



City of Port St. Lucie  
Procurement Management Division  
121 SW Port St. Lucie Blvd., Port St. Lucie, FL 34984

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**[HAZEN AND SAWYER] RESPONSE DOCUMENT REPORT**

RFP No. 20250065

Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

RESPONSE DEADLINE: March 11, 2025 at 3:00 pm

Report Generated: Monday, June 16, 2025

**Hazen and Sawyer Response**

**CONTACT INFORMATION**

**Company:**

Hazen and Sawyer

**Email:**

[jforgione@hazenandsawyer.com](mailto:jforgione@hazenandsawyer.com)

**Contact:**

Julie Forgione

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4000 Hollywood Blvd., Suite 750N  
Hollywood, FL 33021

**Phone:**

N/A

**Website:**

<https://www.hazenandsawyer.com/>

**Submission Date:**

Mar 11, 2025 11:45 AM (Eastern Time)

## ADDENDA CONFIRMATION

Addendum #1

*Confirmed Mar 4, 2025 9:22 AM by Julie Forgione*

Addendum #2

*Confirmed Mar 4, 2025 9:22 AM by Julie Forgione*

## QUESTIONNAIRE

### 1. Mandatory Forms

PROPOSAL UPLOAD\*

Submittal\_Hazen\_and\_Holtz\_RFP\_20250065\_Owner's\_Rep\_for\_D-B\_Project\_for\_New\_WTP.pdf

CONTRACTOR'S GENERAL INFORMATION WORKSHEET\*

It is understood and agreed that the following information is to be used by the City to determine the qualifications of prospective Contractor to perform the work required. The Contractor waives any claim against the City that might arise with respect to any decision concerning the qualifications of the Contractor.

The undersigned attests to the truth and accuracy of all statements made on this questionnaire. Also, the undersigned hereby authorizes any public official, Engineer, Surety, bank, material or equipment manufacturer, or distributor, or any person, firm or corporation to furnish the City any pertinent information requested by the City deemed necessary to verify the information on this questionnaire.

Please download the below documents, complete, and upload.

- [Consultant's General Inform...](#)

01\_Consultant's\_General\_Information\_Worksheet\_20250065-rev\_PDF\_of\_Word\_doc.pdf

E-VERIFY FORM \*

Please download the below documents, complete, and upload.

- [E-Verify Form.pdf](#)

02\_E-Verify\_Form\_notarized.pdf

NON-COLLUSION AFFIDAVIT\*

Please download the below documents, complete, and upload.

- [Non-Collusion Affidavit-202...](#)

03\_Non-Collusion\_Affidavit-20250065\_notarized.pdf

DEBARMENT FORM\*

Please download the below documents, complete, and upload.

- [Debarment form-20250065.pdf](#)

04\_Debarment\_Forms\_Hazen\_and\_Holtz.pdf

TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT

Please download the below documents, complete, and upload.

- [Truth-In-Negotiation-fillab...](#)

06\_Truth-In-Negotiation\_revised\_notarized.pdf

## 2. Electronic Confirmation

CONE OF SILENCE \*

To ensure fair consideration is given for all Proposers, it must be clearly understood that upon release of the proposal and during the proposal process, firms and their employees of related companies as well as paid or unpaid personnel acting on their behalf shall not contact or participate in any type of contact with City employees, department heads or elected officials, up to and including the Mayor and City Council. The "Cone of Silence" is in effect for this solicitation from the date the solicitation is advertised on the

OpenGov Portal, until the time an award decision has been approved by City Council and fully executed by all parties. Information about the Cone of Silence can be found under the City Code of Ordinances, Section 35.13. Contact with anyone other than the Issuing Officer may result in the vendor being disqualified. All contact must be coordinated through the Issuing Officer, for the procurement of these services.

Confirmed

#### DRUG FREE WORKPLACE\*

The undersigned Contractor in accordance with section 287.087, Florida Statutes, hereby certifies that they comply fully with the below requirements.

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

Confirmed



#### CONTRACTOR'S CODE OF ETHICS\*

The City of Port St Lucie ("City"), through its Procurement Management Division ("Procurement Management Division") is committed to a procurement process that fosters fair and open competition, is conducted under the highest ethical standards and enjoys the complete confidence of the public. To achieve these purposes, Procurement Management Division requires each vendor who seeks to do business with the City to subscribe to this Contractor's Code of Ethics.

- ◆ A Contractor's bid or proposal will be competitive, consistent and appropriate to the bid documents.
- ◆ A Contractor will not discuss or consult with other Vendors intending to bid on the same Contract or similar City Contract for the purpose of limiting competition. A Vendor will not make any attempt to induce any individual or entity to submit or not submit a bid or proposal.
- ◆ Contractor will not disclose the terms of its bids or proposal, directly or indirectly, to any other competing Vendor prior to the bid or proposal closing date.
- ◆ Contractor will completely perform any Contract awarded to it at the contracted price pursuant to the terms set forth in the Contract.
- ◆ Contractor will submit timely, accurate and appropriate invoices for goods and/or services actually performed under the Contract.
- ◆ Contractor will not offer or give any gift, item or service of value, directly or indirectly, to a City employee, City official, employee family member or other vendor contracted by the City.
- ◆ Contractor will not cause, influence or attempt to cause or influence, any City employee or City Official, which might tend to impair his/her objectivity or independence of judgment; or to use, or attempt to use, his/her official position to secure any unwarranted privileges or advantages for that Vendor or for any other person.
- ◆ Contractor will disclose to the City any direct or indirect personal interests a City employee or City official holds as it relates to a Vendor contracted by the City.
- ◆ Contractor must comply with all applicable laws, codes or regulations of the countries, states and localities in which they operate. This includes, but is not limited to, laws and regulations relating to environmental, occupational health and safety, and labor practices. In addition, Contractor must require their suppliers (including temporary labor agencies) to do the same. Contractor must conform

their practices to any published standards for their industry. Compliance with laws, regulations and practices include, but are not limited to, the following:

- o Obtaining and maintaining all required environmental permits. Further, Contractor will endeavor to minimize natural resource consumption through conservation, recycling and substitution methods.
- o Providing workers with a safe working environment, which includes identifying and evaluating workplace risks and establishing processes for which employee can report health and safety incidents, as well as providing adequate safety training.
- o Providing workers with an environment free of discrimination, harassment and abuse, which includes establishing a written antidiscrimination and anti-bullying/harassment policy, as well as clearly noticed policies pertaining to forced labor, child labor, wage and hours, and freedom of association.

DISCLAIMER: This Code of Ethics is intended as a reference and procedural guide to Contractors. The information it contains should not be interpreted to supersede any law or regulation, nor does it supersede the applicable Contractor Contract. In the case of any discrepancies between it and the law, regulation(s) and/or contractor contract, the law, regulatory provision(s) and/or vendor contract shall prevail.

Confirmed

AFFIDAVIT OF NONGOVERNMENT ENTITY ANTI-HUMAN TRAFFICKING LAWS\*

In accordance with section 787.06(13), Florida Statutes, the representative of the nongovernmental entity bidder ("Entity"), attests under penalty of perjury that the Entity does not use coercion for labor or services as defined in section 787.06.

Confirmed

I CERTIFY THAT I HAVE READ, UNDERSTOOD AND AGREE TO THE TERMS IN THIS SOLICITATION, AND THAT I AM AUTHORIZED TO SUBMIT THIS RESPONSE ON BEHALF OF MY COMPANY.\*

Confirmed



# Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

RFP No. 20250065 | March 11, 2025



**Hazen**





# Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

RFP No. 20250065 | March 11, 2025

Hazen and Sawyer

Kurt Pfeffer, PE

Associate Vice President/Proposed Project Director

2101 NW Corporate Boulevard, Suite 301

Boca Raton, FL 33431

(561) 314-2446 | [kpfeffer@hazenandsawyer.com](mailto:kpfeffer@hazenandsawyer.com)



**Hazen**

March 11, 2025

City of Port St. Lucie  
Electronic Request for Proposals (“eRFP”)  
Attention: Keith Stewart, Senior Procurement Contracting Officer

**Re: RFP No. 20250065, Owner’s Representative for Design-Build Project for New Water Treatment Plant and Related Improvements**

Dear Selection Committee Members:

The City of Port St. Lucie (City) is embarking on a critical 10-mgd water treatment plant to address water demand due to recent growth in the City. To deliver this project, the City has decided to use a progressive design-build (PDB) project delivery model. The Hazen and Sawyer (Hazen) team brings a wealth of experience and a proven track record in successfully guiding complex projects from inception to completion. We understand the unique challenges and opportunities that PDB projects present, and we are committed to leveraging our expertise to ensure the City’s vision is realized efficiently and effectively. With our collaborative approach, innovative solutions, and unwavering dedication to excellence, we are confident that we can provide the strategic guidance and support necessary to deliver the new water treatment plant.

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



**National and Local Owner’s Advisor/Representative Expertise:** With over 25 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. Our team’s expertise with PDB will ensure the City has an advocate for them to help through this project delivery.



**Unmatched Knowledge of Water Supply and Treatment in Florida:** The Hazen team has designed, conceptualized, and/or improved operational performance for over 33 membrane plants in Florida. Furthermore, with our extensive experience working with municipal clients to modify existing plants, we understand the challenges that may occur in the design of membrane plants and will bring these lessons learned to your project. Our team consists of local membrane experts with unmatched planning, design, operations, and troubleshooting/optimization experience but with an understanding of the key issue: water supply planning. Hazen’s experts have extensive experience in the aquifers of Florida, including hydrogeology and water supply permitting. This experience will provide the project team with lessons learned and innovative ideas resulting in cost-savings solutions. Further, we are proven technological innovators—**Hazen designed split feed 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 technological advancements and in applied research and will leverage these resources for this project.



**Trusted Partner with Knowledge of Port St. Lucie:** Hazen has partnered with Holtz Consulting Engineers (HCE) to serve as part of the Owner’s Representative team. HCE brings a strong understanding of the City’s needs, working as one of the City’s continuing engineers for the past six years, and serving as the City’s trusted advisor. Currently, the Hazen-HCE team is serving in the same capacity as the Construction Engineering and Inspection (CEI) firm for

the expansion of the Westport Wastewater Treatment Facility. Our role is to be the City's advocate—guiding you through the process, negotiating favorable terms, and making sure you stay in the driver's seat. We have successfully done this for other municipalities, and will do the same for Port St. Lucie.

Our team is led by **Kurt Pfeffer, PE, our proposed Project Director**, who brings 38 years of expertise guiding municipal water and wastewater projects from design through construction across Florida. In the past 15 years, he has successfully managed and delivered over \$550 million in water and wastewater treatment infrastructure, including reverse osmosis facilities and collaborative delivery projects.

Our proposed **Project Manager, Orlando Castro, PE, DBIA**, has served as the Owner's Representative for many clients throughout the country, including the City of Delray Beach Membrane Water Treatment Plant Progressive Design-Build project, the Orange County Sanitation District (CA) Progressive Design-Build Program, the New York City DEP Design-Build Pilot Program, and the City of Fort Lauderdale 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 our **Deputy Project Manager, Curtis Robinson, PE**, who has been involved in over 40 water and wastewater design-build projects in South Florida, including serving in the Owner's Representative role. He serves as one of the Client Service Managers for HCE's continuing engineering contract with the City and is familiar with your staff, standards, and goals for this project. He works in HCE's Stuart office and will provide a local presence to serve the City.

We appreciate your thoughtful consideration of our proposal and are available to provide any additional information you may need. If you have any questions, please contact Kurt Pfeffer at (561) 314-2446 or [kpfeffer@hazenandsawyer.com](mailto:kpfeffer@hazenandsawyer.com), or Orlando Castro at (561) 997-8070 or [ocastro@hazenandsawyer.com](mailto:ocastro@hazenandsawyer.com).

Very truly yours,



Kurt Pfeffer, PE  
Associate Vice President/Proposed Project Director



Orlando Castro, PE, DBIA  
Associate Vice President/Proposed Project Manager





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Mandatory Forms

- Contractor’s General Information Worksheet
- E-Verify Form
- Non-Collusion Affidavit
- Debarment Form
- Truth-In-Negotiation Certificate and Affidavit
- Copy of W-9



# 1

## Executive Summary





# 1 Executive Summary

To ensure the successful completion of the City of Port St. Lucie's new water treatment plant, effective collaboration and clear communication between all project stakeholders will be crucial.

## Establishing a Successful Working Relationship

The success of this project depends on a strong, collaborative working relationship between all stakeholders. In the following Q&A, our proposed Project Manager, Orlando Castro, PE, DBIA, and Deputy Project Manager, Curtis Robinson, PE, outline their approach to fostering seamless coordination, proactive problem-solving, and clear communication. We recognize the unique complexities of progressive design-build projects and are committed to leveraging our expertise to align with the City's vision. By combining technical excellence, innovative solutions, and a partnership-driven mindset, we will ensure efficient project delivery and exceptional results.

## Beyond the Blueprint

# A SEAMLESS PARTNERSHIP

for Port St. Lucie's  
Water Treatment Plant

We sat down with  
**Project Manager  
Orlando Castro** and  
**Deputy Project Manager  
Curtis Robinson**

for an in-depth conversation about why this project is critical for the City of Port St. Lucie and how their partnership will ensure its success. From risk mitigation to cost efficiency, they share their insights on how Hazen and HCE will guide the City through the complexities of delivering a new water treatment plant.

**Q How will Hazen and HCE work together to ensure the City's success on this project?**

**Orlando Castro, Hazen:**

"Strong partnerships lead to strong projects, and our team is built on trust, collaboration, and a shared commitment to the City's success. Hazen provides the big-picture leadership and technical expertise to ensure the project stays on track, while HCE brings deep local knowledge and hands-on support. Together, we're a seamless extension of the City's team, ensuring every decision and every step is aligned with their needs."

**Curtis Robinson, HCE:**

"The City knows HCE, and we know the City. Since 2019, we've worked hand in hand, so we're not starting from square one—we're continuing a successful partnership. With Hazen's leadership and our local insights, we ensure the City gets the best of both worlds—national expertise with a hometown touch."

**Q What are the biggest risks in delivering this design-build project, and how will you help the City mitigate these risks?**

**Orlando:**

"With design-build, the key challenges are managing risk, maintaining control over

costs, and ensuring quality while keeping up with an aggressive schedule. Our role is to be the City's advocate—guiding them through the process, negotiating favorable terms, and making sure they stay in the driver's seat. We've successfully done this for other municipalities, and we'll do the same for Port St. Lucie."

**Curtis:**

"One of the biggest risks is the unknown—surprises in permitting, unexpected site conditions, or supply chain issues. But because we've been working with the City for years, we can anticipate many of these challenges before they happen. We're proactive, not reactive, and that means fewer delays, fewer headaches, and a more efficient project overall."

# Beyond the Blueprint

## Q How will your team help the City make informed, confident decisions throughout the project?

### Orlando:

"One of our guiding principles is transparency. The City will never be left guessing or forced to make decisions without clear information. We break down complex technical issues into real-world impacts—what it means for budgets, schedules, and operations—so the City has everything they need to make the best choice every time."

### Curtis:

"And we know how the City likes to operate. We've built a strong working relationship, and that means we tailor our recommendations in a way that fits their needs. No unnecessary details, no wasted time—just the right information to keep things moving smoothly."

## Q Can you share an example of how Hazen and HCE have successfully worked together on past projects?

### Orlando:

"There is actually a very current example where we can show how we have worked together to help the City. Hazen and HCE are serving as CEI for expansion of the City's Westport WWTF. During execution of our CEI services, the City requested that the Hazen/HCE team assist in renewing the plant's operating permit."

### Curtis:

"The plant's operating permit was expiring in less than 2 months. HCE and Hazen quickly assembled a team to

address the items needed for the permit. We are currently on schedule to meet the March 10th deadline."

## Q What steps will you take to ensure strong communication between your firms and the City?

### Orlando:

"Effective communication isn't about overwhelming people with information—it's about delivering the right updates at the right time. We'll have structured check-ins and clear action plans, so the City always knows where things stand without getting bogged down in the details."

### Curtis:

"Because I've worked with the City for years, we already have a natural communication rhythm. We understand who needs to be looped in on what, so we're always aligned and working efficiently."

## Q How will your teamwork contribute to cost efficiency and risk mitigation for the City?

### Orlando:

"No surprises—that's our philosophy. We will start with developing a cost and schedule loaded risk register that will identify the risks early on. Once the Design-Builder is on board, this will lead to form the GMP contingencies, which we will review to ensure the right costs are being tracked for the project risks."

### Curtis:

"Being transparent and open about potential risks early helps develop mitigation strategies. We will work alongside Hazen to develop the cost and schedule impacts to these risks and review the ones prepared by the design-builder to ensure the GMP is covered for these unknowns."



Hazen and HCE are serving as CEI for expansion of the City's Westport WWTF.



## Key Elements of the Proposal

The following provides an overview of the key sections of this proposal. Additional details relative to all items summarized here can be found throughout the balance of the proposal.

### Section 2 Qualifications and Personnel Experience

The following items are provided in this section:

- Firm Qualifications & Experience
- Key Personnel – Resumes
- Licenses & Certifications
- Subcontractors
- Organizational Chart



**Kurt Pfeffer, PE**  
Project Director



**Orlando Castro, PE, DBIA**  
Project Manager



**Curtis Robinson, PE**  
Deputy Project Manager



**Monica Pazahanick, PE**  
Pre-Construction Phase  
Support Lead



**Stephen Fowler, PE, GCG**  
Construction Phase  
Support Lead



**Patricia Carney, PE, DBIA**  
Technical Advisor

### Section 3 Owner's Representative Experience

The following items are provided in this section:

- Detailed qualifications of Hazen's Owner's Representative Experience
- Similar projects that have been completed and/or ongoing in the past 10 years (see table below)

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 RFP.

| Project  | Role                           | Delivery Method | Owner's Rep. | Design Criteria Professional | Membrane WTP |
|--|--------------------------------|-----------------|--------------|------------------------------|--------------|
| City of Delray Beach - Owner's Representative for Design-Build Construction of New WTP   | Prime                          | PDB             | •            | •                            | •            |
| City of Fort Lauderdale - Owner's Representative for Prospect Lake Clean Water Center  | Prime                          | FPDB            | •            | •                            | •            |
| NYCDEP, Upstate New York - AEI-UPS: Design-Build Pilot Program for Upstate Infrastructure Projects                                     | Prime                          | FPDB            | •            | •                            | •            |
| Orange County Sanitation District, Orange County, CA - Owner's Advisor Services  | Prime                          | PDB             | •            | •                            | •            |
| Hampton Roads Sanitation District, VA - Sustainable Water Initiative for Tomorrow (SWIFT) Full-Scale Implementation Program Management | Program Management Team Member | FPDB            | •            | •                            |              |
| City of Fort Lauderdale - Sewer Design and Implementation Program  | Prime                          | FPDB            | •            | •                            |              |
| City of West Melbourne New Water Treatment Plant Feasibility Analysis and Design, and Test/Production Well                             | Prime                          | DBB             |              |                              | •            |
| City of Hallandale Beach - Reverse Osmosis Train Addition  | Prime                          | DBB             |              |                              | •            |
| City of Miramar - East WTP Improvements  | Prime                          | PDB             | •            | •                            | •            |

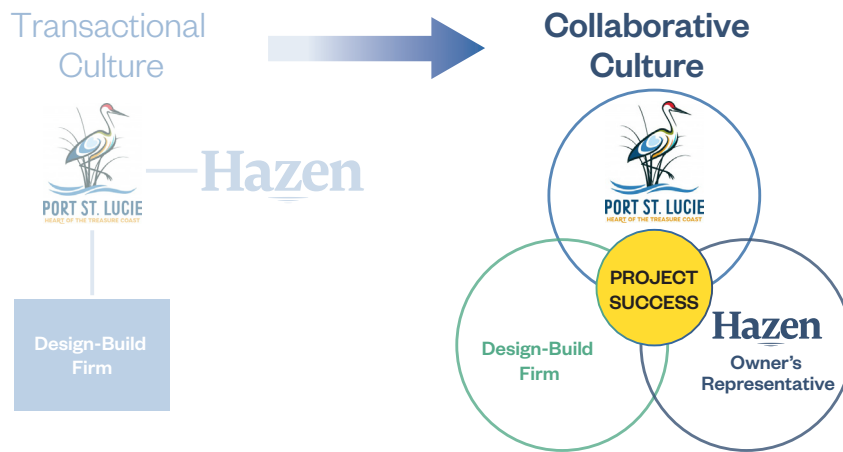
**Legend:** PDB: Progressive Design-Build, FPDB: Fixed-Price Design-Build, DBB: Design-Bid-Build

## Section 4 Methodology/Approach

The following items are provided in this section:

Our team's approach and methodology to successfully complete this project is detailed in this section.

