, davidb@jupiter.fl.us		Client Reference City of Hallandale Beach, FL Jeff Odoms, MA, FAEM, (954) 457-1669, JOdoms@ hallandalebeachfl.gov	
	Project Start/End 2005-2007 (design/ permitting); 2007-2010 (construction)		Project Start/End 2001-2004 (design/ permitting); 2005-2008 (construction)	
Brief Description	Role Prime (conceptual design, design, permitting, bidding, technical assistance during construction)		Role Prime	
	Project Fee \$2 million		Project Fee \$2 million	
Relevance/Team	Project Value \$37 million		Project Value \$16.6 million	
	<ul style="list-style-type: none"> Hazen provided design, permitting, and pilot testing oversight services for the 14.5-mgd Nanofiltration (NF) Membrane Facility (expandable to 17 mgd). The Town planned to add a NF membrane facility to produce potable water from the surficial aquifer. The NF treatment continues product water quality improvement and allows retirement of the lime softening treatment plant. Pre-design included preparation of 22 technical memoranda and a review of the Town's pilot testing data used to identify design parameters for the new NF membrane facility. The design included preparation of contract documents for construction of the NF membrane facility and ancillary facilities. The bid package included detailed design drawings and technical specifications. 		<ul style="list-style-type: none"> Hazen provided design, bidding, permitting, and construction management services to replace an equivalent volume of existing lime softening capacity at its water treatment plant and provide the required higher level of treatment for the Piccolo wellfield supply. Total build-out capacity of the new membrane facility will be 13 mgd, which includes up to 4 mgd of brackish water reverse osmosis treatment capacity. Hazen also completed the design, permitting, and construction oversight of the City's injection well. Pre-design activities for the project included preparation of 15 separate technical memoranda. This project won the 2008 Project of Year Award from the American Public Works Association. 	
Relevance/Team	<ul style="list-style-type: none"> Nanofiltration of the Biscayne Aquifer 22 Pre-Design Technical Memoranda Review of pilot testing data Design and contract documents Design reviews Technological innovation Separate contracts with prepurchase of equipment Nanofiltration of the Surficial Aquifer Team Members: Janeen Wietgreffe, PE, PMP - Project Manager and Process Mechanical Engineer; Jennifer McMahon, PE - Mechanical and Process Design Engineer; Joseph Franko, PE - Project Engineer; Jorge Atoche, PE - Pilot Testing 		<ul style="list-style-type: none"> Nanofiltration of the Biscayne Aquifer Conceptual and final design of alternatives Construction oversight Startup assistance and operational assistance Pilot testing "Drought proofed" facility by including provisions to add future RO skids for the Floridan Aquifer Team Members: Janeen Wietgreffe, PE, PMP - Project Manager; Jorge Atoche, PE - Project Engineer 	

The Hazen Team's Key Similar Projects (continued)

Project				
	East Water Treatment Plant 12-mgd Membrane Softening Plant Expansion (Nano)		Plantation Re-Membraning East and Central Water Treatment Plants (Nano)	
Details	Client Reference City of Plantation, FL Steve Ulrich, (954) 797-2779, SUrlich@Plantation.org		Client Reference City of Plantation, FL Steve Ulrich, (954) 797-2779, SUrlich@Plantation.org	
	Project Start/End 2002-2003		Project Start/End 2015-2016	
Brief Description	Project Fee \$565,790		Project Fee \$30,000	
	Project Value \$4.6 million		Project Value \$2.5 million	
Relevance/Team	<ul style="list-style-type: none"> Hazen designed the expansion of the 6-mgd membrane softening facility to the build-out treatment capacity of 12 mgd. Design services included the addition of three 2-mgd arrays, a third membrane booster pump, and addition of a permeate flushing system within the existing membrane building. Additionally, the design included the addition of a clear well, transfer pumps, and high service pumps. Hazen also provided permitting and construction management for this membrane plant expansion. Hazen completed startup of the facility, including meetings with the contractor to review responsibilities for the phased startup and compliance with regulatory agency reporting. 		<ul style="list-style-type: none"> Hazen performed a Water and Wastewater Systems Audit for the City and identified the energy savings potential of replacing aging, high-feed pressure membranes with lower pressure nanofiltration membrane elements at both the East WTP and the Central WTP. Subsequently, the City implemented a program to improve overall water quality and to reduce operation and maintenance costs. Hazen developed procurement documents to emphasize energy and chemical savings as a result of appropriate membrane selection. The membrane replacement resulted in energy savings of about 35%-45% at the EWTP and CWTP. The City maintained a high level of treatment throughout the project with no down time. 	
	<ul style="list-style-type: none"> Expansion of 6-mgd membrane softening facility to 12 mgd Designed high-service pumps (24 mgd) and transfer pumps during the membrane skid addition Permitting and construction management for membrane plant expansion Hazen designed expansion and pump replacement for the City to provide uninterrupted treatment and pumping into distribution system. Skid startups and pump startups occurred in parallel with existing operations. City did not experience any down time. Nanofiltration of the Biscayne Aquifer Construction inspections Team Members: Janeen Wietgreffe, PE, PMP - Project Manager; Jorge Atoche, PE - Project Engineer 		<ul style="list-style-type: none"> Hazen coordinated vendor qualifications, membrane pilot testing and data evaluation, performed calculations for full-scale membrane performance projections, post-treatment stabilization modifications, and conducted present worth evaluations for the membrane manufacturer selection. Hazen assisted the City in securing the services of a qualified membrane system supplier to perform replacement of the membranes in both facilities. Hazen ensured both the EWTP and CWTP maintained adequate treatment capacity throughout pilot testing and membrane replacement. Nanofiltration of the Biscayne Aquifer Team Members: Janeen Wietgreffe, PE, PMP - Project Manager; Jorge Atoche, PE - Project Engineer 	