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



The Hazen team provides the right approach and methodology to serve as the City's Owner's Representative and to help deliver the Progressive Design-Build Water Treatment Plant project.

## Section 5 Certified Minority Business Enterprise

The following item is provided in this section:

- Information (including copies of MBE certificates) for our MBE subconsultant partner, Holtz Consulting Engineers.

# 2

## Qualifications and Personnel Experience



## 2 Qualifications and Personnel Experience

Hazen offers unmatched expertise in Florida's water supply and membrane treatment, with experience in 33 membrane plants statewide. We specialize in optimizing facilities, navigating hydrogeology and permitting, and applying innovative solutions. As leaders in applied research, we deliver proven strategies for project success.

In compliance with RFP requirements, we present our firm's history, along with proof of our unparalleled expertise in Florida's water treatment and supply, and our team structure within the first four pages. Subsequent pages include our organizational chart, subconsultant details, and licenses.

### Brief History of the Proposer

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 water®** (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.

#### Years in Business

74 years

#### Annual Volume of Work of the Past 5 Years

Port St. Lucie – 5 year revenue  
= \$892,946

Total Firm = \$2,111,444,557

#### Company Ownership

Hazen is an employee-owned corporation.

Performed planning and/or design for

**33**

MEMBRANE PLANTS in Florida

**#1**

LARGEST WATER AND WASTEWATER DESIGN CENTER in South Florida

**\$8 BILLION**

IN FLORIDA PUBLIC WORKS INFRASTRUCTURE over the past 10 years

OVER **100 MGD**

OF WELLFIELD REHABILITATION AND IMPROVEMENTS in South Florida

MORE THAN **1 BILLION GPD**

OF PLANT UPGRADES designed over the last 10 years in Florida

**100 PERCENT**

of work devoted to THE WATER ENVIRONMENT

We bring **the right experience.**

**Hazen**

**74 YEARS**

IN EXISTENCE

**9 OFFICES**

in Florida and more than 60 OFFICES IN U.S. AND ABROAD

MORE THAN **2,000**

STAFF FIRMWIDE, with 200 staff in Florida



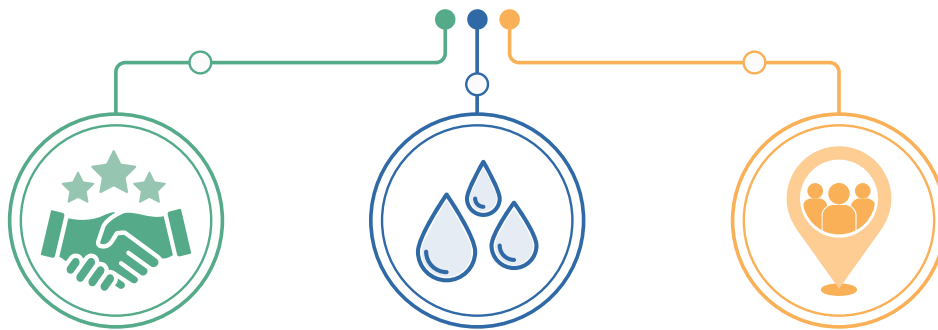
**Officers:** The table below includes contact information for select officers of the firm: Hazen's President/CEO and officers from our Southeast Region.

| Name   | Address  | Email                          | Phone Number   |
|--|--|--------------------------------|----------------|
| Alan Stone, PE<br>President and CEO            | 4011 WestChase Boulevard,<br>Suite 500, Raleigh, NC 27607    | astone@hazenandsawyer.com      | (919) 349-2007 |
| Robert B. Taylor, Jr.<br>Senior Vice President | 4000 Hollywood Blvd., Suite 750 North<br>Hollywood, FL 33021 | rbtaylor@hazenandsawyer.com    | (954) 987-0066 |
| Patricia Carney, PE, DBIA<br>Vice President    | 4000 Hollywood Blvd., Suite 750 North<br>Hollywood, FL 33021 | pcarney@hazenandsawyer.com     | (954) 987-0066 |
| Janeen Wietgreffe, PE, PMP<br>Vice President   | 4000 Hollywood Blvd., Suite 750 North<br>Hollywood, FL 33021 | jwietgreffe@hazenandsawyer.com | (954) 987-0066 |
| Kurt Pfeffer, PE<br>Associate Vice President   | 2101 Corporate Blvd., Suite 301<br>Boca Raton FL 33431       | kpfeffer@hazenandsawyer.com    | (561) 314-2446 |

## Hazen Benefits for Design-Build Project Delivery

Hazen brings the expertise to help Port St. Lucie navigate risks, streamline delivery, and meet operational needs for its critical water treatment plant.

## Your Trusted Owner's Representative for a Successful Water Treatment Plant



### National and Local Owner's Advisor/ Representative Expertise

- With 25+ years of design-build experience in water and wastewater infrastructure, our team brings expertise in procurement, contract negotiations, contract management, startup, commissioning, and closeout.
- We will guide the City through the PDB delivery process to ensure a successful project delivery.

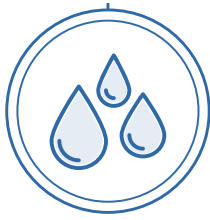
### Unmatched Knowledge of Water Supply and Treatment in Florida

- Designed, optimized, and led water supply planning for 33 membrane plants in Florida, with expertise in hydrogeology and permitting.
- Pioneered innovative membrane solutions, including split feed vessel designs that reduce electrical costs by 30%.

### Trusted Partner with Knowledge of Port St. Lucie

- Partnered with Holtz Consulting Engineers, a trusted City advisor for over six years, bringing deep local expertise.
- Led by an experienced team with decades of water/wastewater expertise, committed to delivering a seamless and successful water treatment plant project.



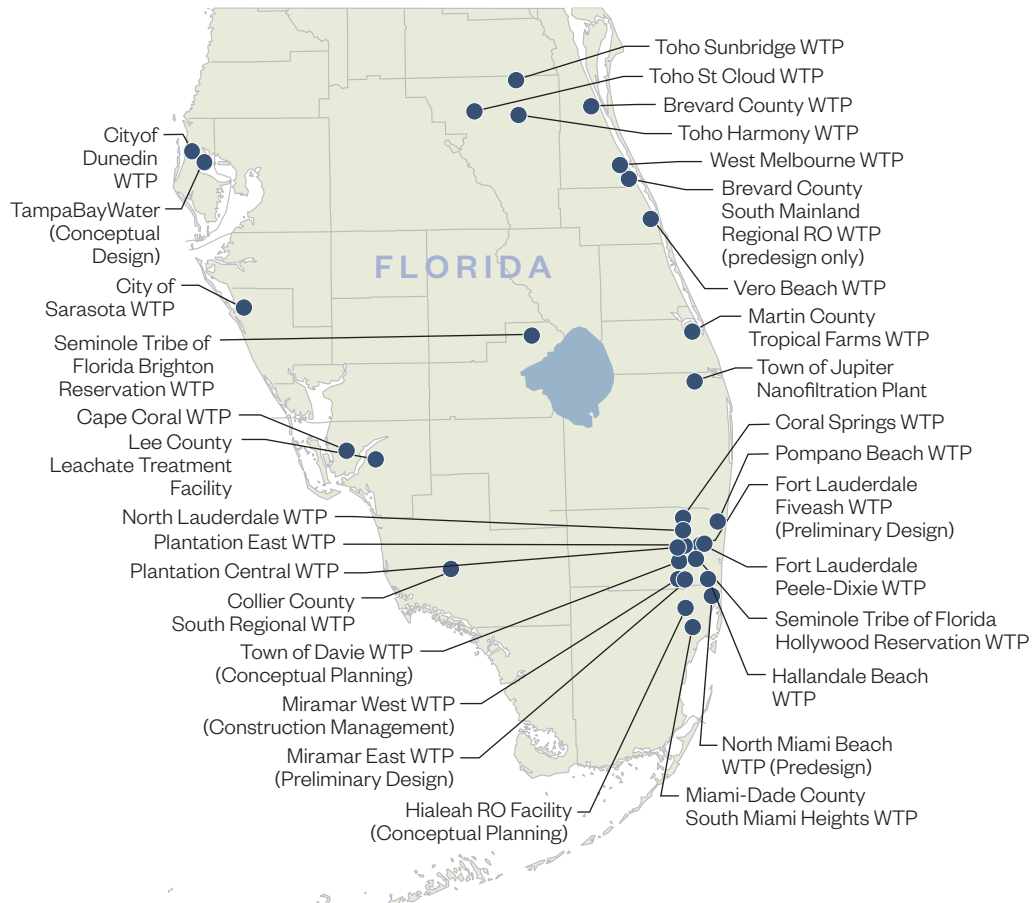


### Unmatched Knowledge of Water Supply and Treatment in Florida

## Unmatched Water Treatment and Supply Knowledge in Florida

In addition to our large-scale alternative delivery specialist experience, our Florida staff has designed and/or overseen construction of over \$8 billion in water-related projects throughout Florida over the past 10 years. **This experience will offer cost-saving solutions through lessons learned and innovation.** Hazen, a leader in applied research and technological innovation, designed split feed vessels for the Town of Jupiter's nanofiltration plant, reducing electrical feed costs by 30%. We will apply these resources to this project.

Hazen has performed planning and/or design for  
**33 membrane plants**  
in Florida.



**Our expert team specializes in membrane WTPs,**  
alternative delivery methods, water supply and treatment.



**Trusted  
Partner with  
Knowledge  
of Port St. Lucie**

## Team Structure and 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. **Hazen has partnered with Holtz Consulting Engineers (HCE) as part of the Owner's Representative Team. HCE brings a strong understanding of the City's needs, having served as its trusted advisor for the past six years.** Our organizational chart is provided on the next page. Resumes for key staff, as well as team licenses and certifications, are included at the end of this section. Below are brief bios of the project management team and key team leads.



**Kurt Pfeffer, PE**  
Project Director

- 38 years of experience in municipal water and wastewater projects across Florida, providing high-level oversight and ensuring team resources.
- Successfully delivered \$550M+ in water and wastewater infrastructure, including reverse osmosis facilities and collaborative delivery projects, over the past 15 years.



**Orlando Castro, PE, DBIA**  
Project Manager

- Extensive national owner's representative experience, including Delray Beach Membrane WTP PDB, Fort Lauderdale Sewer Consent Order Program, and Orange County (CA) Sanitation District DB Program.
- DBIA-certified expert in design-build best practices, risk mitigation, and delivering award-winning municipal projects.



**Curtis Robinson, PE**  
Deputy Project Manager

- 20+ years of experience in water, wastewater, and reclaimed water projects, with \$300M+ in design, permitting, and construction across St. Lucie and neighboring counties.
- Deep knowledge of Port St. Lucie's infrastructure and regulations, ensuring streamlined coordination, risk mitigation, and optimized long-term system performance.



**Monica Pazahanick, PE**  
Pre-Construction Phase Support  
Lead

- 12 years of experience in Palm Beach County, specializing in utilities and advanced membrane water treatment plant design; Deputy Project Manager for Delray Beach's Owner's Representative on the New WTP Progressive Design-Build project.
- Proven project management expertise, leading and communicating with owners, contractors, and design teams.



**Stephen Fowler, PE, CGC**  
Construction Phase  
Support Lead

- 20+ years in water/wastewater infrastructure, specializing in design, permitting, construction, and cost estimating.
- Has worked on over 45 design-build projects in South Florida.
- Has led construction phase services for treatment plants, pipelines, pump stations, and safety upgrades.

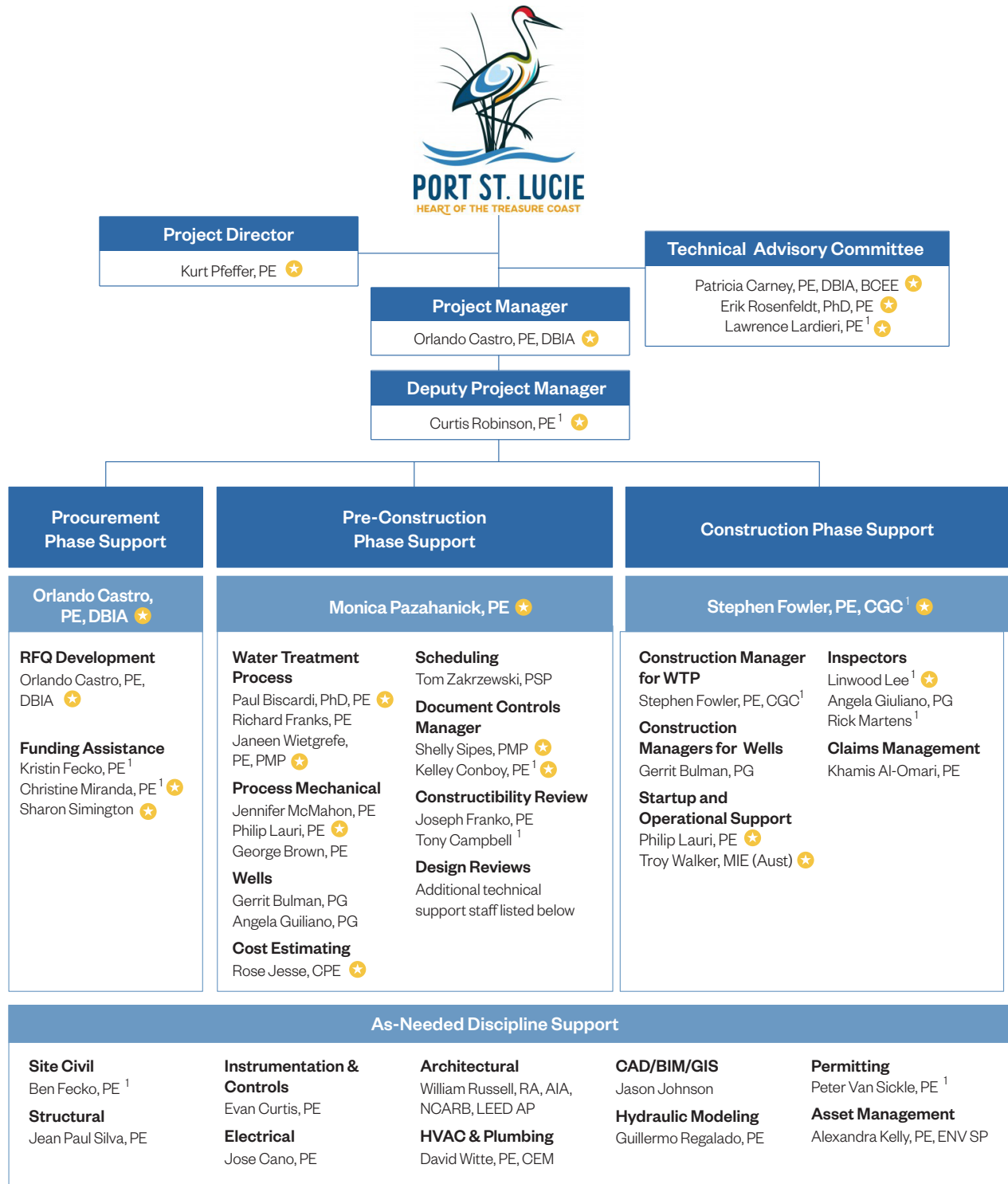


**Patricia Carney, PE, DBIA**  
Technical Advisor

- Award-winning DBIA professional with over 32 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.

## Organizational Chart

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



### Subconsultants

1. Holtz Consulting Engineers

★ Key Staff

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

## Subconsultants

Hazen will utilize locally-based partner Holtz Consulting Engineers, Inc. to complement the Hazen team.

### Holtz Consulting Engineers, Inc.

Role: Deputy Project Director; Deputy Project Manager; Technical Advisor;  
Construction Phase Support Lead; Funding Assistance; Document Controls  
Manager; Constructability Review; Inspector; Site Civil; Permitting



Holtz Consulting Engineers, Inc (HCE) was founded in Palm Beach County in 2006 to provide quality, timely and cost-effective civil and environmental engineering and consulting services to water/wastewater utilities in Southeast Florida. HCE is a certified small-business and minority-owned business enterprise with several local municipalities and governing agencies including the City of West Palm Beach and the South Florida Water Management District. HCE is a full-service firm with 13 professional engineers, two project engineers, one civil/mechanical designer/drafters, and six construction managers/inspectors. All the members of HCE are actively involved in providing service to its clients, which allows HCE to provide efficient and cost-effective service to its clients, including the City of Port St. Lucie. HCE specializes in water/wastewater engineering and has a comprehensive understanding of local regulatory requirements.

HCE specializes in providing cost-effective utility engineering services to local utilities. The firm's engineering and management expertise include the following areas of utility engineering and consulting:

- Permitting of treatment facility and infrastructure improvements.
- Water treatment, storage, pumping and distribution.
- Water resource management and alternative water supply.
- Master planning, capital improvement planning, sustainable service rate development and asset management.
- Budgeting and funding assistance, including grant writing and administration.
- Hydraulic modeling of water distribution, wastewater collection, and reclaimed water distribution systems.
- Water distribution system improvements.
- Construction management services, inspection and start-up assistance.
- Asset Management assistance.
- Grant writing and administration.

HCE provides significant experience and expertise in all phases of water and wastewater infrastructure improvement including planning, grant writing and administration, preliminary engineering and final design, permitting, procurement, construction services, and project start-up and close-out. HCE staff provide timely and cost-effective engineering and construction management services to local utilities, with an emphasis on understanding and delivering projects that meet the needs of its clients.



## HCE Benefits to the City of Port St. Lucie

- HCE provides a significant understanding of the City of Port St. Lucie's facilities and their utility system through our work on the City's master plan, supply wells, and water distribution projects. HCE has extensive prior successful project experience at numerous other water treatment plants in South Florida, including working with Hazen.
- As a licensed design-build entity, HCE has a firm knowledge of the design-build process.
- Linwood Lee has extensive experience with construction of treatment facilities, both as a contractor's project manager and HCE construction manager and inspector, including prior successful experience working with Hazen as a RPR for the City of West Palm Beach ECRWRF Biosolids Improvements project, the Palm Beach County Southern Region WRF Improvements, and the Port St. Lucie Westport Phase I Improvement projects.
- Rick Martens has provided construction management for several treatment facilities in South Florida including the City of Stuart RO Facility, City of Sunrise Weston Water Treatment Plant, the Seminole Tribe of Florida Hollywood Wastewater Treatment Plant, and the Village of Wellington Wastewater Treatment Plant Improvements projects.



## HCE Project Experience with Hazen

HCE has extensive prior experience with Hazen over the past 12 years working on major treatment plant improvement projects in South Florida, including:

- CEI services for the City of Port St. Lucie's Westport WWTP Phase II project.
- Planning, design, bidding, construction management and start-up of the \$100+ Million Biosolids Improvements Project at the City of West Palm Beach's 70-mgd ECRWRF.
- Full-time Resident Project Representative services for facility improvements projects at the Palm Beach County Southern Region WRF Improvements.
- Full-time RPR services for a secondary treatment process improvements project at ECRWRF, with rehabilitation of aeration basins, anoxic selectors and influent flow equalization and headworks bypassing system.
- Part-time inspection oversight and inspection services for projects for the Town of Jupiter, including a new stormwater pumping system and new raw water main.
- Hazen is working with HCE on several projects at the Loxahatchee River District Wastewater Treatment Plant.
- HCE and Hazen evaluated and will design a new Return Activated Sludge and Waste Activated Sludge pumping system for the Seacoast Utility Authority PGA Wastewater Treatment Plant.