The Hazen Team's Key Similar Projects (continued)

Project				
	City of Stuart Alternative Water Supply Plan		Hallandale Beach Reverse Osmosis Train Addition	
Details	Client Reference City of Stuart, FL David Peters, Public Works Director (772) 288-1292 dpeters@ci.stuart.fl.us		Client Reference City of Hallandale Beach, FL Jeff Odoms, MA, FAEM, (954) 457-1669, JOdoms@hallandalebeachfl.gov	
	Project Start/End 09/2017-05/2018 (AWS Plan)		Project Start/End 01/2016-12/2016	
Brief Description	Project Fee \$225,150		Project Fee \$500,600	
	Project Value \$16.5 million (estimated)		Project Value \$4.3 million	
Relevance/Team	Role Prime		Role Prime	
	<ul style="list-style-type: none"> Evaluation of raw water alternatives and development of conceptual design for Floridan wells, RO water treatment plant, including system configuration, pretreatment, post-treatment, and concentrate disposal Conceptual plan incorporates elements that provide flexibility for plant expansion Planning included construction cost estimating, phased implementation scheduling, bid package identifications, State Revolving Fund application assistance, and financial analysis of rate adjustment to fund the investment. 		<ul style="list-style-type: none"> Preliminary and detailed design services for the addition of a reverse osmosis skid to the existing membrane plant, including appurtenant pretreatment and chemical facilities. The NF plant was designed with space, piping and electrical provisions to add two 2.0 mgd (treated water capacity) brackish water RO (BWRO) trains in the future. Design of a third RO skid with a high level of flexibility since the City is still exploring future alternative water supply options. Development of highly complex and detailed sequence of construction to ensure maintenance of plant operations. 	
Relevance/Team	<ul style="list-style-type: none"> Recommendations for a sustainable alternative water supply that will allow the City meet the future finished water goals through the year 2040. Master planning for new Upper Floridan Aquifer water supply wells, reverse osmosis treatment facilities, concentrate disposal. Hazen developed an estimated cost of construction for alternative water supplies within the Floridan aquifer as well as operation and maintenance costs. Hazen developed a Project Implementation Plan, where bid packages were identified for different construction activities. Team Members: George Brown, PE - Project Manager; Monica Pazahanick, PE - Deputy Project Manager; Janeen Wietgreffe, PE, PMP - Project Engineer 		<ul style="list-style-type: none"> Developed detailed design drawings, developed specifications, and multi-disciplinary coordination BWRO train designed with the flexibility to treat any of the following raw water sources individually: existing Biscayne Aquifer supply from City wells PW-7 and 8, future Biscayne Aquifer City well PW-9, existing Biscayne Aquifer supply from BCRWS, and future supply from upper Floridan aquifer wells Planned flexibility for various (individual) water sources Team Members: Janeen Wietgreffe, PE, PMP - Process Mechanical Engineer; Jennifer McMahon, PE - Project Manager and Lead Design Engineer; George Brown, PE - Project Engineer; Jorge Atoche, PE - Project Engineer 	

8

Attachments
(submitted online)



Hazen

Supplier Response Form

ACKNOWLEDEMENT OF ADDENDA

INSTRUCTIONS COMPLET PART I OR PART II, WHICHEVER APPLIES

PART I

List below the dates of issue for addendum received in connection with this solicitation.