## Qualifications for Employees of Subconsultant

| Name                    | Role                            | Qualifications   |
|-------------------------|---------------------------------|--|
| Curtis Robinson, PE     | Deputy Project Manager          | Over 21 years of experience in the design, permitting and construction administration of water, wastewater, and reclaimed water projects. He has worked on projects in St. Lucie County and neighboring counties totaling over \$300 million.  |
| Lawrence Lardieri, PE   | Technical Advisor               | Over 47 years of comprehensive utility engineering experience to the HCE team. Mr. Lardieri has diverse experience in the water and wastewater sector, and has worked on projects including master planning, sanitary sewer collection/transmission, pump station design, and facility rehabilitation, among others.   |
| Stephen Fowler, PE, CGO | Construction Phase Support Lead | 20+ years in water/wastewater infrastructure, specializing in design, permitting, construction, and cost estimating. Led construction phase services for treatment plants, pipelines, pump stations, and safety upgrades. Licensed general contractor having worked on over 45 design-build projects in South Florida.   |
| Linwood Lee             | Inspector                       | Has successfully managed construction over \$150 million of water and wastewater projects. At Holtz Consulting Engineers, he serves in the role of Construction Inspector and is primarily responsible for overseeing the construction of a project from start to finish and helps to ensure completion of the project as specified, on time, and within budget. |
| Rick Martens            | Inspector                       | Has provided construction management for several treatment facilities in South Florida including the City of Stuart RO Facility, City of Sunrise Weston Water Treatment Plant, the Seminole Tribe of Florida Hollywood Wastewater Treatment Plant, and the Village of Wellington Wastewater Treatment Plant Improvements projects.                               |
| Kristin Fecko, PE       | Funding Assistance              | Over 16 years of experience in providing grant research, application, and management experience.   |
| Christine Miranda, PE   | Funding Assistance              | Over 25 years of experience in the design of water treatment and distribution systems, pumping stations, permitting, and SRF funding assistance.   |
| Kelley Conboy, PE       | Document Controls Manager       | Has served as a project engineer on several successful collection and distribution projects. Has provided grant administration services during the construction phase. Currently managing an approximately \$30M/year continuing pipeline replacement program with multiple engineers and contractors.   |
| Tony Campbell           | Constructability Review         | More than 13 years of experience in the management of construction, operations and maintenance of water and wastewater treatment plants and collection/distribution systems and related utility infrastructure.  |
| Ben Fecko, PE           | Site Civil                      | Over 18 years of experience in the design of site layouts, drainage, stormwater improvements, and collection and distribution projects. The engineer of record for the Village of Indiantown WWTP expansion design-build project.  |
| Peter Van Sickle, PE    | Permitting                      | Over 15 years of experience in the design, permitting, and construction of utility improvements for public utilities. Permit experience includes SFWMD water supply plans, Army Corp of Engineers permitting, FDEP water distribution and wastewater collection permitting, and City of Port St. Lucie Public Works right-of-way permits.                        |

## Licenses

### Hazen

# *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, 2025, that its most recent annual report/uniform business report was filed on January 13, 2025, 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 Thirteenth day of January,  
2025*




  
*Secretary of State*

Tracking Number: 4346259733CC

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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 | 02/28/2027      |



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### Licensee

|                 |                              |                          |            |
|-----------------|------------------------------|--------------------------|------------|
| Name:           | HAZEN AND SAWYER, PC         | License Number:          |            |
| Rank:           | Geology Business Information | License Expiration Date: |            |
| Primary Status: | Current                      | Original License Date:   | 06/16/2021 |


### Related License Information

| License Number | Status          | Related Party       | Relationship Type      | Relation Effective Date | Rank                   | Expiration Date |
|----------------|-----------------|---------------------|------------------------|-------------------------|------------------------|-----------------|
| PG2697         | Current, Active | BULMAN, GERRIT RIJK | Professional Geologist | 05/20/2021              | Professional Geologist | 07/31/2026      |

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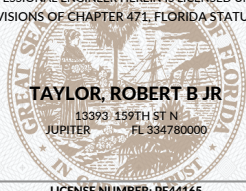


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Melanie S. Griffin, Secretary

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**TAYLOR, ROBERT B JR**  
 13393 159TH ST N  
 JUPITER FL 334780000


**LICENSE NUMBER: PE44165**  
**EXPIRATION DATE: FEBRUARY 28, 2027**

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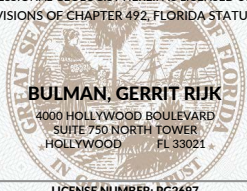


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**BULMAN, GERRIT RIJK**  
 4000 HOLLYWOOD BOULEVARD  
 SUITE 750 NORTH TOWER  
 HOLLYWOOD FL 33021

**LICENSE NUMBER: PG2697**  
**EXPIRATION DATE: JULY 31, 2026**

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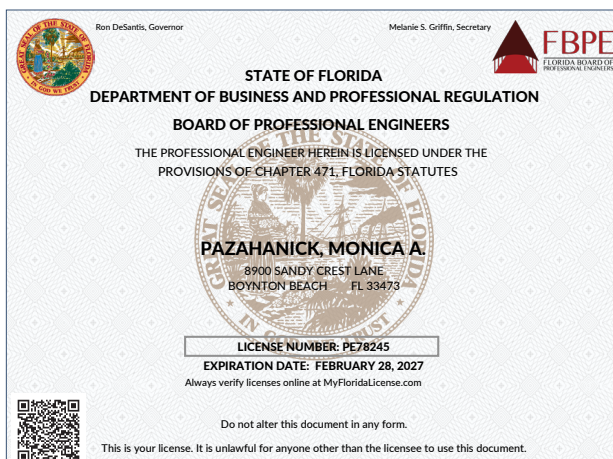
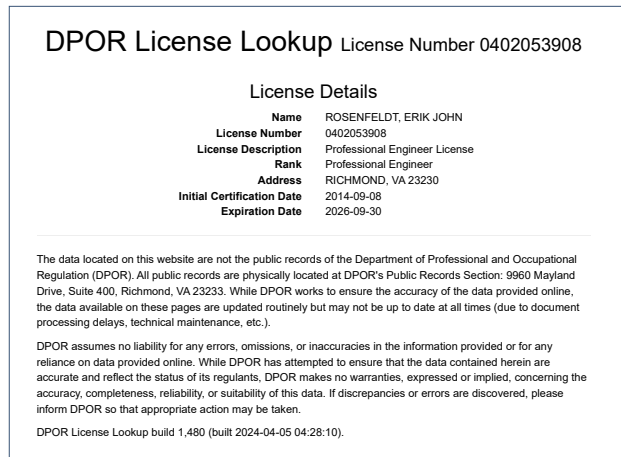
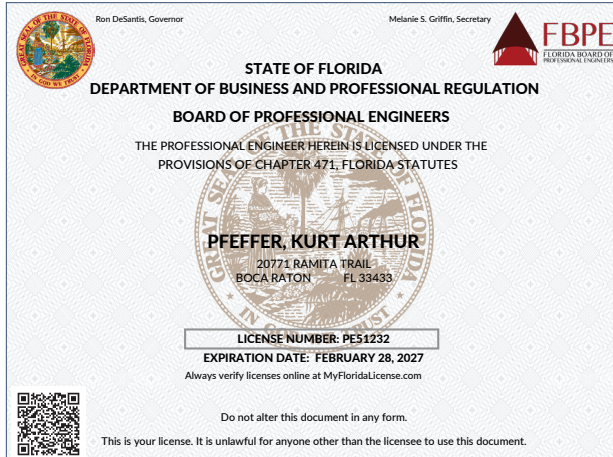


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52207

First Name

Richard

Last Name

Franks

License Status

Active

Discipline

ENGINEER/ENVIRONMENTAL

Initial Registration Date

22 Mar 2011

Expiration Date

30 Jun 2026

Address Line 1

161 Gardenside Court

City

Fallbrook

State

California

Zip

92028

Phone

760-908-1013

Florida Department of Business & Professional Regulation

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24

LICENSEE DETAILS

Licensee Information

Name:

WIETGREFE, JANEEN M. (Primary Name)

Main Address:

18480 SW 4TH ST  
PEMBROKE PINES Florida 33029

County:

BROWARD

License Information

License Type:

Professional Engineer

Rank:

Prof Engineer

License Number:

57632

Status:

Current/Active

Licensure Date:

07/19/2001

Expires:

02/28/2027

Special Qualifications

Advanced Building Code Course Credit

08/27/2018

7th Edition, Florida Building Code

12/07/2021

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MCMAHON, JENNIFER NICOLE

6950 SW 5TH STREET  
PEMBROKE PINES FL 33023

LICENSE NUMBER: PE56800

EXPIRATION DATE: FEBRUARY 28, 2027

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LICENSING DETAILS FOR: 62483

NAME: LAUREL PHILIP WISNIE

LICENSE TYPE: CIVIL ENGINEER

LICENSE STATUS: CLEAN

ADDRESS

4033 NATURES LANDING DR  
POMONA FL 33068  
OUT OF STATE COUNTY

MAP

ISSUANCE DATE: JULY 8, 2004

EXPIRATION DATE: DECEMBER 31, 2026

CURRENT DATE / TIME: MARCH 10, 2025 9:43:37 AM

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BROWN, GEORGE A.

3585 SIMMS STREET  
HOLLYWOOD FL 33021-0000

LICENSE NUMBER: PE56076

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GIULIANO, ANGELA

13219 63RD LN N  
WEST PALM BEACH FL 33412

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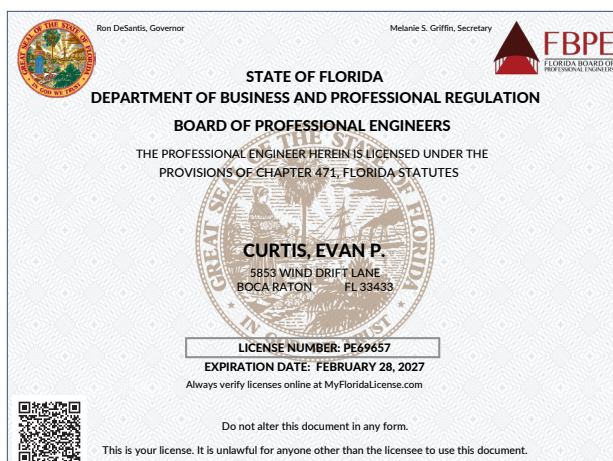
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Qualifications and Personnel Experience 2-12





|                             |   |
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| <b>LICENSEE DETAILS</b>     |   |
| <b>Licensee Information</b> |   |
| Name:                       | FRANKO, JOSEPH JOHN (Primary Name)  |
| Main Address:               | 2321 ATLANTI ATLANTIC BEACH BLVD<br>FORT PIERCE Florida 34949                 |
| County:                     | ST. LUCIE   |
| License Location:           | 2101 N.W. CORPORATE BOULEVARD<br>BOCA CORPORATE CENTER<br>BOCA RATON FL 33431 |
| County:                     | PALM BEACH  |
| <b>License Information</b>  |   |
| License Type:               | Professional Engineer   |
| Rank:                       | Prof Engineer   |
| License Number:             | 48077   |
| Status:                     | Current,Active  |
| Licensure Date:             | 07/15/1994  |
| Expires:                    | 02/28/2027  |





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| <b>Licensee Information</b>        |   |
| Name:                              | WITTE, DAVID JAMES (Primary Name)               |
| Main Address:                      | 34 WARREN ST<br>SARATOGA SPRINGS New York 12866 |
| County:                            | OUT OF STATE                                    |
| <b>License Information</b>         |   |
| License Type:                      | Professional Engineer                           |
| Rank:                              | Prof Engineer                                   |
| License Number:                    | 96150   |
| Status:                            | Current,Active                                  |
| Licensure Date:                    | 03/23/2023                                      |
| Expires:                           | 02/28/2027                                      |
| <b>Special Qualifications</b>      |   |
| <b>Qualification Effective</b>     |   |
| Mechanical                         | 03/23/2023                                      |
| 8th Edition, Florida Building Code | 02/14/2024                                      |



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| <b>Licensee Information</b>        |   |
| Name:                              | KELLY, ALEXANDRA L. (Primary Name)      |
| Main Address:                      | 5230 SW 64 COURT<br>MIAMI Florida 33155 |
| County:                            | DADE                                    |
| <b>License Information</b>         |   |
| License Type:                      | Professional Engineer                   |
| Rank:                              | Prof Engineer                           |
| License Number:                    | 90533                                   |
| Status:                            | Current,Active                          |
| Licensure Date:                    | 12/28/2020                              |
| Expires:                           | 02/28/2027                              |
| <b>Special Qualifications</b>      |   |
| <b>Qualification Effective</b>     |   |
| Environmental                      | 12/28/2020                              |
| 8th Edition, Florida Building Code | 01/19/2025                              |

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11:08:40 AM 3/10/2025

| Licensee Information |   |
|----------------------|---|
| Name:                | HOLTZ CONSULTING ENGINEERS, INC. (Primary Name)                   |
| Main Address:        | 270 SOUTH CENTRAL BOULEVARD<br>SUITE 207<br>JUPITER Florida 33458 |
| County:              | PALM BEACH  |

| License Information |                               |
|---------------------|-------------------------------|
| License Type:       | Engineering Business Registry |
| Rank:               | Registry                      |
| License Number:     | 26960                         |
| Status:             | Current                       |
| Licensure Date:     | 05/05/2006                    |
| Expires:            |                               |

## State of Florida Department of State

I certify from the records of this office that HOLTZ CONSULTING ENGINEERS, INC. is a corporation organized under the laws of the State of Florida, filed on March 24, 2006, effective March 24, 2006.


The document number of this corporation is P06000043115.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, and that its status is active.

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

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Sixth day of January, 2025*




  
**Secretary of State**

Tracking Number: 3722635486CC


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**HOLTZ, ANDREA PADILLA**  
270 SOUTH CENTRAL BOULEVARD  
SUITE 207  
JUPITER FL 33458

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**Licensee Information**

Name: ROBINSON, CURTIS DUANE (Primary Name)  
Main Address: 270 SOUTH CENTRAL BOULEVARD SUITE 207 JUPITER Florida 33458  
County: PALM BEACH  
License Mailing: 270 SOUTH CENTRAL BLVD. STE. 207 JUPITER FL 33458  
County: PALM BEACH

**License Information**

License Type: Professional Engineer  
Rank: Prof Engineer  
License Number: 65685  
Status: Current, Active  
Licensure Date: 01/18/2007  
Expires: 02/28/2027

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**LARDIERI, LAWRENCE ANTHONY**  
270 SOUTH CENTRAL BOULEVARD SUITE 207 JUPITER FL 33458

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**FECKO, KRISTIN M.**  
3450 SW ISLESWORTH CIR PALM CITY FL 34990

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**MIRANDA, CHRISTINE J.**  
2914 SE BELLA ROAD PORT SAINT LUCIE FL 34984

**LICENSE NUMBER: PE60906**  
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**CONBOY, KELLEY BARBARA**  
4319 SE BAYSHORE TER STUART FL 34997

**LICENSE NUMBER: PE97908**  
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**FOWLER, STEPHEN R. JR.**  
88 YACHT CLUB PLACE TEQUESTA FL 33469

**LICENSE NUMBER: PE69039**  
**EXPIRATION DATE: FEBRUARY 28, 2027**  
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**BOARD OF PROFESSIONAL ENGINEERS**

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

**FECKO, BENJAMIN JOSEPH**  
3450 SW ISLESWORTH CIR PALM CITY FL 34990

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary

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**VAN SICKLE, PETER JOSEPH**  
512 INLET RD NORTH PALM BEACH FL 33408

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1021-702



# Resumes





# Orlando Castro, PE, DBIA

## Project Manager

Mr. Castro's expertise includes structural design and program construction administration as Owner's Representative. He is Hazen's Regional Lead for the Corporate Program Management/Construction Management practice group.

### Education

ME, Structural Engineering,  
University of Florida, 2006

BS, Civil Engineering, University  
of Florida, 2005

### Certification/License

Professional Engineer: FL, NY,  
MS, PR

### Employment Record

2007 - Present, Hazen

### Areas of Expertise

- Collaborative Project Delivery
- Structural Analysis and Design
- Construction Management
- Project Management

### Experience

- 18 total years
- 18 years with Hazen

### Professional Activities

American Society of Civil  
Engineers

Cuban American Association of  
Civil Engineers

American Water Works  
Association

Design-Build Institute of America

Water Collaborative Delivery  
Association Representative

### Value to Port St. Lucie

- Experience serving as Owner's Advisor to numerous utilities throughout the country, many of which were their first experience with collaborative project delivery.
- Brings direct experience working with HCE on the Westport WWTP Phase II project, ensuring familiarity with the City's facilities, staff, and operations.
- **Proposed role/responsibilities:** As Project Manager, Mr. Castro will oversee the delivery of the Owner's Representative services and will lead the development of the RFP, PDB agreement, negotiations with the design-builder, and establish the workflow for the delivery of the project.

### Owner's Representative Services for the Design-Build Construction of a New Water Treatment Plant, [City of Delray Beach, FL](#)

Serves as Project Manager. As the City's Owner Representative, Mr. Castro and the Hazen team provide technical assistance to the City in multiple project phases, including planning, procurement, and execution of an alternative project delivery of their new 22-mgd nanofiltration water treatment plant.

### AE1-UPS Design-Build Pilot for Upstate Infrastructure Projects, [New York, NY](#)

Serves as Project Manager. Hazen serves as the design criteria professional (or AE-1) to the New York City Department of Environmental Protection (NYCDEP) on their first ever Design-Build Project. The New York Public Works Investment Act (PWIA) recently authorized New York City agencies such as the NYCDEP to utilize a Design-Build project delivery method.

### North and South Redundant Force Main Projects, [Fort Lauderdale, FL](#)

Served as the design criteria professional for Hazen. 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.





# Kurt Pfeffer, PE

## Project Director

Mr. Pfeffer brings 38 years of expertise guiding municipal water and wastewater projects from planning and design through construction and commissioning. In the past 15 years, he has successfully managed and delivered over \$550 million in water and wastewater treatment projects.

### Education

BSCE, Louisiana State University,  
Civil Engineering, 1985

### Certification/License

Professional Engineer: FL

### Employment Record

1995 - Present, Hazen

1986 - 1995, Carollo Engineers

### Areas of Expertise

- Construction Management
- Project Management
- Project Scheduling
- Water and Wastewater Treatment Plant
- Process and Mechanical Design
- Master Planning

### Experience

- 38 total years
- 9 years with Hazen

### Professional Activities

Water Environmental Federation

Florida Engineering Society

### Value to Port St. Lucie

- Extensive expertise in planning, design, construction and commissioning of treatment facility projects, including projects with membrane water treatment and collaborative delivery
- **Proposed role/responsibilities:** As Project Director, Mr. Pfeffer will oversee all aspects of the project, including allocation of required resources, implementation of quality assurance, project communications/reporting, and technical guidance.

### Greenfield Reverse Osmosis Water Treatment Plant and Raw Water Wellfield, [West Melbourne, FL](#)

Serving as Project Manager (design) and Project Director (construction) of a greenfield reverse osmosis membrane WTP, including a 20,000 ft<sup>2</sup> process/administration building, four RO treatment trains, pre- and post-treatment systems, clear wells, chemical feed systems, and high-service pumping.

### Island Water Reclamation Facility Relocation Progressive Design-Build (PDB), [Fort Pierce Utility Authority \(FPUA\), FL](#)

Project Director for planning, design and construction of an 8-mgd (expandable to 10-mgd) greenfield water reclamation facility. Hazen collaborated with the Owner and design-build contractor to identify and select value engineering options to optimize total project cost.

### South Regional Water Treatment Plant 12-mgd Reverse Osmosis Expansion, [Collier County, FL](#)

Project Manager for membrane pilot testing, construction, and startup/testing services. Developed accelerated piloting, procurement, and construction sequence to meet 15-month fast-track schedule.

### Thomas P. Smith Water Reclamation Facility Improvements Project, [City of Tallahassee, FL](#)

Project Manager for design, permitting, construction oversight, and commissioning for a \$180M program to upgrade to advanced waste treatment under FDEP Consent Order. Developed scheduling of multiple work packages with the Construction Manager-at-Risk to ensure on-time completion.



# Patricia Carney, PE, BCEE, DBIA

## Technical Advisor

Ms. Carney has 34 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.

### Education

ME, Manhattan College,  
Environmental Engineering, 1991

BS, Manhattan College, Civil  
Engineering, 1990

### Certification/License

Professional Engineer: FL, NY

### Employment Record

2007 - Present, Hazen

1997 - 2007, Post, Buckley,  
Schuh & Jennigan

1991 - 1997, Blasland, Bouck, and  
Lee, Inc

1989 - 1991, Town of Yorktown,  
New York

### Areas of Expertise

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

### Experience

- 34 total years
- 17 years with Hazen

### Professional Activities

DBIA South Florida Chapter  
Steering Committee, Co-Chair

American Academy of  
Environmental Engineers

### Value to Port St. Lucie

- Successfully delivered design-build projects with aggressive schedules such as the Fort Lauderdale North and South Redundant Force Main Design-Build project.
- Member of Hazen's Board of Directors, she has the authority to ensure that any and all Hazen resources are available to assist Port St. Lucie on this critical project.
- **Proposed role/responsibilities:** As Technical Advisor, Ms. Carney will oversee design and construction quality, ensure regulatory compliance, assess technical risks, and provide guidance on advanced treatment technologies and operational efficiency.

### Sewer Design and Implementation Program, [City of Fort Lauderdale, FL](#)

Served as Project Manager for a \$150M program to provide documentation, planning, design, and O&M services to assist the City with compliance to a Consent Order (CO) from the State of Florida. The CO contained 51 milestones and key tasks included completion of force main and pump station projects, completion of infiltration and inflow projects, and updating the City's sewer assets map.

### Government Cut Utilities Relocation Design-Build – Miami-Dade Water and Sewer Department, [Miami-Dade County, FL](#)

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.

### AE1-UPS Design-Build Pilot for Upstate Infrastructure Projects, [NYC Department of Environmental Protection \(DEP\), NY](#)

Hazen is serving as the design criteria professional (or AE-1) to NYODEP's first ever Design-Build Project. Hazen has been providing guidance for development of the design-build program and is developing the design criteria and engineering services for a two-step procurement process. Ms. Carney provides general oversight and ensures resource availability throughout all project stages.



# Erik Rosenfeldt, PhD, PE

## Technical Advisor

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 focuses on drinking water and reuse technology, evaluating, implementing, and optimizing conventional and advanced treatment processes.

### Education

MS, Geological Sciences,  
University of Alabama, 2005

BS, Geological Sciences,  
Brown University, 2000

### Certification/License

Professional Engineer: VA, NY

### Employment Record

2010 - Present, Hazen

2007 - 2010, University of  
Massachusetts, Amherst

2001 - 2007, Duke University

1999 - 2001, Environmental  
Resources Management

### Areas of Expertise

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

### Experience

- 26 total years
- 15 years with Hazen

### Professional Activities

AWWA: Organic Contaminants  
Research Committee

### Value to Port St. Lucie

- 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.
- **Proposed role/responsibilities:** As Technical Advisor, Mr. Rosenfeldt will ensure drinking water system quality, regulatory compliance, and assess risks related to emerging contaminants while guiding advanced treatment and monitoring strategies.

### PFAS Management Plan, [Miami-Dade Water and Sewer Department, FL](#)

Served as Technical Lead for a PFAS Management Plan project, which included 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 also assisted WASD in preparing for meetings with DERM, FDOH, and stakeholders within the county.

### Advanced Reuse Treatment Technology Pilot Testing, [City of Hollywood, FL](#)

Served as Process Expert and provided technical assistance in developing, planning, and executing pilot testing of advanced treatment technologies. These technologies included ion exchange, MF membranes, UV advanced oxidation, ozone, and biological filtration with the goal of reducing levels of emerging contaminants.

### Groundwater PFAS Control, [New York American Water, NY](#)

Served as Technical Advisor and Quality Control for a project to control PFOA and PFOS in New York State groundwater supplies. 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.



# Monica Pazahanick, PE

## Pre-Construction Phase Support Lead

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.

### Education

MS, University of Arkansas,  
Environmental Engineering, 2007

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

### Certification/License

Professional Engineer: FL

### Employment Record

2016 - Present, Hazen

2011 - 2016, Carollo Engineers,  
Inc.

2010 - 2011, Milian, Swain &  
Associates, Inc.

2007 - 2009, EMC Engineering  
Services

### Areas of Expertise

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

### Experience

- 17 total years
- 8 years with Hazen

### Professional Activities

Florida Section American  
Water Works Association  
Region VI - Membership Chair

### Value to Port St. Lucie

- Experienced in project management and technical oversight, ensuring effective communication between owners, contractors, and interdisciplinary teams from project scope to facility startup in Southeast Florida's water and wastewater industry.
- **Proposed role/responsibilities:** As Pre-Construction Phase Support Lead, Ms. Pazahanick will oversee pre-construction planning, design reviews, procurement, and construction readiness, ensuring seamless coordination, risk mitigation, and budget alignment for the new water treatment plant.

### Owners Representative for the New Water Treatment Plant Progressive Design Build, [City of Delray Beach, FL](#)

Serves as a Deputy Project Manager for this project. As the City's Owner Representative, Ms. Pazahanick and the Hazen team provides technical assistance in multiple project phases. Some of the specific tasks include the evaluation/validation of treatment alternatives, development of Progressive Design Build documents for advertisement, assistance in the review of documents provided by the proposers, assistance in the development and technical review of proposed scope of work and fees from the selected Design-Build team, funding assistance, and document control and management.

### Greenfield Reverse Osmosis Water Treatment Plant, [City of West Melbourne, FL](#)

Process Design Lead for the design of a greenfield RO membrane WTP. The design includes four treatment trains each with a treatment capacity of 1.1 mgd of permeate water. The WTP will include pre-treatment systems, post-treatment systems consisting of degasifiers and clearwell, chemical feed systems, storage, and high-service pumping necessary to produce high quality, finished water. Project includes engineering services for final design, permitting, and bidding.

### Alternative Water Supply Plan, [City of Stuart, FL](#)

Deputy Project Manager for this project focused on master planning new Upper Floridan Aquifer water supply wells, RO treatment facilities, and concentrate disposal. 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.



# Sharon Simington

## Funding Assistance

Ms. Simington leads the firm's efforts to secure alternative funding for a variety of clients and projects, acting as the liaison between agency and community to provide a smooth funding experience and cohesive working environment.

### Education

AA, State College of Florida,  
2024

### Employment Record

2022 - Present, Hazen

2019 - 2022, Mead & Hunt, Inc.

2010 - 2019, Malcolm Pirnie/  
ARCADIS

2008 - 2010, Lake Erie College of  
Osteopathic Medicine

2004 - 2008, Angie Brewer &  
Associates, LLC

### Areas of Expertise

- Funding Management
- Program Management
- Project Management

### Experience

- 21 total years
- 3 years with Hazen

### Professional Activities

American Water Works  
Association

### Value to Port St. Lucie

- Hazen's Southeast Regional Funding Lead and Funding Leader on many challenging projects within the State of Florida
- Extensive experience working with local governments to fund infrastructure projects that better communities
- Has created funding strategies that lay out groundwork for a single project or an entire Capital Improvement Plan
- **Proposed role/responsibilities:** For her role in Funding Assistance, Ms. Simington will identify funding opportunities, assist with grant and loan applications, develop financial models, coordinate with stakeholders, ensure compliance with funding requirements, and advise on financial strategies to support the new water treatment plant project.

### Fairgrounds Water Supply Wells and Water Treatment Plant, [City of DeLand, FL](#)

Served as Senior Program Administrator for a \$31.7 million project which included the planning and production of the Facility Plan, and construction of three new wells and a new water treatment plant.

### Catalyst Site Phase II, Potable Wells and Water Treatment Plant Design, [Suwanee County, FL](#)

Served as Senior Program Administrator and provided assistance in the grant management for an Economic Development Administration (EDA) grant for a Master Plan as well as for an EDA Public Works grant for infrastructure construction, and a Community Development Block Grant Economic Development grant for potable water improvements.

### Funding Analysis, Recommendation and Funding Management Hull Road Water System, [DeSoto County, NY](#)

Served as Senior Program Administrator for a \$2.5 million project including improvements on the DCU distribution line to net a savings of about 46 million gallons of flush water annually. Key activities included funding strategy, grant application, grant agreement coordination, grant administration, and project closeout.





# Paul Biscardi, PhD, PE

## Water Treatment Process

Dr. Biscardi specializes in water treatment design and optimization. He has experience with the design and operations of both membrane, sand filter, greensand filter, and ozone pilot studies.

### Education

PhD, Environmental Engineering,  
University of Central Florida, 2016

MS, Environmental Engineering,  
University of Central Florida, 2013

BS, Environmental Engineering,  
University of Central Florida, 2011

### Certification/License

Professional Engineer: FL

### Employment Record

2016 - Present, Hazen

2012 - 2016, University of Central  
Florida

2011 - 2012, Inwood Consulting  
Engineers, Inc.

2008 - 2011, U.S. Geological  
Survey

### Areas of Expertise

- Membrane Processes
- Potable Reuse
- Water Quality and Treatment
- Disinfection By-Products (DBPs)

### Experience

- 13 total years
- 8 years with Hazen

### Professional Activities

American Water Works  
Association

### Value to Port St. Lucie

- Membrane treatment process design expert with expertise in piloting, design, start-up, and operations
- Expertise in various filtration methods and treatment technologies
- Develops and assesses treatment processes, ensuring high-quality water supply; plays crucial roles in evaluating and recommending improvements
- **Proposed role/responsibilities:** As Water Treatment Process Engineer, Dr. Biscardi will review and evaluate water treatment processes, support construction and commissioning, ensure regulatory compliance, and optimize plant performance through process monitoring and training.

### Sunbridge Water Treatment Plant, [Toho Water Authority, Osceola County, FL](#)

Serving as the Lead Process Engineer for the design, permitting, and bidding for an expansion of an existing 1-mgd ozone water treatment facility to a 3.6 -mgd nanofiltration facility. A pilot program evaluated multiple technologies and nanofiltration was selected for TOC removal because of the excellent removal of high levels of organics in the raw water.

### Brighton Water Treatment Plant, [Seminole Tribe of Florida \(STOF\), Brighton, FL](#)

Served as Project Engineer on a project to improve water treatment operations and overall water quality, by transitioning to Upper Floridan Aquifer wells as a new water supply. Dr. Biscardi assisted with the detailed design of new treatment facilities and reconfiguration of the existing process to treat the new brackish groundwater supply. He was responsible for process design related to the RO membranes.

### West Melbourne Greenfield RO Water Treatment Plant, [City of West Melbourne, FL](#)

Served as Membrane Expert and QC support for the process design of this greenfield 4.4-mgd RO water treatment plant, including a 20,000 ft<sup>2</sup> process/administration building; pretreatment, membrane treatment, and post-treatment; finished water storage; and high-service pumping facilities.



# Janeen Wietgreffe, PE, PMP

## Water Treatment Process

Ms. Wietgreffe has over 28 years of expertise, ranging from planning for future water infrastructure for clients to providing design services for water treatment projects. She is also experienced with permitting, budgeting, construction management, and operational assistance.

### Education

ME, University of North Carolina, Environmental Engineering, 1997

BS, University of Florida, Environmental Engineering, 1995

### Certification/License

Professional Engineer: FL, NY

Project Management Plan Professional (PMP)

### Employment Record

2001 - Present, Hazen

### Areas of Expertise

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

### Experience

- 28 total years
- 24 years with Hazen

### Professional Activities

American Water Works Association

Southeast Desalting Association

Water Environment Federation

### Value to Port St. Lucie

- 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)
- **Proposed role/responsibilities:** As Water Treatment Process Engineer, Ms. Wietgreffe will review and evaluate water treatment process design during the pre-construction phase of the project.

### 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.





## Jesse Rose, CPE

### Cost Estimating

Ms. Jesse has 28 years of experience in cost estimating, budgeting, scheduling, document control, and project controls. She oversees Hazen's estimating team, providing transparent, defensible cost estimates that utilize real data on cost and a substantial knowledge of construction.

#### Education

BS, Civil Engineering Technology,  
Rochester Institute of  
Technology, 1996

#### Certification/License

Certified Professional Estimator  
(CPE)

#### Employment Record

2015 - Present, Hazen

2014 - 2015, Granite  
Construction

2010 - 2014, NYCDEP BEDC

2007 - 2010, Malcom Pirnie

2005 - 2006, Spath  
Construction

2001 - 2005, Waters  
Construction Company

2000-2001, J. Iapaluccio, Inc.

1998 - 2000, Tilcon Connecticut

1997 - 1998, Cosmar  
Construction Corporation

#### Areas of Expertise

- Construction Cost Estimating
- Constructability Review
- Risk Assessment
- Construction Sequencing/  
Scheduling

#### Experience

- 28 total years
- 10 years with Hazen

#### Value to Port St. Lucie

- Experience in analyzing value engineering concepts and overseeing projects involving cutting-edge technologies
- 15 years of DEP estimating experience in roles as Engineer's Estimator, Negotiator, and Construction Manager
- **Proposed role/responsibilities:** As Cost Estimator, Ms. Jesse will provide cost estimating support throughout the project, including budget development, design-phase estimates, bid evaluation, change order assessment, and cost control to ensure financial transparency and efficiency.

#### West Melbourne Greenfield RO Water Treatment Plant, [City of West Melbourne, FL](#)

Served as Cost Estimator for construction of this greenfield 4.4-mgd RO water treatment plant, including a 20,000 ft<sup>2</sup> process/administration building; pretreatment, membrane treatment, and post-treatment; finished water storage; and high-service pumping facilities. Hazen's estimate was within 3% of the successful bid.

#### Nassau Regional WRF Improvements, Phase 1A, [JEA, Jacksonville, FL](#)

Served as Cost Estimator for Phase 1 of this project for JEA, which evaluated effluent management alternatives for expanding an existing MBR WRF including existing wetlands, new wetland, deep well injection/aquifer recharge, and reclaimed water.

#### Building 11 Improvements and Rehabilitation, [City of Boca Raton, FL](#)

Served as Cost Estimator for preliminary, detailed design, and construction services for 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.



# Shelly Sipes, PMP

## Document Controls Manager

Ms. Sipes is a leader of technical innovations to improve infrastructure program management, extract business intelligence and transform processes through automation. She is experienced in capital improvement for Water, Environment, and Infrastructure.

### Education

MS, Geographic Information Systems, University of Texas, Dallas, 1996

BS, Landscape Architecture, Texas Tech University, 1989

### Certification/License

Project Management Professional (PMP)

### Employment Record

2023 - Present, Hazen

2021 - 2023, AECOM

2017 - 2021, Jacobs

2005 - 2017, CH2M/Critigen

1999 - 2005, XO/Nextlink

1996 - 1999, Rockwell-Collins

### Areas of Expertise

- Program Management Systems and Technology Advisory for operationally intensive facilities
- Process Reengineering and Digital Transformation consulting
- Program and Construction management software procurement and implementation

### Experience

- 28 total years
- 1 year with Hazen

### Value to Port St. Lucie

- Expertise in the global implementation of cost, schedule, risk, contract, document, and change management systems for major capital construction programs
- Skilled in business process mapping and reengineering with a focus on business transformation through technology
- **Proposed role/responsibilities:** As Document Controls Manager, Ms. Sipes will implement and manage a document control system, ensure version control and regulatory compliance, coordinate document submissions and approvals, generate progress reports, maintain project records, and provide training to the project team on document control procedures.

### Orange County Sanitation District, [Orange County, CA](#)

Progressive Design-Build Program Control Manager, Owner Agent to OC SAN responsible for development of control plans, tools and processes for implementation of PDB delivery method. Working closely with client and PDB contractors to streamline processes and ensure benefits are realized.

### Washington County Water Conservancy District, [St. George, UT](#)

Project Manager working closely with client and subject matter experts to develop a full Project Delivery System (PDS) and organizational change approach. Facilitated organizational assessment, project management training, and development of a project delivery framework. Leveraged the framework to workshop roles and responsibilities. Created detailed requirements and RFP to procure project management software. Worked collaboratively with selected vendor to configure and implement new software and train users with role specific job aids.

### North Texas Municipal Water District, [Wylie, TX](#)

Project Manager of Reliability Centered Maintenance pilot program to develop standard operating procedures and templates for Process Operating Context, Failure Mode, Effects, and Criticality Analysis (FMECA), and Maintenance Task Analysis (MTA).



# Philip Lauri, PE

Process Mechanical; Startup and Operational Support

Mr. Lauri has extensive experience in the planning, design, construction and operation of advanced water recycling, drinking water, wastewater, and ocean desalination facilities.

## Education

MBA, Business Administration,  
Pepperdine University, 2008

MS, Civil Engineering, California  
State University, Long Beach, 1994

BS, Civil Engineering, California  
State Polytechnic University  
Pomona, 1991

## Certification/License

Professional Engineer: CA, TN

## Employment Record

2023 - Present, Hazen

2012 - 2022, Mesa Water District

2003 - 2012, West Basin MWD

1997 - 2003, City of Los Angeles  
(LAWA)

1992 - 1997, City of Los Angeles  
(Collection Systems Engineering  
Division)

## Areas of Expertise

- Water Utility Management
- Membrane Treatment
- Water Resource Planning
- Engineering & Operations

## Experience

- 33 total years
- 2 years with Hazen

## Professional Activities

AWWA, AMTA, SWMOA

## Value to Port St. Lucie

- Extensive experience managing large-scale capital programs, treatment facility startups, construction oversight, and business process improvements, with a strong background in municipal leadership and regional water resource management.
- **Proposed role/responsibilities:** For his role in Process Mechanical; Startup and Operational Support, Mr. Lauri will oversee process mechanical design reviews, equipment selection, and constructability assessments while supporting startup, commissioning, operator training, and initial plant operations to ensure seamless integration, regulatory compliance, and optimized performance of the new water treatment plant.

## West Melbourne Greenfield RO Water Treatment Plant, [City of West Melbourne, FL](#)

Technical Advisor and Quality Control Reviewer for the process design of this greenfield 4.4-mgd RO water treatment plant, including a 20,000 ft<sup>2</sup> process/administration building; pretreatment, membrane treatment, and post-treatment; finished water storage; and high-service pumping facilities.

## Mesa Water Reliability Facility Expansion, [Mesa Water District, CA](#)

Served as Engineering Manager for a \$22 million project which included the expansion of the original 4 MGD deep aquifer colored water treatment system (Ozone/GAC process) with a 8.6 MGD nanomembrane treatment system with post water quality stabilization treatment systems (H<sub>2</sub>S/methane stripping and sodium hydroxide pH adjustment).

## Sunset Gap Seawater Intrusion Barrier Feasibility Study, [Orange County Water District, Fountain Valley, CA](#)

Served as Technical Advisor for a project which included a comprehensive assessment of the Orange County Groundwater Basin Sunset Gap area to determine the optimal technical and economic approach of protecting the OC Basin principal aquifer from seawater intrusion.



## Troy Walker, MIE (Aust)

### Startup and Operational Support

Mr. Walker serves as Hazen's corporate Water Reuse Practice Leader and Membrane Technology Leader. He has over 30 years of experience in the planning, design, construction, and operations management of advanced water reuse, seawater desalination, and advanced drinking water facilities.