Addendum #1, Dated	June 2, 2022
Addendum #2, Dated	
Addendum #3, Dated	
Addendum #4, Dated	
Addendum #5, Dated	
Addendum #6, Dated	
Addendum #7, Dated	
Addendum #8, Dated	
Addendum #9, Dated	
Addendum #10, Dated	

PART II

☐ NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THE SOLICITATION

Hazen and Sawyer
Firm Name

Janeen Wietgreffe
Signature

Janeen Wietgreffe, PE, PMP, Vice President
Name and Title

6/24/2022
Date

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Username **jforgione@hazenandsawyer.com**

Password *

* Required fields

Supplier Response Form

CONFLICT OF INTEREST DISCLOSURE FORM

The award of this contract is subject to the provisions of Chapter 112, *Florida Statutes*. All Bidders/Proposers must disclose within their Bid/Proposal: the name of any officer, director, or agent who is also an employee of the City of Delray Beach.

Furthermore, all Bidders/Proposers must disclose the name of any City employee who owns, directly or indirectly, an interest of more than five percent (5%) in the Bidder's/Proposer's firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for evaluation team members and other key personnel involved in the award of this contract.

The term "conflict of interest" refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee's professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

Please check one of the following statements and attach additional documentation if necessary:



To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other Cities, Counties, contracts, or property interest for this Bid/Proposal.



The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other Cities, Counties, contracts, or property interest for this Bid/Proposal.

Acknowledged by:

Firm Name

Signature

Name and Title

Date

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Password *

Save

[Take Exception](#)

[Close](#)

* Required fields

Supplier Response Form

DRUG-FREE WORKPLACE

Hazen and Sawyer

 is a drug-free workplace and has
(Company Name)
a substance abuse policy in accordance with and pursuant to Section 440.102, *Florida Statutes*.

Acknowledged by:

Hazen and Sawyer

Firm Name

Janeen Wietgreffe, PE, PMP, Vice President

Signature

Janeen Wietgreffe, PE, PMP, Vice President

Name and Title

6/24/2022

Date

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[Take Exception](#)

[Close](#)

* Required fields

Supplier Response Form

NON-COLLUSION AFFIDAVIT

STATE OF Florida

COUNTY OF Broward

Before me, the undersigned authority, personally appeared Janeen Wietgreffe, PE, PMP, Vice President, who, after being by me first duly sworn, deposes and says of his/her personal knowledge that:

- a. He/She is Vice President of Hazen and Sawyer, the Bidder/Proposer that has submitted a Bid/Proposal to perform work for the following:

Solicitation No.: RFQ 2022-034 Title: Owner's Representative for Design-Build Construction Proje

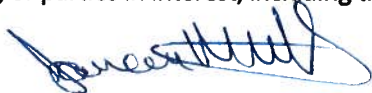
- b. He/She is fully informed respecting the preparation and contents of the attached solicitation, and of all pertinent circumstances respecting such solicitation.

Such Bid/Proposal is genuine and is not a collusive or sham Bid/Proposal.

- c. Neither the said Bidder/Proposer nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other Bidder/Proposer, firm, or person to submit a collusive or sham Bid/Proposal in connection with the solicitation and contract for which the attached Bid/Proposal has been submitted or to refrain from proposing in connection with such solicitation and contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder/Proposer, firm, or person to fix the price or prices in the attached Bid/Proposal or any other Bidder/Proposer, or to fix any overhead, profit, or cost element of the Bid/Proposal price or the Bid/Proposal price of any other Bidder/Proposer, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City or any person interested in the proposed contract.

- d. The price or prices quoted in the attached Bid/Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Bidder/Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Janeen Wietgreffe, PE, PMP
Signature



Subscribed and sworn to (or affirmed) before me this 23rd day of June 20 2022 by
Janeen Wietgreffe, PE, PMP, who is personally known to me or who has produced
N/A as identification.

SEAL



Notary Signature:

Notary Name: Mary Perez

Notary Public (State): Florida

My Commission No: HH 232289

Expires on: February 22, 2026

Supplier Response Form

NOTIFICATION OF PUBLIC ENTITY CRIMES LAW

Pursuant to Section 287.133, *Florida Statutes*, you are hereby notified that a person or affiliate who has been placed on the convicted contractors list following a conviction for a public entity crime may not submit a Bid/Proposal on a contract to provide any goods or services to a public entity; may not submit a Bid/Proposal on a contract with a public entity for the construction or repair of a public building or public work; may not submit Bids/Proposals on leases or real property to a public entity; may not be awarded or perform work as a contractor, supplier, sub-Bidder/sub-Proposer, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 [F.S.] for Category Two [\$35,000.00] for a period of thirty-six (36) months from the date of being placed on the convicted contractors list.