#### Education

BE, Chemical Engineering,  
University of New South Wales,  
Australia, 2004

Graduate of CO-OP Scholarship  
Program

#### Certification/License

Professional Engineer: Australia

#### Employment Record

2013 - Present, Hazen

2007 - 2013, Veolia Water  
Australia

2000 - 2007, Veolia Water  
Australia

1998 - 2000, US Filter/Memcor

1994 - 2000, Memtec Ltd

#### Areas of Expertise

- Operations Management
- Operator Training
- Drinking Water
- Microfiltration
- Reverse Osmosis

#### Experience

- 30 total years
- 11 years with Hazen

#### Professional Activities

AWWA – Membrane Process  
Committee

#### Value to Port St. Lucie

- Brings a wealth of experience in piloting, detailed design, construction, commissioning, and long-term operations of membrane treatment technologies
- Over 30 years of experience in the planning, design, construction, and operations management of advanced drinking water facilities
- **Proposed role/responsibilities:** For his role in Startup and Operational Support, Mr. Walker will coordinate pre-startup planning, oversee system integration and performance testing, provide operator training, ensure regulatory compliance, optimize operational efficiency, resolve issues during startup, and maintain documentation and reporting.

#### Treatment Plant Membrane Troubleshooting, [Pinellas County, FL](#)

Provided operational assistance for the County's microfiltration and reverse osmosis membrane systems at the waste-to-energy industrial water treatment plant. This involved reviews of performance data from the County's membrane processes and review of the implementation of new membrane cleaning protocols.

#### Prospect Lake Clean Water Center, [City of Fort Lauderdale, FL](#)

Served as Technical Advisor for the design and construction of a proposed 50-mgd (finished water capacity) water treatment plant. Mr. Walker reviewed the approach to pilot testing for PFAS and provided input to the team. Additionally, he participated in meetings with the process mechanical subcontractor to confirm the finished water quality goals.

#### Hazard Analysis and Critical Control Point Evaluation for Surface Water Supplies, [Tampa Bay Water, FL](#)

Served as Technical Advisor for a project to develop and apply a systematic approach for evaluating monitors and treatment barriers for existing regional surface water supplies, and to support the development of a targeted monitoring program that focuses on prioritized risks.



Curtis Robinson joined Holtz Consulting Engineers, Inc. (HCE) in 2009. Mr. Robinson has over 21 years of experience in the design, permitting and construction administration of water, wastewater, and reclaimed water projects. He has worked on projects in St. Lucie County and neighboring counties totaling over \$300 million.

#### **Related Project Experience**

##### **Westport WWTP Phase II - City of Port St. Lucie:**

HCE is part of the Hazen team providing CEI services for this project. These services include full-time resident project representation, review of contractor pay requests, administering RFI and shop drawing responses, confirming adherence to the contract guidelines, and grant applications and compliance services.

##### **Martin County Utilities Tropical Farms WTP Sodium Hypochlorite Storage & Pumping Improvements:**

HCE provided professional engineering services required to implement sodium hypochlorite storage and feed systems improvements. The existing sodium hypochlorite metering pumps located in the chemical pumping building were replaced with larger pumps to handle the increased demand associated with reducing the strength of the sodium hypochlorite solution. A water softener system was designed to remove impurities from the dilution water prior to its use. HCE services included surveying, design, bidding and selecting a contractor for the work, permitting with the Florida Department of Environmental Protection (FDEP), assisting the County with contractor procurement, and construction management services.

##### **Seacoast Utility Authority Ground Storage Tank Nos. 5, 6 and 7 at the Hood Road Water Treatment Plant:**

HCE provided professional services for the surveying and site investigation, design, permitting, bidding and construction administration of the addition of three new 2-MG prestressed-concrete ground storage tanks (GST) at the Hood Road Water Treatment Plant (WTP), including associated water main piping extensions, valves and fittings, electrical and instrumentation and site preparation. Work also included various yard piping improvements in the vicinity of the new GST.

##### **Upper Floridan Aquifer Supply Well F-19 – City of**

**Port St. Lucie:** HCE is providing professional engineering services related to the survey, geotechnical exploration, design, permitting, bidding, and construction for a new 1,350-foot deep Upper Floridan Aquifer Supply well for the City's James E. Anderson (JEA) Water Treatment Plant. The project design includes the new well, a well head with an 1,840-gpm vertical turbine well pump, a 250 kW LP standby generator, a concrete block building, concrete driveway, fencing, and other site improvements. HCE's team includes a hydrogeologist for well design, an electrical engineer for electrical and communications design, and a structural engineer for the building design.

##### **City of Port St. Lucie Glades-Tradition Reuse Water Main Project:**

HCE provided professional engineering services related to the survey, geotechnical exploration, modeling, design, permitting, bidding, and construction for approximately 12,250 LF extension of the City's existing reuse water main originating from their Glades Wastewater Treatment Facility. The proposed extension started from the reuse water main's existing termination near Glades Cut-off Road and extended to the Glades Force Main Repump Station site at the end of SW Tradition Parkway right-of-way.

**Village of Indiantown WWTP Expansion:** HCE is providing preliminary and final design services, permitting, and construction support and resident engineering services for increasing the capacity of the WWTP as well as improvement effluent water quality to meet BMAP requirements. This project is being implemented via the progressive design-build method.

#### **Professional History**

2009–Present Holtz Consulting Engineers, Inc.

2003–2009 LBFH, Inc./Boyle Engineering/AECOM

#### **Education**

Master of Science in Engineering Management, Missouri S&T, 2003

Bachelor of Science in Civil Engineering, Missouri S&T, 2001

#### **Registration**

Professional Engineer, Registration No. 65685, State of Florida



Lawrence Lardieri brings over 47 years of comprehensive utility engineering experience to the Holtz Consulting Engineers, Inc. (HCE) team. Mr. Lardieri has diverse experience in the water and wastewater sector, and has worked on projects including master planning, sanitary sewer collection/transmission, pump station design, and facility rehabilitation, among others. As part of this contract, he will provide design, general engineering guidance and quality assurance.

### Related Project Experience

**Emergency Lift Station No. 88 Force Main Replacement– Seacoast Utility Authority:** HCE provided survey, design, permitting, and construction administration services of approximately 1,500 LF of 8” force main along Hood Road and the rehabilitation of Lift Station No. 88 including cleaning and recoating of the wet well, replacing the base plates, base elbows, riser piping, and all above-grade valves and piping. Also included was the disassembly and removal of the temporary force main and all restoration.

**iSIP Projects Neighborhood Water Main and Force Main Replacements – City of Boca Raton:** HCE is providing utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. The upgrades generally include construction of larger diameter water mains to replace aged mains, relocation and elimination of rear water service lines, as well as roadway, stormwater, and sidewalk improvements. HCE has completed the design, permitting, and construction of the Country Club Village and SW 18th Street neighborhood, which included a 16-inch water main under Interstate-95, and the SW 12<sup>th</sup> Ave corridor.

**26<sup>th</sup> Street & Flagler Drive Stormwater Improvements – City of West Palm Beach:** Assisting the City of West Palm Beach with the replacement of all underground public utilities along 26th Street including water, gravity sewer, and stormwater. HCE is providing professional engineering services including field investigation, survey, and design for numerous existing utilities in an existing residential neighborhood along 26th street in West Palm Beach. In addition to complete utility replacement, this project includes roadway

reconfiguration, design of new crosswalks and traffic calming facilities, and improvements to the existing landscaping. This project includes significant amounts of public outreach and coordination with the City and includes unique challenges due to the age of the existing infrastructure.

**Wastewater Treatment Plant and Lift Station Improvements – Village of Indiantown:** HCE is providing design and permitting services for proposed improvements at the WWTP to increase the annual average daily flow by 0.45 mgd to a total of 1.2 mgd, AADF, while also providing Class I reliability for operation of the plant, which is required prior to modifying the Village’s reuse system to be able to provide Part III Reuse to residential customers. HCE is also providing design and permitting services for the replacement of the 150th Street and Famel Lift Stations as well as rehabilitation and upgrade of the New Hope Lift Station, including all related mechanical, electrical, piping and site work.

**Tropical Farms Wastewater and Water Treatment Facilities - Martin County:** Engineer-of-record who directed design and permitting of the on-site master surface water management system for expansion of the existing wastewater treatment plant and water treatment plant, both located on the same site. Mr. Lardieri was also responsible for preparation of the paving, grading, and drainage improvements, and design of four on-site wastewater lift stations.

### Professional History

2020–Present Holtz Consulting Engineers, Inc.  
1989–2020 LBFH, Inc./Boyle Engineering/AECOM  
1988–1989 William M. Bishop Consulting Engineers  
1986–1988 R.J. Vilardi and Associates, Inc.  
1984–1986 Lardieri Engineering and Construction  
1975–1984 Palm Beach County Water Utilities/Seacoast Utilities Authority  
1974–1975 City of Boynton Beach

### Education

Bachelor of Science in Civil Engineering and Construction Technology, Temple University, 1974

### Registration

Professional Engineer, Registration No. 26948, State of Florida

Mr. Fowler has over 20 years of experience in the design, permitting, and construction of projects that include water and wastewater treatment, pipelines, pump stations, production and injection wells, and reclaimed water production. He also has experience in construction cost estimating and project management for underground utility general contractors, and in 2016 he obtained his general contractor's license.

### Related Project Experience

**City of Lake Worth Beach Water Treatment Plant Generator Interconnect:** Holtz Consulting Engineers, Inc. (HCE) provided engineering design, permitting, and construction services for a new manual power interconnect between the City's Lime Treatment Plant and RO Treatment Plant. The new interconnect allows the electrical power distribution system serving the RO Treatment Plant and associated facilities to power the Lime Treatment Plant and associate facilities, especially when on emergency diesel generator power. The manual tie also works to allow the Lime Treatment Plant to power the RO Treatment Plant if necessary. The project also included several other electrical upgrades throughout the plant high service pump power rerouting and fire alarm system upgrades.

**Hood Road WTP Facility Improvements– Seacoast Utility Authority:** HCE has performed numerous design-build projects at the Hood Road WTP including HVAC and coating improvements of the membrane building, louver and hurricane hardening of the high service pump building, acid storage and piping repairs and improvements, electrical improvements, and administration building leak repairs, stucco replacement, and aesthetic modifications.

**Lift Station 12 Improvements– City of Lake Worth Beach:** Mr. Fowler served as Project Manager and provided engineering, permitting, and construction services for a new submersible pump station to replace the existing pump station at the Palm Beach State College Lake Worth Campus. The existing pump station was a two-story building with a below-grade dry pit and wet well.

**Hood Road 36-inch Raw Water Main– Seacoast Utility Authority:** Mr. Fowler served as Project Manager for the survey, design, permitting, bidding,

and construction engineering services for 3,200 LF of 36-inch raw water main located in easements and right-of-ways along Hood Road in Palm Beach Gardens, Florida. Over 3,600 LF of fiber optic conduit was also designed and constructed as part of the project. The project included multiple pipe materials which were installed via both open-cut and directional drill methods.

**Wastewater Treatment Plant Safety Improvements – South Martin Regional Utility:** HCE provided the design, furnishing, and installation of several elevated aluminum platforms and stairways to provide the plant staff safe access to various areas and pieces of equipment for maintenance and operation. The project also included the design of upgraded LED lighting and additional site lighting to be implemented later. This project was implemented via the design-build method.

**Avenue U and Avenue C Repump Station Improvements–Riviera Beach Utilities Special District:** HCE provided survey, design and permitting, and construction administrative services for civil, mechanical, and electrical upgrades to the District's potable water repump stations located at Avenue C and Avenue U. At Avenue C, improvements included replacement of station piping, replacement of 60-HP and 70-HP booster pumps, installation of a new generator, and removal of an underground propane fuel tank. At Avenue U, improvements included replacement of lift station piping, installation of two new 100-HP booster pumps, and replacement of existing electrical equipment. This project was implemented via the design-build method.

### Professional History

2013–Present Holtz Consulting Engineers, Inc.

2013–2013 Johnson Davis, Inc.

2010–2013 AKA Services, Inc.

2004–2010 LBFH, Inc./Boyle Engineering/AECOM

### Education

Bachelor of Science in Environmental Engineering,  
University of Florida, 2003

### Registration

Professional Engineer, Registration No. 69039, State  
of Florida

Certified General Contractor, Florida, Registration  
No. CGC1525114

Christine Miranda has been a Client Service Manager and Project Manager with Holtz Consulting Engineers, Inc. (HCE) since 2012. Ms. Miranda is experienced in successfully managing multiple projects, from small, fast-paced projects to large projects with numerous disciplines and subconsultants. She brings over 25 years of experience in the design of water treatment and distribution systems, pumping stations, permitting, and SRF funding assistance.

### **Related Project Experience**

**Phase I Water System Improvements & SRF Funding – Village of Tequesta:** Project included design, permitting, and FDEP State Revolving Fund funding assistance of the replacement of approximately 11,200 LF of 4- to 10-inch water mains. SRF funding assistance included preparation and submission of the Request for Inclusion, Facilities Planning Document, and SRF loan administration during construction including American Iron and Steel and Davis Bacon Wage Requirements compliance, review of certified payrolls and labor interviews, and preparation of disbursement requests.

**City of Stuart Reverse Osmosis Water Treatment Plant- City of Stuart:** HCE is responsible for the design of the stormwater management, site work, and yard piping for this 1.5 mgd upgrade to the City of Stuart Water Treatment Facility. The project also included a design of an approximate one-mile 12" RO concentrate force main from the water treatment plant to a deep well injection at the wastewater plant. The site work consisted of new driveways, fencing, stormwater management including two rain gardens, and yard piping to connect the new and existing facilities. Permitting was required through FDEP for the stormwater management and the City of Stuart for the site plan and associated work. HCE is also responsible for the State Revolving Fund (SRF) administration during construction for this project.

**iSIP Projects Neighborhood Water Main and Force Main Replacements – City of Boca Raton:** HCE is providing utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. The upgrades generally include construction of larger diameter water mains to

replace aged mains, relocation and elimination of rear water service lines, as well as roadway, stormwater, and sidewalk improvements. HCE has completed the design, permitting, and construction of the Country Club Village and SW 18th Street neighborhood, which included a 16-inch water main under Interstate-95, and the SW 12<sup>th</sup> Ave corridor.

### **Water Distribution Improvements - City of Stuart:**

Project included design, permitting, and Florida Department of Environmental Protection (FDEP) State Revolving Fund funding assistance, of approximately 59,000 LF of 6-inch through 12-inch water mains in existing residential neighborhoods and commercial developments for the City of Stuart. The new mains replaced inadequately sized mains, looped dead ends, old mains, and increased fire protection for the City. The mains are located in City, County, and FDOT right-of-ways.

### **Port St. Lucie Blvd. Utility Adjustment Plans– City of Port St. Lucie:**

This project includes preparation of water and sewer utility adjustment engineering plan sheets for three separate projects along Port St. Lucie Blvd. Plan and profile utility sheets based upon FDOT standards were prepared based upon the contract roadway and drainage plans. Utility adjustments for both the water and sewer system included adjustments in place, relocations of several portions of water main and force main systems within the project corridor, and the inclusion of additional fittings and/or extension of mains to provide connections for future development.

### **Professional History**

2012–Present Holtz Consulting Engineers, Inc.

1999 –2012 LBFH Inc./Boyle Engineering/AECOM

### **Education**

Bachelor of Science in BioResource Engineering,  
Rutgers University, 1999

### **Registration**

Professional Engineer, Registration No. 60906, State of Florida

### **Professional Affiliations**

Florida Water Environment Association, Past  
Director-At-Large

Kelley Conboy is a graduate of Florida Atlantic University and joined Holtz Consulting Engineers, Inc. (HCE) in November 2021. While at HCE, she has served as a Project Engineer on several successful collection and distribution projects, as well as provided grant administration services during the construction phase.

### **Related Project Experience**

**Continuing Pipeline Projects – Seacoast Utility Authority (SUA):** HCE is serving as the resident engineer and providing inspection services for SUA's continuing pipeline program. Under this project, four engineering companies are performing design and permitting of various collection and distribution projects. HCE assisted with the selection of a pool of contractors and is assisting SUA with the construction management and oversight of these designs. This includes shop drawing review, RFI routing, confirmation of permit compliance, review of pay requests, public outreach, and project closeout.

**Dyer Drive Improvement Project – City of Stuart:** HCE is providing professional engineering assistance for the American Rescue Plan Act (ARPA) compliance during construction. The construction of this project includes installation of new drainage structures and piping for a residential area. HCE will be reviewing submittals and certified payrolls, as well as conduct labor interviews throughout the duration of construction to ensure ARPA compliance.

**NW Dixie Highway Ditch Improvement Project – City of Stuart:** HCE provided professional engineering assistance for the American Rescue Plan Act (ARPA) compliance during construction. The construction of this project included installation of new drainage structures and regrading the existing drainage ditch. HCE reviewed submittals and certified payrolls, as well as conducted labor interviews to ensure ARPA compliance.

**South Palm Park Sea Level Rise Mitigation Project – City of Lake Worth:** HCE provided engineering services and grant administration services for the construction of a stormwater pump station and associated appurtenances. These services included quarterly reports, coordinating field visits with the

Florida Department of Environmental Protection (FDEP), assembling reimbursement requests, and grant closeout documents.

**Phase I Asbestos Cement Water Main Replacement Project - Village of Tequesta:** HCE is providing engineering services for the design, permitting, bidding, and construction of approximately 11,000 LF of potable water main to replace the existing asbestos cement water mains within the Village of Tequesta's service area.

**Phase I Valve Additions – Palm Beach County Water Utilities Department (PBCWUD):** HCE assisted the County with the design and permitting of 80 valves to be added to existing water mains and force mains. These valves will benefit PBCWUD by allowing the isolation of pipelines during pipe breaks, thereby reducing emergency repair costs, minimizing the interruption of water and sewer services to customers and critical facilities, and in some cases, preventing the release of sewage into the environment. This is the first phase of the valve addition program. It includes valve additions at critical locations identified by hydraulic modeling and by operations and maintenance staff.

**iSIP Projects Neighborhood Water Main and Force Main Replacements – City of Boca Raton:** HCE is providing utility locating, geotechnical investigation, survey, design, permitting, bidding and construction services for infrastructure improvements in three neighborhoods. The upgrades generally include construction of larger diameter water mains to replace aged mains, relocation and elimination of rear water service lines, as well as roadway, stormwater, and sidewalk improvements. HCE has completed the design, permitting, and construction of the Country Club Village and SW 18th Street neighborhood, which included a 16-inch water main under Interstate-95, and the SW 12<sup>th</sup> Ave corridor.

### **Education**

Master of Science in Civil Engineering, Florida Atlantic University, December 2022

Bachelor of Science in Environmental Engineering, Florida Atlantic University, December 2018



Mr. Lee has successfully managed construction of over \$150 million of water and wastewater projects. At Holtz Consulting Engineers, Inc. (HCE), he serves in the role of Construction Inspector and is primarily responsible for overseeing the construction of a project from start to finish and helps to ensure completion of the project as specified, on time, and within budget. Mr. Lee is very familiar with utility construction projects and proper means and methods of construction, and is a valuable asset to HCE and our clients.

#### **Related Project Experience**

**Hood Rd. 36-inch Raw Water Main – Seacoast Utility Authority:** HCE provided survey, design, permitting, bidding and construction engineering services for 3,200 LF of 36-inch raw water main located in easements and right-of-ways along Hood Road in Palm Beach Gardens, Florida. Over 3,600 LF of fiber optic conduit was also designed and constructed as part of the project. The project included PVC, HDPE, and ductile iron pipe installed both via open-cut and directional drill methods.

**Martin Downs Inline Booster Pump Station – Martin County Utilities:** Project included design, permitting, bidding, and construction administrative services for an in-line wastewater booster pump station at the Martin Downs Master Repump Facility. This project included modifying the existing repump facility into an in-line repump station with chopper pumps. These improvements reduced the impact rags and other debris had on the pumps and reduced rag accumulation in the storage tanks and sources of odors and maintenance problems. The tanks are still available for use on an emergency basis allowing increased operational flexibility. The project also included an on-site submersible lift station, the conversion of an existing lift station to a manhole, and the construction of two new vacuum truck off-loading stations.

**Tropical Farms Wastewater Treatment Plant (WWTP) Reclaimed Water Storage Tank & Pumping and Return Activated Sludge Pumping Improvements – Martin County Utilities:** HCE provided design, permitting, and construction administrative services for a two-phase reclaimed water storage and pumping improvements project at the Tropical Farms WWTP. Phase I consisted of a new

one million gallon pre-stressed concrete reclaimed water storage tank including vibro-flotation compaction beneath the tank, bypass piping, and piping relocations. Phase II included a new reclaimed water distribution pump station including 18- to 36-inch suction and discharge piping and three vertical turbine pumps. An effluent transfer pump station with three new vertical turbine pumps located at the chlorine contact basin was also included. Phase II also consisted of replacing two existing Return Activated Sludge (RAS) pumps with new dry-pit mounted chopper-style pumps.

**Water Distribution Improvements - City of Stuart:** Project included design, permitting, and Florida Department of Environmental Protection (FDEP) State Revolving Fund funding assistance, of approximately 59,000 LF of 6- to 12-inch water mains in existing residential neighborhoods and commercial developments for the City of Stuart. The new mains replaced inadequately sized mains, looped dead ends, old mains, and increased fire protection for the City. The mains are located in City, County, and Florida Department of Transportation right-of-ways.

**Ground Storage Tank No. 5 and 7 at the Hood Road Water Treatment Plant – Seacoast Utility Authority:** Project included survey, design, permitting, bidding and construction administration services for the addition of two new 2-MG prestressed-concrete ground storage tanks at the Hood Road Water Treatment plant. This project included associated water main piping extensions, valves, and fittings, as well as electrical, instrumentation, and site preparation necessary for the installation of Ground Storage Tank No. 5 and 7. The project also included various yard piping improvements in the vicinity of the new ground storage tanks.

#### **Professional History**

2016–Present Holtz Consulting Engineers, Inc.  
2006–2016 TLC Diversified, Inc.  
2002–2006 Western Summit Constructors  
1997–2002 The Industrial Company

#### **Education**

High School, Morgan City, LA.  
Construction Management, WSU, WA.



# 3

## Owner's Representative Experience



## 3 Owner's Representative Experience

Hazen will share valuable lessons learned from our extensive experience as an owner's representative and in alternative delivery and membrane plant projects with the City.

With our national and local owner's representative and design-build expertise, unmatched knowledge and participation in the design and construction of 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 the City of Port St. Lucie's new water treatment plant.

Over the past 10 years, we have successfully completed an array of alternative delivery and membrane water treatment plant projects solely focused on water and wastewater utilities throughout the country.

The table below highlights the projects included in this proposal. Detailed project sheets are provided at the end of this section.

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 RFP.

| Project   | Role                           | Delivery Method | Owner's Rep. | Design Criteria Professional | Membrane WTP |
|---|--------------------------------|-----------------|--------------|------------------------------|--------------|
| City of Delray Beach - Owner's Representative for Design-Build Construction of New WTP  | Prime                          | PDB             | •            | •                            | •            |
| City of Fort Lauderdale - Owner's Representative for Prospect Lake Clean Water Center   | Prime                          | FPDB            | •            | •                            | •            |
| NYCDEP, Upstate New York - AE1-UPS: Design-Build Pilot Program for Upstate Infrastructure Projects                                    | Prime                          | FPDB            | •            | •                            | •            |
| Orange County Sanitation District, Orange County, CA - Owner's Advisor Services   | Prime                          | PDB             | •            | •                            | •            |
| Hampton Roads Sanitation District, VA - Sustainable Water Initiative or Tomorrow (SWIFT) Full-Scale Implementation Program Management | Program Management Team Member | FPDB            | •            | •                            |              |
| City of Fort Lauderdale - Sewer Design and Implementation Program   | Prime                          | FPDB            | •            | •                            |              |
| City of West Melbourne New Water Treatment Plant Feasibility Analysis and Design, and Test/Production Well                            | Prime                          | DBB             |              |                              | •            |
| City of Hallandale Beach - Reverse Osmosis Train Addition   | Prime                          | DBB             |              |                              | •            |
| City of Miramar - East WTP Improvements   | Prime                          | PDB             | •            | •                            | •            |

Legend:

PDB: Progressive Design-Build

FPDB: Fixed-Price Design-Build

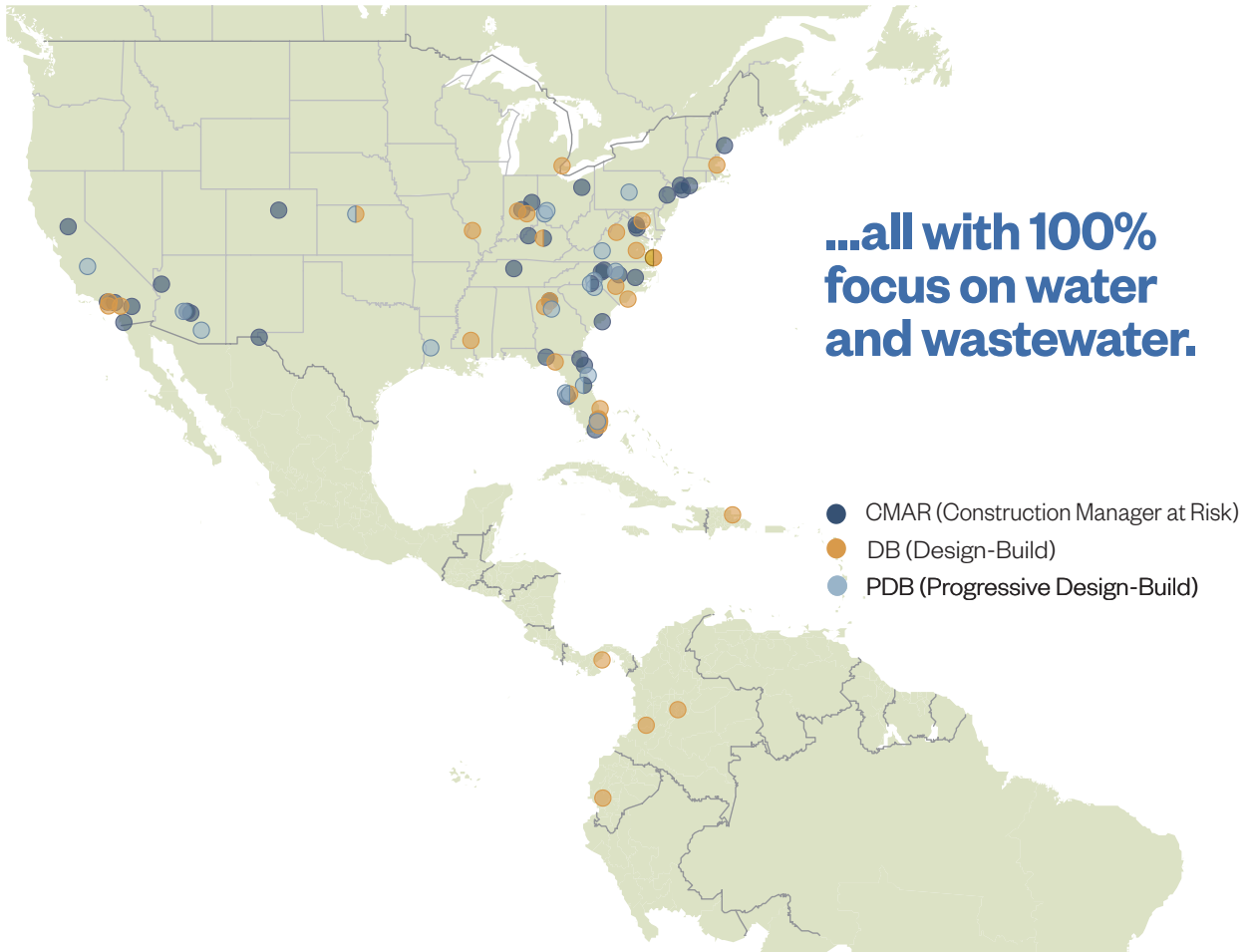
DBB: Design-Bid-Build



**National and Local  
Owner's Advisor/  
Representative  
Expertise**

## Hazen has been delivering Design-Build projects for over 25 years

From coast to coast, Hazen has led large-scale, innovative, and award-winning Design-Build programs for major utilities, including Miami-Dade Water and Sewer Department, the City of Fort Lauderdale, Los Angeles Department of Water and Power, Charlotte Water, Hampton Roads Sanitation District, and Nassau County Department of Public Works.



**100+**

Design-Build,  
Progressive Design-Build,  
and CMAR Projects



**\$9 Billion**

Alternative Delivery  
over Past 10 Years



**26**

Owner's  
Representative/  
Program Manager



Across  
**24**  
States



**10**

Design-Build  
Awards

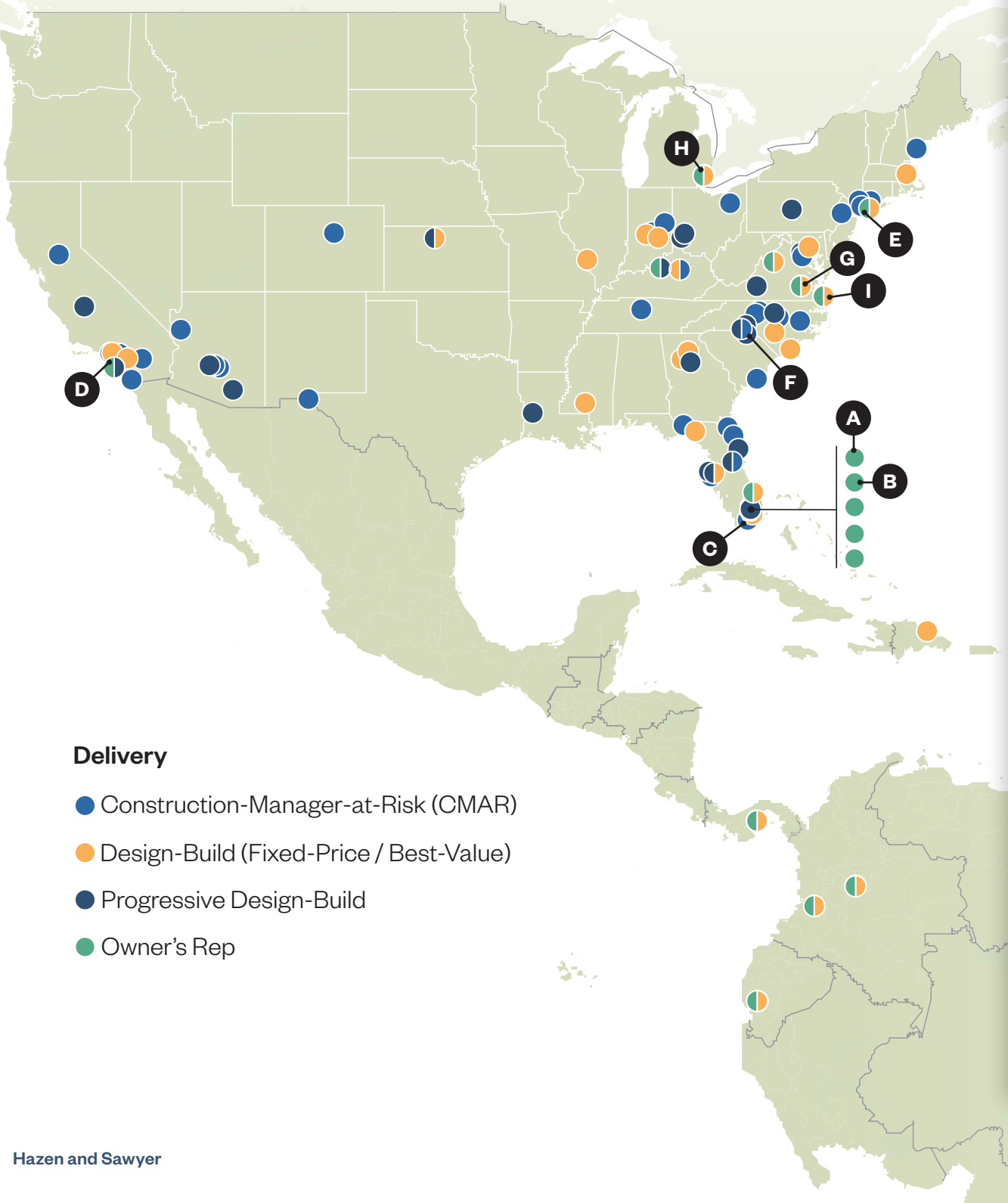
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# Nationwide Design-Build Project Experience

## Exclusively in the Water Market

Our experience provides the City of Port St. Lucie with a partner knowledgeable of all types of design-build programs for water-related infrastructure projects. This experience gives us unique insight in how to maximize the innovation opportunities and schedule and cost benefits of this delivery method for Port St. Lucie.



### Ft. Lauderdale Consent Order Program

Hazen is the Program Manager for the delivery of a Ft. Lauderdale consent order program. The projects require 51 milestones to be met. Hazen is providing design criteria development, procurement services, and construction oversight for 7 projects of the Program that were delivered via design-build.



### Prospect Lake Water Treatment Plant Owner's Representative

Hazen is the Owner's Representative for the design-build delivery of the Fiveash WTP Replacement project, which includes design review, permit review and coordination, and construction oversight.



### Miami-Dade Government Cut

Hazen provided design services and construction administration for the design-build drinking water and wastewater pipe relocation project to allow for the dredging of the Port of Miami.



### Regional Brackish Water Reclamation Program, Phase 1, Water Replenishment District of Southern CA

Hazen is currently serving as the Owners Agent for a progressive design-build project to design and construct wells and a treatment system for a saline seawater plume.



### AE1-UPS: DEP Design-Build Pilot Program for Upstate Infrastructure

Hazen is currently serving as the Owners Representative (AE1) for DEP's first upstate design-build project.



### Yadkin Regional Water Supply Project

Hazen served as Lead Designer for the progressive design-build delivery of Yadkin Regional Water Supply Raw Water Infrastructure Project, including detailed design, environmental review, permitting, and cost evaluation to meet project performance requirements within budget.



### Hopewell Water Treatment Plant

Hazen is currently serving as the Lead Designer for a this Design-Build project to construct a new pump station, electrical building, chemical and UV facility at the American Water Hopewell Water Treatment Plant.



### Great Lakes Water Authority Owner's Rep

Hazen served as the Owners Representative for the design/build/maintain (D/B/M) contract for a new 240-mgd water treatment plant at Water Works Park for GLWA which required oversight during all phases of the D/B/M project.



### Sustainable Water Phase 3, Demonstration Facility (SWIFT), Suffolk, VA

Hazen is serving as Owners Representative in a Joint Venture for design build delivery, in which Hazen is responsible for development of the bridging documents for the 100 mgd aquifer recharge facility.



# Project Experience





# Owner's Representative for Design-Build Construction of New WTP

Delray Beach, FL

Hazen assisted the City with scope validation of the new WTP, including documentation of the treatment selection and determination of the initial capacity.

Hazen evaluated project delivery methods and provided recommendations for the delivery of the City's goals. Hazen developed the RFQ, provided Design-Build procurement assistance, and funding and grant assistance. Hazen continues to partner with the City as Owner's Representative, providing technical reviews and assistance for the design phase of the project.

The City is pursuing the construction of a new WTP, installation of six SAS wells, rehabilitation of a portion of the existing SAS wells, and construction of a deep injection well and monitor wells. The City selected progressive design-build as the project delivery approach and contracted the services of a qualified Design-Build team.

## Relevance to Port St. Lucie

- Provided assistance in procurement of progressive Design-Build firm.
- Serves as extension of staff during the preconstruction phase.
- Assisted with procurement and administration of SRF grants for the project.
- Provides technical reviews during design, including all design disciplines, cost estimates, and constructability.
- Review and monitor project risks and provide advice to the City on best approach for management of risks.

## Start/End Date

Start Date: 11/2022

End Date: 11/2027

(Phase 1 - Pre-construction)

## Was Project Completed On Time and On Budget? If not, Why?

N/A. This project is ongoing and currently on schedule and on budget.

## Change Order Details

N/A. This project is ongoing.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Janeen Wietgreffe, PE, PMP  
Project Director

Orlando Castro, PE, DBIA  
Project Manager

Monica Pazahanick, PE  
Deputy Project Manager

Kurt Pfeffer, PE  
Equipment Pre-Purchase

Paul Biscardi, PhD, PE  
Technical Expert - Membranes

Erik Rosenfeldt, PhD, PE  
PFAS Advisory

## Reference

Hassan Hadjimiry, PE  
Utilities Director  
City of Delray Beach  
(561) 243-7303  
hadjimiryh@mydelraybeach.com

The City selected Hazen as the City's representative to assist with engineering and owner's representative services tasks. Phase I support services currently being provided by Hazen include:

- Engineering Services During Predesign Phase: Hazen is providing technical assistance and reviews for modifications to existing supply wells, pilot testing for selection of membrane elements, pre-treatment and post-treatment strategies, and corrosion control strategies.
- Phase I Detailed Design: Our services include technical review of design packages, schedule, and construction costs estimate at the different design milestones. The design milestones of 10%, 30%, 60%, 90%, and 100% design packages. Hazen is also assisting the City in negotiations of the Guaranteed Maximum Price (GMP) for construction of the new facility. The GMP will be developed at the 60% design milestone.
- Schedule and Cost Review: Hazen is also reviewing the Design-Build baseline schedules and schedule updates monthly and will provide comments based on contract requirements and industry best practices to ensure quality and reliability of each schedule submittal. Hazen will also review and provide comments on the Design-Build's proposed cost model for use in subsequent cost estimates.





# Prospect Lake Water Treatment Plant Owner's Representative

Fort Lauderdale, FL

Hazen was selected by the City of Fort Lauderdale to provide Owner's Representative services for design and construction of the proposed 50-mgd (finished water capacity) water treatment plant.

The City of Fort Lauderdale's existing Fiveash WTP was constructed in the 1950s and is at the end of its useful life. The City commissioned an engineering study to determine the future of the facility. That study recommended replacing the Fiveash WTP with a new state-of-the-art WTP using a combination of nanofiltration and ion exchange treatment technology.

## Relevance to Port St. Lucie

- 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 and construction inspections.
- Membrane treatment and deep injection wells for concentrate disposal.

## Start/End Date

Start Date: 04/2023

End Date: 09/2026 (est.)

## Was Project Completed On Time and On Budget? If not, Why?

N/A. This project is ongoing and currently on schedule and on budget.

## Change Order Details

N/A. This project is ongoing.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Orlando Castro, PE, DBIA  
Project Delivery Advisor

Patricia Carney, PE, DBIA  
Project Director

Janeen Wietgreffe, PE, PMP  
Project Manager

George Brown, PE  
Deputy Project Manager

Paul Biscardi, PhD, PE  
Technical Expert - Membranes

Erik Rosenfeldt, PhD, PE  
PFAS Advisory

Gerrit Bulman, PG  
Concentrate Disposal/Injection Well

## Reference

Daniel Fisher, Project Manager  
City of Fort Lauderdale  
(954) 828-5850  
dfisher@fortlauderdale.gov



The new plant would be located approximately 3 miles from the Fiveash WTP at the City's Prospect Wellfield. The new plant is designated as the Prospect Lake Clean Water Center. The Fiveash WTP treatment facilities will be decommissioned and used only for finished water storage and pumping.

The City decided to procure this project through a Public-Private-Partnership agreement. The City received multiple unsolicited proposals and selected the team to design and construct the plant. In parallel, the City selected Hazen as the Owner's Representative to review the design and oversee the construction of the \$700 million water treatment plant.