Acknowledged by:

Hazen and Sawyer

Firm Name

Janeen Wietgreffe, PE, PMP

Signature

Janeen Wietgreffe, PE, PMP, Vice Pi

Name and Title

06/24/2022

Date

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Password *

Save

[Take Exception](#)

[Close](#)

* Required fields

Supplier Response Form

Notification of Public Records Law Pertaining to Public Contracts and Requests for Contractor Records Pursuant to Chapter 119, *Florida Statutes*

Pursuant to Chapter 119, *Florida Statutes*, Contractor shall comply with the public records law by keeping and maintaining public records required by the City of Delray Beach in order to perform the service. Upon request from the City of Delray Beach' custodian of public records, contract shall provide the City of Delray Beach with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, *Florida Statutes* or as otherwise provided by law. Contractor shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract. If the Contractor does not transfer the records to the City of Delray Beach. Contractor upon completion of the contract, shall transfer, at no cost, to the City of Delray Beach all public records in possession of the Contractor or keep and maintain public records required by the City of Delray Beach in order to perform the service. If the Contractor transfers all public records to the City of Delray Beach upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City of Delray Beach, upon request from the City of Delray Beach' custodian of public records, in a format that is compatible with the information technology systems of the City of Delray Beach.

IF THE SELECTED BIDDER/PROPOSER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE SELECTED BIDDER'S/PROPOSER'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY OF DELRAY BEACH, CITY CLERK, 100 N.W. 1ST AVE., DELRAY BEACH FLORIDA. THE CITY CLERK'S OFFICE MAY BE CONTACTED BY PHONE AT 561-243-7050 OR VIA EMAIL AT CITYCLERK@MYDELRAYBEACH.COM.

Acknowledged:

Hazen and Sawyer

Firm Name

Janeen Wietgreffe, PE, PMP

Signature

Janeen Wietgreffe, PE, PMP, Vice Pi

Name and Title (Print or Type)

06/24/2022

Date

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Password *

Save

[Take Exception](#)

[Close](#)

* Required fields

**SECTION 11
SOLICITATION SUMMARY**

The City of Delray Beach
100 NW 1st Street
Delray Beach, FL 33444

PURCHASING DEPARTMENT

SOLICITATION SUMMARY**IMPORTANT NOTICE**

The information you provide on this page will be read aloud at the PUBLIC OPENING for this Solicitation. It is VERY IMPORTANT that the summary information you provide below is exactly the same information contained in your Proposal. If subsequent to the opening of Proposals, the City determines that the information contained in the electronic version of your Proposal is different from the information on this Solicitation Summary, the City reserves the right to deem your Proposal NON-RESPONSIVE and remove your Proposal from further evaluation and consideration for contract award.

PROPOSAL INFORMATION

Proposal Number: RFQ No. 2022-034

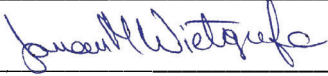
Title: Owners' Representative for New Water Treatment Plant and Related Improvements

Due Date and Time: June 24, 2022, 2:00 P.M., EST

Name of Proposer: Hazen and Sawyer

Address: 2101 N.W. Corporate Blvd., Suite 301, Boca Raton, FL 33431

Contact Person: Janeen Wietgreffe, PE, PMP, Associate Vice President

Authorized Signature: 

Date: 06/24/2022

By signing and submitting this Solicitation Summary, the Proposer affirms that the information provided above is an exact and correct summary of the information contained in the electronic version of the Proposer's Proposal to the City of Delray Beach.

THIS SOLICITATION SUMMARY MUST BE SIGNED AND INCLUDED AS AN ORIGINAL HARDCOPY IN THE ENVELOPE CONTAINING YOUR PROPOSAL OR SIGNED AND INCLUDED WITH YOUR SECURE ELECTRONIC PROPOSAL SUBMITTAL THROUGH WWW.BIDSYNC.COM.

Supplier Response Form

BID/PROPOSAL SUBMITTAL

This form is part of your original Bid/Proposal submittal package. Please also attach any additional information or documentation requested in this solicitation. There is no need to include the informational sections of this solicitation in your Bid/Proposal submittal package.