Hazen's services include review of permit application, review of design packages, coordination with permitting agencies and City departments. Hazen also provides technical review of process design including the team's approach to optimization of corrosion control. Hazen maintains a risk register for the City, identifying the risks and mitigation strategies for each risk. As the team moves from design to construction, Hazen will provide multiple inspectors and Resident Project Representatives to observe the construction of the WTP and support facilities, as well as process specialists for the startup phase of the project.



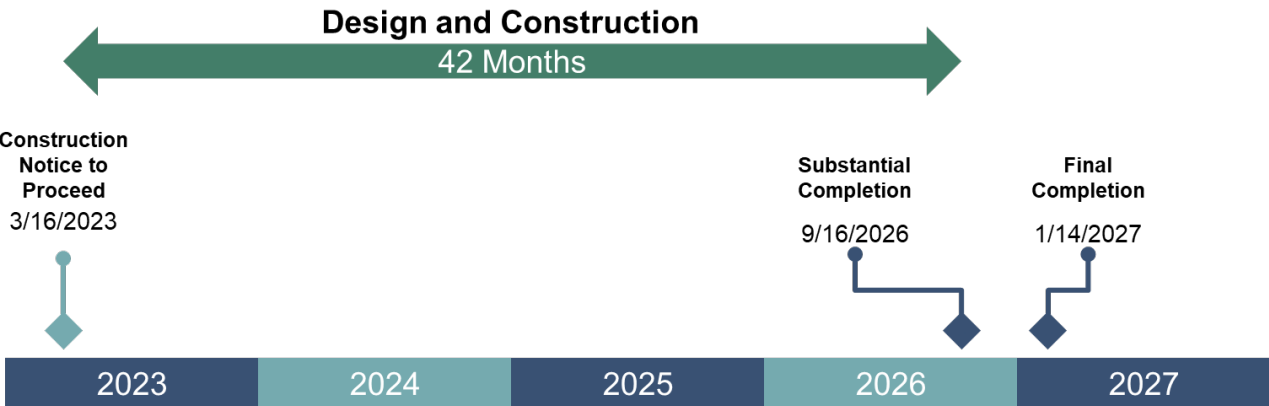
Testing & Evaluation of Prospect Wellfield



Raw Water Characterization



ITF Meeting with Client





# AE1-UPS: Design-Build Pilot Program for Upstate Infrastructure Projects

NYCDEP, Upstate NY

Hazen is providing architect and engineering services (AE) to DEP on one of their first ever design-build projects—AE1-UPS. The New York Public Works Investment Act (PWIA) recently authorized New York City agencies such as DEP to utilize a design-build project delivery method.

Since the passage of the PWIA, DEP has been internally building a program to support the design-build project delivery method. As AE1, Hazen has been providing guidance to DEP on development of the design-build program and is developing the design criteria and engineering services for a two-step procurement process (Request for Qualifications (RFQ), and Request for Proposals (RFP)) for DEP's first upstate design-build project.

## Relevance to Port St. Lucie

- Design-build Delivery Method and Owner's Agent Services.
- Hazen is partnering with the client to issue the pilot project design criteria package as quickly as possible, while maintaining quality and ensuring all scope assets are thoroughly vetted to reduce the risk of change orders during the design-build phase.
- Hazen is working collaboratively with all project stakeholders to deliver the project to the highest of quality standards with minimal disruptions to day-to-day operations.

## Start/End Date

Start Date: 09/2022

End Date: Ongoing

## Was Project Completed On Time and On Budget? If not, Why?

N/A. This project is ongoing and currently on schedule and on budget.

## Change Order Details

N/A. This project is ongoing.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Orlando Castro, PE, DBIA  
Project Manager

Patrica Carney, PE, DBIA, BCEE  
Project Director

## Reference

Ruth Burney, PE  
BEDC DB Program Manager  
NYCDEP  
(718) 595-7626  
rburney@dep.nyc.gov

Hazen is supporting the first project under AE1-UPS involving reconstruction of three different reservoir roadways and ancillary reservoir facility improvements throughout the DEP watershed to provide safe and reliable access to and around these facilities for DEP and the traveling public. Hazen is performing facility planning activities to allow for final development of the RFP, which Hazen is supporting DEP to develop as well as the selection of shortlisted design-build (DB) teams. The three sites, Ashokan Reservoir, Schoharie Reservoir, and the New Croton Reservoir, each offer their own challenges that need addressing through the one combined design-build project.

In addition to being selected as a pilot project for DB, through AE1-UPS, the Upstate Roadways Reconstruction and Improvements Project is also a pilot project for the NYC Mayors Office of Climate and Environmental Justice Climate Resiliency Design Guidelines, providing the opportunity to trial these new sustainability requirements for DEP's Upstate projects. Hazen previously helped NYC establish the resiliency design guidelines, therefore our sustainability group has been guiding DEP in how to incorporate them into the DB project.

The AE1-UPS project has faced several challenges that Hazen has helped DEP address to ensure successful delivery. These include:

- Identifying the right project for DB delivery.
- Notifying the DB community up the upcoming project by issuing a NOI prior to the RFQ.
- Performing sufficient investigative work to provide the right level of detail in the RFP.
- Balancing performance and prescriptive project requirements.
- Developing CEQR/SEQR documentation in parallel with the design criteria development.
- Holding DB training and focused meetings with key stakeholders to make critical design decisions prior to RFP release.
- Building on existing DEP SOPs to allow them to be utilized for DB project delivery.
- Identifying potential land acquisition and easement needs as early as possible and working collaboratively with DEP LAP to secure easements.



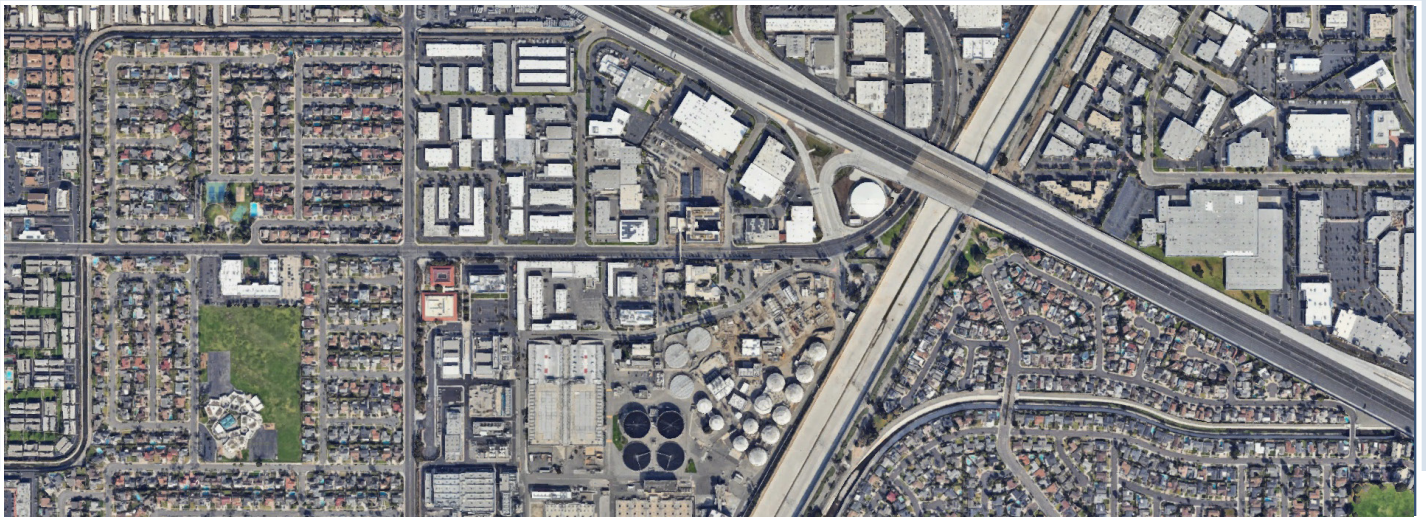
**Arcady Road Washout**



**Ashokan Roadways**







## Owner's Advisor Services

Orange County Sanitation District, Orange County, CA

Hazen is serving as Orange County Sanitation District's Owner's Advisor as OC San incorporates Progressive Design-Build (PDB) in its capital delivery program.

OC San is the third largest wastewater utility West of the Mississippi River, serving a population of roughly 2.6 million and a capital plan of approximately \$6.4 billion. Recent legislative changes in the State of California have allowed OC San to incorporate collaborative delivery as a means of project delivery.

OC San has tasked Hazen with developing tools, templates, and best practices to unlock the schedule, cost, and innovation benefits of PDB. This five-year, \$20M effort includes:

Facilitating the change management inherent to recalibrating an agency fully focused on design-bid-build to PDB, including shifting owner roles at various phases of the project lifecycle.

- Tools and templates to facilitate both a one-step and two-step progressive design-build delivery

### Relevance to Port St. Lucie

- Provided assistance in procurement of progressive design-build firm.
- Serving as extension of staff during the preconstruction phase.
- Established template agreement and RFP for PDB procurement.

### Start/End Date

Start Date: 12/2024

End Date: 11/2029

### Was Project Completed On Time and On Budget? If not, Why?

N/A. This project is ongoing and currently on schedule and on budget.

### Change Order Details

N/A. This project is ongoing.

### Subcontractors

None of the subconsultants from this project are proposed on this contract.

### Key People

Orlando Castro, PE, DBIA

Owner's Advisor/Project Engineer

Shelly Sipes, PMP

Project Controls

### Reference

Don Cutler

Program Manager

Orange County Sanitation District  
(714) 593-7098

dcutler@ocsan.gov



- A rubric to help OC San identify which candidate projects make sense for PDB versus projects where continued delivery in DBB is applicable
- Facilitating training and knowledge transfer organizationally. This includes Programmatic Roadmaps, training of various stakeholder groups, and facilitating changes to standard specifications and contracts

The core project includes the delivery of OC San's first two PDB projects:

1. J-137, which will rehabilitate the Ocean Outfalls. OC San's long outfall was placed into service in the early 1970s with an anticipated 50-year service life. This project will place the short outfall into reliable service and provide rehabilitation to the long outfall for an anticipated 25 year extension of service life. Marine construction exacerbates the highest degree of sensitivity to a robust condition assessment, health and safety protocols, and extensive outreach to regulators and the public.
2. J-133, a new laboratory facility for the agency. The current laboratory is outdated and inadequate for evolving regulatory requirements. OA will facilitate the procurement of a PDB to deliver a two-story 54,000-square-foot laboratory. Lab considerations include a high degree of seismic and HVAC reliability and a focus on "move management" to ensure continuity of operations for lab staff.



# SWIFT Full-Scale Implementation Program Management

Hampton Roads Sanitation District, Virginia Beach, VA

Hazen is part of the team providing program management, engineering, and environmental services, including use of Envision, for over \$1 B in new infrastructure.

HRSD's Sustainable Water Initiative for Tomorrow (SWIFT) will add advanced treatment to up to seven HRSD treatment plants by 2030 to produce water that complies with drinking water standards to recharge the Potomac Aquifer System with over 100 mgd of SWIFT water.

As part of the team, Hazen is providing:

- 30% design for bridging documents
- Environmental screening for all projects

## Relevance to Port St. Lucie

- 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
- Start-up and operational services
- Design-build contract management
- Design reviews
- Construction inspections

## Start/End Date

Start Date: 08/2018

End Date: 08/2030

## Was Project Completed On Time and On Budget? If not, Why?

N/A. This project is ongoing and currently on schedule and on budget.

## Change Order Details

N/A. This project is ongoing.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Patricia Carney, PE, DBIA  
Design-Build Project Advisor

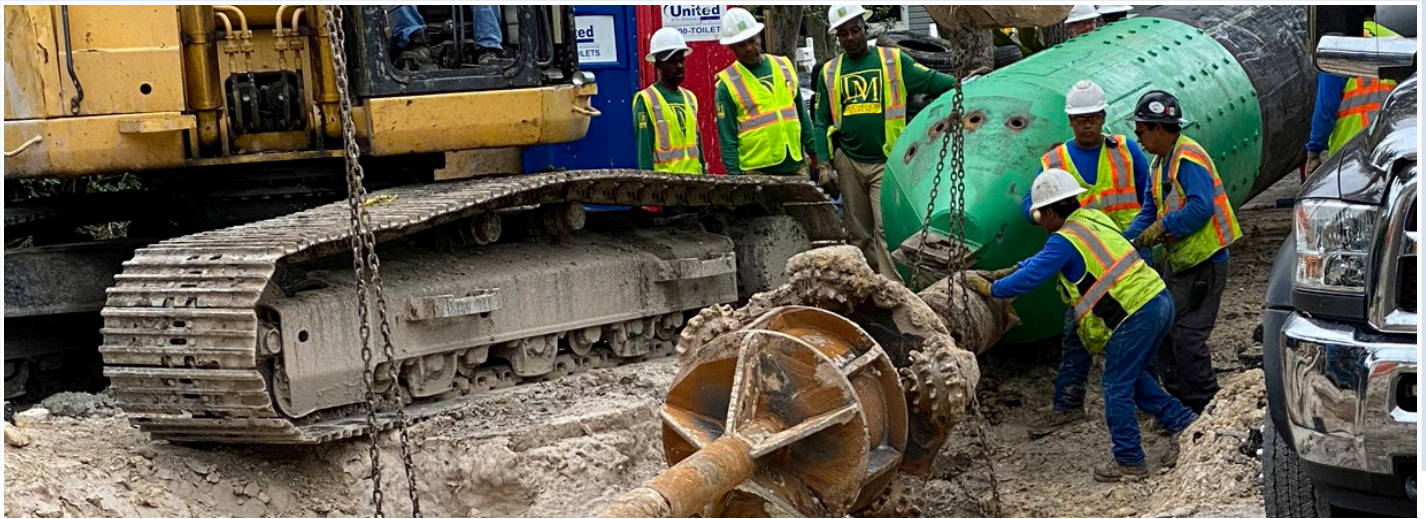
## Reference

Lauren Zuravnsky, PE  
Project Manager  
Hampton Roads Sanitation District  
(757) 355-5009  
lzuravnsky@hrsd.com

- Project and construction management services for multiple design-build projects
  - Commissioning and training services
- Hazen is using the Envision Sustainable Infrastructure Rating System to identify, track, and ensure implementation of HRSD's sustainability goals. Envision is being used to:
- Manage sustainability in design and construction for the SWIFT Full Scale Implementation Pilot (FSIP), as required.
  - Identify sustainable performance requirements for individual FSIP projects.
  - Specify performance requirements during generation of bridging documents.
  - Include sustainability elements in bridging document development.
  - Specify requirements to be included in DBB or D-B RFP and selection procedures.
  - Review sustainability requirements, performance, and coordination.
  - Review regular performance reports from DBB or D-B entities, and recommend corrective course.
  - Quantify and track initial carbon footprint for capital and operational items to help meet greenhouse gas emission reduction goals.







# Sewer Design and Implementation Program

Fort Lauderdale, FL

The City of Fort Lauderdale's Sewer Design and Implementation Program is under way to address requirements of a Consent Order (CO) with the Florida Department of Environmental Protection (FDEP), as well as to improve the management, operation, and maintenance of its sanitary sewer collection system.

The sanitary sewer system is a regional system that serves the City as well as four large users. It consists of 186 City-operated pump stations, five regional repump stations, 113 miles of force main, and 500 miles of gravity sewer that were built between 1954 and the present.

## Relevance to Port St. Lucie

- 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 representative
- 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 staff with project managers and inspectors to manage cost and schedule while completing internal reporting

## Start/End Date

Start Date: 12/2017

End Date: 12/2026

## Was Project Completed On Time and On Budget? If not, Why?

N/A . This project is ongoing.

## Change Order Details

N/A. This project is ongoing and currently on schedule and on budget.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Orlando Castro, PE, DBIA  
Task Manager

Patricia Carney, PE, DBIA, BCEE  
Project Manager

Guillermo Regalado, PE  
Technical Lead and Task Manager

## Reference

Omar Castellon, PE, PMP, ENV SP  
Assistant Director - Public Works  
City of Fort Lauderdale  
(954) 828-5064  
ocastellon@fortlauderdale.gov



Hazen serves as Program Manager for this effort and is responsible for implementation and coordination of projects to satisfy 40 CO deadlines. The project includes conducting a risk-based prioritization and condition assessment of the City's wastewater force mains. The work includes prioritization of force mains based on probability and consequence of failure, evaluation and recommendation of alternatives for collection of additional condition assessment data where needed, and development of recommendations for repair or replacement through short- and long-term planning periods.

**Key components of the Sewer Design and Implementation Program include:**

- Development of a Mapping Plan and mapping of the City's sanitary sewer collection system.
- Development and implementation of an Asset Management, Capacity Management, Operation, and Maintenance (AM-CMOM) Program for the City's wastewater collection and treatment systems. AM-CMOM efforts include condition assessment, risk analysis, and prioritization of assets for rehabilitation and/or replacement.
- Risk-based prioritization of pipeline repairs.
- Rehabilitation or replacement of approximately 75,000 linear feet of force main.
- Development, calibration, and application of a Wastewater Collection and Transmission System Hydraulic Model using Innovyze software. The model includes 113 miles of force mains and more than 170 pump stations.
- Development and calibration of a Water Distribution System Hydraulic Model using Innovyze software. The model includes 770 miles of pipes.
- Multi-phase force main condition assessment consisting of desktop analysis of all force mains and targeted physical inspection of medium- and high-risk force mains.
- Infiltration and inflow (I/I) reduction programs, including CCTV inspection and remediation where required, in six pump station basins (A-7, A-18, A-19, A-21, D-40, and D-43).
- New construction, rehabilitation, or replacement of seven pump stations (A-12, B-10, D-41, D-45, A-13, D-11, and D-38), including in-kind services for one of the pump stations and installation of approximately 3,800 linear feet of force main via horizontal direction drilling to offset FDEP penalties.
- Program management of the City's implementation of the Cityworks Enterprise Asset Management System.
- Reporting the progress of all Consent Order activities to FDEP on a semi-annual basis.



# West Melbourne New Water Treatment Plant Feasibility Analysis and Design, and Test/Production Well

West Melbourne, FL

Hazen was selected to provide piloting, preliminary and final design, and bidding services for a new 5-mgd water treatment plant (WTP). Hazen was also tasked with expedited design of the four water supply wells to serve the plant.

## WTP Preliminary Design and Pilot Testing

In 2019, Hazen was selected to conduct piloting, preliminary design, final design, and bidding services for a new 5-mgd membrane treatment plant. Raw water quality screenings were conducted and data in membrane projection software was used to predict membrane performance and select which elements to test during the pilot program. This process included performance factors such as permeate quality, rejection, and recovery; element availability; and costs.

### Relevance to Port St. Lucie

- Feasibility analysis for development of a new WTP and infrastructure
- Designed and implemented detailed testing plan to identify aquifer characteristics and assess production capacity with depth
- Piloting, preliminary and detailed design, and bidding services for the new 5-mgd WTP
- Consumptive use permitting

## Start/End Date

Preliminary Design and Pilot Testing:  
09/2021 - 09/2023

Detailed Design:  
10/2023 - 10/2024

Construction:  
03/2025 - 12/2026 (est. completion)

## Was Project Completed On Time and On Budget? If not, Why?

Design was completed on time and on budget; construction ongoing.

## Change Order Details

None to date.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Kurt Pfeffer, PE  
Project Manager

Monica Pazahanick, PE  
Membrane Process Design

Janeen Wietgreffe, PE, PMP  
Technical Advisor

Jennifer McMahon, PE  
Membrane Mechanical Design

Paul Biscardi, PhD, PE  
Membrane Predesign and Pilot Testing

Richard Franks, PE  
Membrane Projections

Following the piloting, Hazen recommended that the WTP consist of four reverse osmosis (RO) membrane treatment trains with the ability to add a train for future expansion. The WTP will include pre-treatment systems, post-treatment systems consisting of degasifiers and clearwell, chemical feed systems, storage, and high-service pumping necessary to produce high-quality, finished water delivered to the City's residents. The project will be constructed in the Northeast corner of the City's public works campus, adjacent to an existing water reclamation facility. Co-location of the WTP with the WRF will offer opportunities for the facilities to share resources.