INSTRUCTIONS

Sealed Bids/Proposals must be received on or before the due date and time (local time) via electronic submission at www.bidsync.com, or via hard copy at the City of Delray Beach City Hall Front Lobby Reception Desk, 100 N.W. 1st Avenue, Delray Beach, Florida 33444. Normal City business hours are 8:00 AM to 5:00 PM, Monday through Friday, except holidays. **All Bids/Proposals will be publicly opened** at City Hall unless otherwise specified.

Each hard copy Bid/Proposal submitted to the City shall have the following information clearly marked on the face of the envelope: Bidder's/Proposer's name, return address, solicitation number, due date for Bids/Proposals, and the title of the solicitation. If the Solicitation Summary is not included in the package, the City may deem the Bid/Proposal non-responsive. Bids/Proposals must contain all information required to be included in the submittal, as described in this Solicitation.

Solicitation No.:

RFQ 2022-034

Solicitation Title:

Owner's Representative for Design-Build

Due Date and Time:

June 24, 2022, 2 PM

Hazen and Sawyer

Name of Bidder/Proposer

Please enter your password below and click Save to save your response.

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Username **jforgione@hazenandsawyer.com**

Password *

Save

[Take Exception](#)

[Close](#)

* Required fields

SUBMITTAL SIGNATURE PAGE

By signing this document, the Bidder/Proposer certifies that it satisfies all legal requirements as an entity to c
City, including all Conflict of Interest and Code of Ethics provisions.

Firm Name: Hazen and Sawyer

Street Address: 2101 N.W. Corporate Boulevard, Suite 301, Boca Raton, FL

Mailing Address (if different from Street Address): N/A

Telephone Number(s): (561) 997-8070

Fax Number(s): N/A

Email Address: jwietgreffe@hazenandsawyer.com

Federal Employer Identification Number: 13-2904652

Prompt Payment Terms: 0 % N/A days' net 30 days

Signature: Janeen Wietgreffe, PE, PMP

(Signature of authorized agent)

Print Name: Janeen Wietgreffe, PE, PMP

Title: Vice President

Date: 06/24/2022

By signing this document, the Bidder/Proposer agrees to all terms and conditions of this solicitation contract/agreement.

**THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF BIDDER/PROPOSER TO BE BOI
OF ITS BID/PROPOSAL, FOR NOT LESS THAN 90 DAYS, AND THE BIDDER'S/PROPOSER'S UNEQUIVOCAL OFFE
THE TERMS AND CONDITIONS SET FORTH IN THIS SOLICITATION. FAILURE TO SIGN THIS SOLICITATION
ABOVE, BY AN AUTHORIZED REPRESENTATIVE, SHALL RENDER THE BID/PROPOSAL NON-RESPONSIVE
HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY BID/PROPOSAL THAT INCLUDES AN EXECUTED D
UNEQUIVOCALLY BINDS THE BIDDER/PROPOSER TO THE TERMS OF ITS BID/PROPOSAL.**

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[Take Exception](#)

[Close](#)

* Required fields

Supplier Response Form

Scrutinized Company Certification

This certification is required pursuant to Florida State Statute Section 287.135.

As of July 1, 2011, a company that, at the time of bidding or submitting a proposal for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List is ineligible for, and may not bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1 million or more.

Companies must complete and return this form with its response.

Company. FID or EIN No.

Address.

City. State. Zip.

I, , as a representative of certify and affirm that this company is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Signature

Printed Name

Title

Date

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Password *

Save

Take Exception

Close

* Required fields

Supplier Response Form

TRUTH – IN – NEGOTIATION CERTIFICATE

The undersigned warrants (i) that it has not employed or retained any company or person, other than bona fide employees working solely for the undersigned, to solicit or secure the Agreement and (ii) that it has not paid or agreed to pay any person, company, corporation, individual, or firm other than its bona fide employees working solely for the undersigned or agreed to pay any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of the Agreement.

The undersigned certifies that the wage rates and other factual unit costs used to determine the compensation provided for in the Agreement are accurate, complete, and current as of the date of the Agreement.

Name:	Hazen and Sawyer, Janeen Wietgreffe, PE
Title:	Vice President
Date:	06/24/2022
Signature:	Janeen Wietgreffe

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Take Exception

Close

* Required fields



Hazen

Hazen

Hazen and Sawyer
2101 NW Corporate Boulevard, Suite 301 • Boca Raton, FL 33431