**Production Wells**

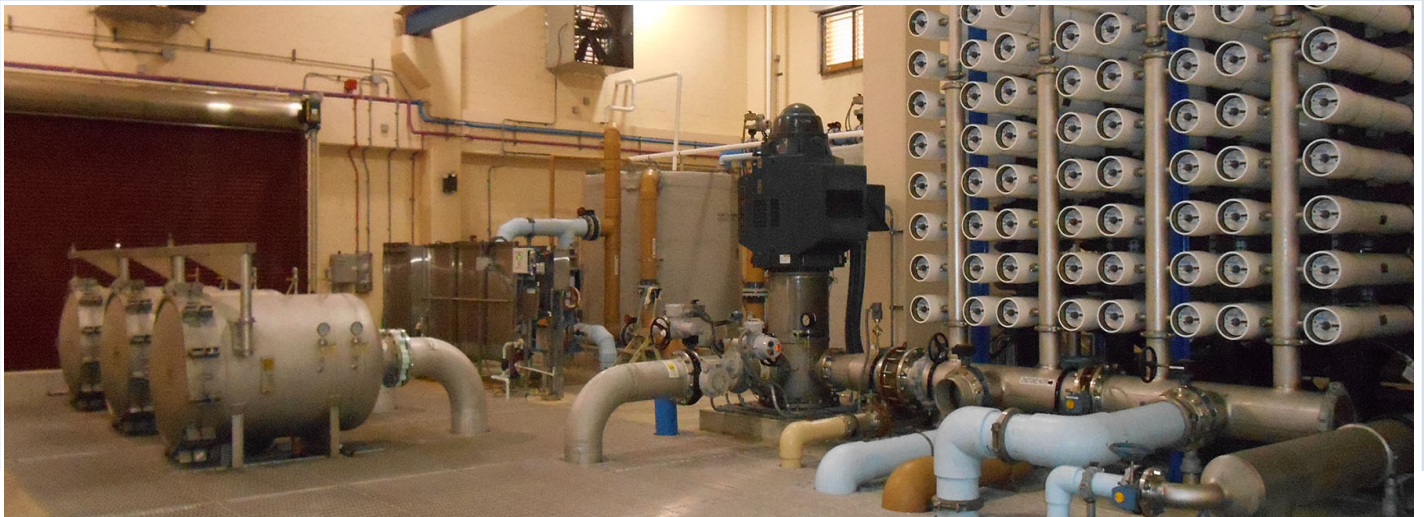
Hazen performed design, construction oversight, and testing of the first production well (PW-1) to collect hydrogeological data and support membrane treatment pilot testing. Viable sites for remaining production wells were identified.

Hazen also expedited design of the four water supply wells to serve the plant. Hazen developed and optimized a raw water transmission system hydraulic model in conjunction with WTP hydraulic modeling to select common well pumps, which will reduce future maintenance.

**Key People (cont'd.)**

- Philip Lauri, PE  
QC Review
  - Rose Jesse, CPE  
Cost Estimating
  - Jean Paul Silva, PE  
Structural
  - Jose Cano, PE  
Electrical
  - Evan Curtis, PE  
Instrumentation
  - David Witte, PE, CEM  
HVAC & Plumbing
  - Jason Johnson  
CAD/BIM
- Reference**
- Tom Bradford  
Assistant City Manager  
City of West Melbourne  
(321) 837-7757  
tbradford@westmelbourne.gov





# Membrane Softening Facility Reverse Osmosis Skid Addition

Hallandale Beach, FL

Hazen provided design and permitting for the City of Hallandale Beach's water supply well PW-9, three saltwater monitor wells, and one brackish water reverse osmosis (RO) train addition.

The RO train was designed for a permeate production capacity of 2 mgd with a feed water maximum salinity of 5,000 mg/L of total dissolved solids. Pretreatment design included raw water sand separators, five-micron cartridge filtration, anti-scalant, and sulfuric acid addition. Hazen designed the RO skid to be flexible for treatment of raw water from either the Broward County South Regional Wellfield or from the City wells, with the potential intrusion of salt water. Hazen also configured the proposed raw water piping modifications necessary to enable the full flexibility for the RO skid. The RO skid, designed for a range of salinities, will be equipped with an energy recovery turbine. **This turbine will recover energy from the concentrate and provide a pressure boost for the second stage feed, saving the City electrical costs associated with feed pumping.**

## Relevance to Port St. Lucie

- Developed detailed design drawings, developed specifications, and provided 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

## Start/End Date

Start Date: 01/2014

End Date: 08/2016

## Was Project Completed On Time and On Budget? If not, Why?

This project was completed on time and on budget.

## Change Order Details

<1%

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Janeen Wietgreffe, PE, PMP  
Process Mechanical Engineer

Jennifer McMahon, PE  
Project Manager and Lead Design Engineer

George Brown, PE  
Project Engineer

## Reference

Jeff Odoms, MA, FAEM  
Public Works Director  
City of Hallandale Beach  
(954) 457-1669  
JOdoms@hallandalebeachfl.gov



# Miramar East WTP Improvements (6-mgd Membrane Softening Facility)

Miramar, FL

Hazen was selected by the City of Miramar to provide planning, engineering reporting, engineering design, technical specifications, contract preparation, permitting, construction management, start-up, and all other necessary engineering services for a complete delivery of the project.

The City of Miramar East Water Treatment Plant (EWTP) had a 6-mgd lime softening facility which treated raw water from nine Biscayne Aquifer production wells. The facility has been in operation since the 1950s, with expansion modifications made during the 1960s. Though the plant was currently rated at 5.7 mgd, the average daily flow was closer to 4.0 mgd.

The City elected to upgrade the EWTP with the addition of membrane softening treatment, which would improve finished water quality and overall treatment reliability, maximize treatment capacity of the existing site, and allow ultimate decommissioning of the facility's aging lime softening infrastructure.

## Relevance to Port St. Lucie

- Served as design criteria professional for the 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

## Start/End Date

Start Date: 06/2015

End Date: 09/2019

## Was Project Completed On Time and On Budget? If not, Why?

This project was completed on time and on budget.

## Change Order Details

No change orders to design-build criteria package.

## Subcontractors

None of the subconsultants from this project are proposed on this contract.

## Key People

Janeen Wietgreffe, PE, PMP  
Quality Control

Orlando Castro, PE, DBIA  
Project Engineer

## Reference

Francois Domond, PE  
Director of Utilities Department  
City of Miramar  
(954) 883-6813  
fdomond@miramarfl.gov

Once Hazen submitted the Preliminary Design Report, the City elected to proceed via Design-Build delivery.

Hazen provided civil, mechanical, and process engineering for the preliminary design of a new 6-mgd membrane softening facility to replace the aging lime softening plant. Raw water blending of 5% may be possible, and would increase the new EWTP's finished water production capacity to 6.3 mgd.

The project included the design of new raw water supply facilities, including five new Biscayne Aquifer wells and associated transmission piping and a concentrate disposal system. The membrane facility includes pretreatment chemical storage and feed facilities, cartridge filtration, feed pumping, nanofiltration membrane arrays, a membrane clean-in-place system, and post-treatment chemical storage and feed facilities for finished water stabilization and corrosion control in the distribution system. The treatment facility will be also equipped with new electrical facilities and instrumentation and control systems.

In general, the EWTP will be capable of operating continuously during the installation of up to 6 mgd of membrane softening treatment capacity within the existing facilities. Only minimal interruptions are anticipated, primarily related to electrical installations requiring short-term electrical shutdowns for connections to existing electrical equipment.

The 2014 order of magnitude project cost estimate to provide 6 mgd of membrane softening treatment capacity is estimated to be approximately \$12.5 million. This includes new raw water wells and transmission system, cartridge filters, membrane skids, membrane feed pumps, concentrate and permeate pipelines, pre-treatment and post-treatment chemicals, electrical and I&C upgrades, miscellaneous building modifications, and sitework. This estimate also includes design and engineering services and contingency.



# 4 Methodology/ Approach



# 4 Methodology/ Approach

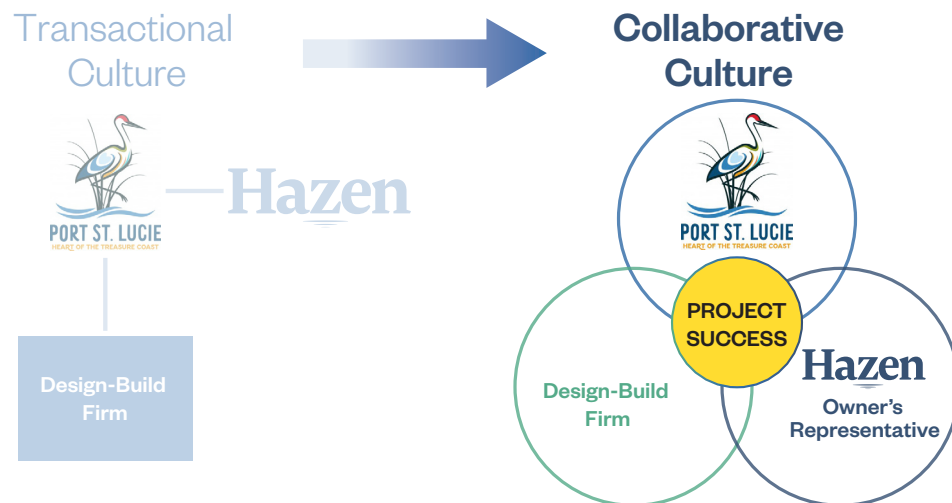
The Hazen team provides the right approach and methodology to serve as the City's Owner's Representative and to help deliver the Progressive Design-Build Water Treatment Plant project.

## 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 well-suited for times of price uncertainty and supply chain issues, which cause long lead times, by reducing risk and ultimately lowering costs for the City.

We understand the diverse roles within the PDB delivery team and have proven experience as an Owner's Representative, guiding the shift from a traditional transactional culture to a more collaborative and cohesive one—ultimately ensuring a successful project for the City.

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



**As part of this Section, we will provide our approach to the four points requested in the RFQ:**

- How does the Owners' Rep prepare, both themselves and the Owner, to achieve a successful design?
- Does the Owners' Rep see the need for the Owner to begin collaboration with other departments and/or begin public outreach? Even before the Design-Build firm is selected, as there will be a gap.
- What does the Owners' Rep suggest as a reasonable timeline of events to help guide the Owner and mitigate expectations?
- What challenges does the Owners' Rep foresee that can be mitigated early by the Owners' Rep, Owner, and/or Design-Build firm?

## Preparing for a Successful Design

As Owner's Representative, Hazen will partner with the City to ensure a successful design. The table below highlights select risks and challenges that the City and/or selected PDB may encounter that affect reaching a successful design.

| Preparing the Owner's Rep:                    |   |
|---|---|
| <b>1. Understand the PDB Process</b>          | The Owner's Rep should have a thorough understanding of the PDB process, including its collaborative and phased approach.                   |
| <b>2. Develop Strong Communication Skills</b> | Effective communication is essential for facilitating collaboration between the owner, design team, and construction team.                  |
| <b>3. Build Relationships</b>                 | Establishing strong relationships with all stakeholders early on helps in aligning goals and expectations.                                  |
| <b>4. Stay Informed</b>                       | Keeping up-to-date with industry trends, best practices, and regulatory requirements ensures the Owner's Rep can provide informed guidance. |

| Preparing the Owner:                 |   |
|--------------------------------------|---|
| <b>1. Define Clear Objectives</b>    | Work with the owner to clearly define project goals, budget, and timeline. This helps in setting realistic expectations and guiding the design process. |
| <b>2. Engage Early</b>               | Encourage the owner to engage with the design-build team early in the process. This allows for better alignment and collaboration from the start.       |
| <b>3. Promote Transparency</b>       | Foster an environment of open communication and transparency, particularly regarding costs and schedules.   |
| <b>4. Facilitate Decision-Making</b> | Help the owner understand the importance of timely decision-making to keep the project on track.  |

**We have the experts to guide and advise**  
the City every step of the way, to efficiently and cost-effectively deliver a  
successful design to Port St. Lucie residents.



## Collaborating with Stakeholders during PDB Delivery

The Hazen team believes that early outreach of key stakeholders before the design-build firm is on board is important to ensure project success.

The following table presents examples of outreach during the life of the PDB project and its potential benefit to the project.

### During Design-Build Firm Procurement

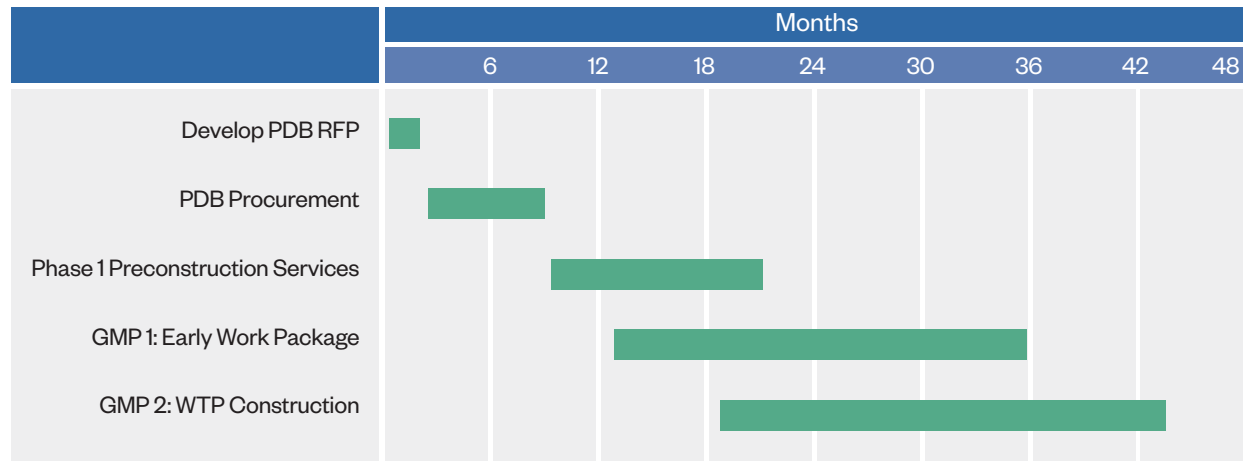
| Stakeholder Outreach               | Benefits   |
|------------------------------------|--|
| <b>City Legal Department</b>       | Obtain buy-in on PDB agreement early and issuing it as part of the PDB RFP will save time on negotiations later on.                                    |
| <b>City Procurement Department</b> | Have Procurement agree on PDB selection process to help expedite advertising the PDB RFP.  |
| <b>City Council</b>                | Present the PDB approach to the City Council for early buy-in before they see the agenda item to approve the Phase 1 contract.                         |
| <b>Permitting Agencies</b>         | Begin identifying permits to include the Permitting Matrix in the RFP; begin conversation and education on how this project will be delivered via PDB. |

### During PDB Phase 1 (Preconstruction Phase)

| Stakeholder Outreach                            | Benefits  |
|---|---|
| <b>City Planning and Zoning Department</b>      | Will understand the department's requirements and incorporate them into the site plant design to obtain approval by their department and help the project schedule.   |
| <b>City Building Department</b>                 | Better define building department review time and process to help the expedited schedule. Also be able to explain to the Building Department how potentially this project might be broken up into multiple packages and they might not be reviewing the entire design in one set. |
| <b>City Council</b>                             | Keeping the City Council educated on the progress of the project, estimated project cost updates, how there might be multiple GMPs they will be approving, and keeping them up-to-date on the project cost will help ease approval of GMPs when it comes before them.             |
| <b>Environmental/Health Permitting Agencies</b> | Early collaboration will lead to a design that will be easily permitted by the associated agencies.   |
| <b>Public Outreach</b>                          | Education of the project obtains early buy-in from community and can lead to improvements to design to satisfy community concerns.  |

## Reasonable Timeline of Events for the PDB Project

The following graphic represents our team's assessment of a reasonable timeline of events. Due to the time constraint of having the water plant in operation as soon as possible, we are assuming the procurement can be done with a one-step best-value procurement method. This will save time in procuring the design-builder. During preconstruction (Phase 1), we are assuming that at least two packages will be identified that will require that two Guaranteed Maximum Price (GMP) proposals be negotiated and approved. The first GMP will be an Early Works Package to procure long lead equipment and potentially begin mobilization and site work. The second GMP will be for the construction, startup and commissioning of the new water treatment plant.



## Challenges that can be Mitigated Early by Owner's Rep, Owner, and/or Design-Build firm

Some of the challenges that can be mitigated early by the Owner's Rep, Owner or Design-Build Firm include:

1. Clear Project Objectives
  - Owner's Rep: Ensures that the project goals are well-defined and communicated to all stakeholders.
  - Owner: Provides a clear vision and requirements for the project.
  - Design-Build Firm: Aligns design and construction plans with the Owner's objectives.
2. Budget and Cost Management
  - Owner's Rep: Monitors the budget and implements cost control measures.
  - Owner: Approves budgets and ensures adequate funding.
  - Design-Build Firm: Provides accurate cost estimates and manages resources efficiently.
3. Communication and Collaboration
  - Owner's Rep: Facilitates communication between all parties to ensure smooth project execution.
  - Owner: Participates in regular meetings and stays informed about project progress.
  - Design-Build Firm: Uses collaborative tools and practices to keep everyone on the same page.

#### 4. Risk Management

- Owner's Rep: Identifies initial risk register with potential risks and mitigation strategies.
- Owner: Supports risk management plans and allocates resources for contingencies.
- Design-Build Firm: Maintains and updates the risk register and monitors for potential issues.

#### 5. Time Management

- Owner's Rep: Tracks project timelines and ensures milestones are met.
- Owner: Sets realistic deadlines and monitors progress.
- Design-Build Firm: Plans and schedules work efficiently to avoid delays.

#### 6. Quality Control

- Owner's Rep: Oversees quality assurance processes during design and construction to ensure standards are met.
- Owner: Defines quality expectations and reviews deliverables.
- Design-Build Firm: Adheres to quality standards and conducts regular inspections.



5

## Certified Minority Business Enterprise



# 5 Certified Minority Business Enterprise

Hazen has a strong commitment to including minority/women business enterprises (M/WBEs) on our project teams.

Hazen is not a certified minority business enterprise as defined by the Florida Small and Minority Business Assistance Act of 1985. However, we have a strong commitment to including M/WBEs on our project teams.

Our team includes certified State of Florida M/WBE subconsultant Holtz Consulting Engineers, Inc. (Deputy Project Manager; Technical Advisory Committee; Funding Assistance; Inspection). Their minority certificate is provided on the following pages.

## Subconsultant Holtz is an M/WBE.

Some of Hazen's previous M/WBE, CBE, and SBE efforts are also highlighted below.

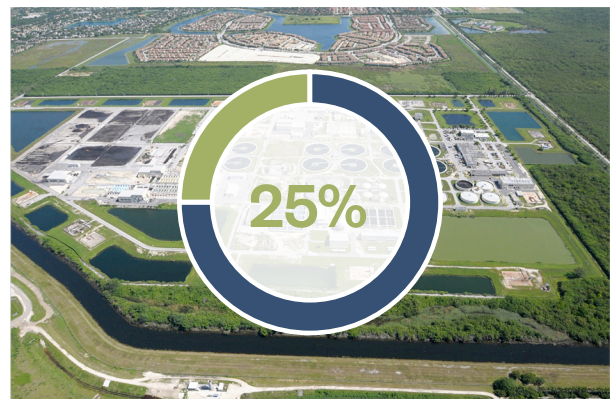
Although no specific goal is identified in the RFQ,

**Hazen commits to maximizing M/WBE participation on this project.**



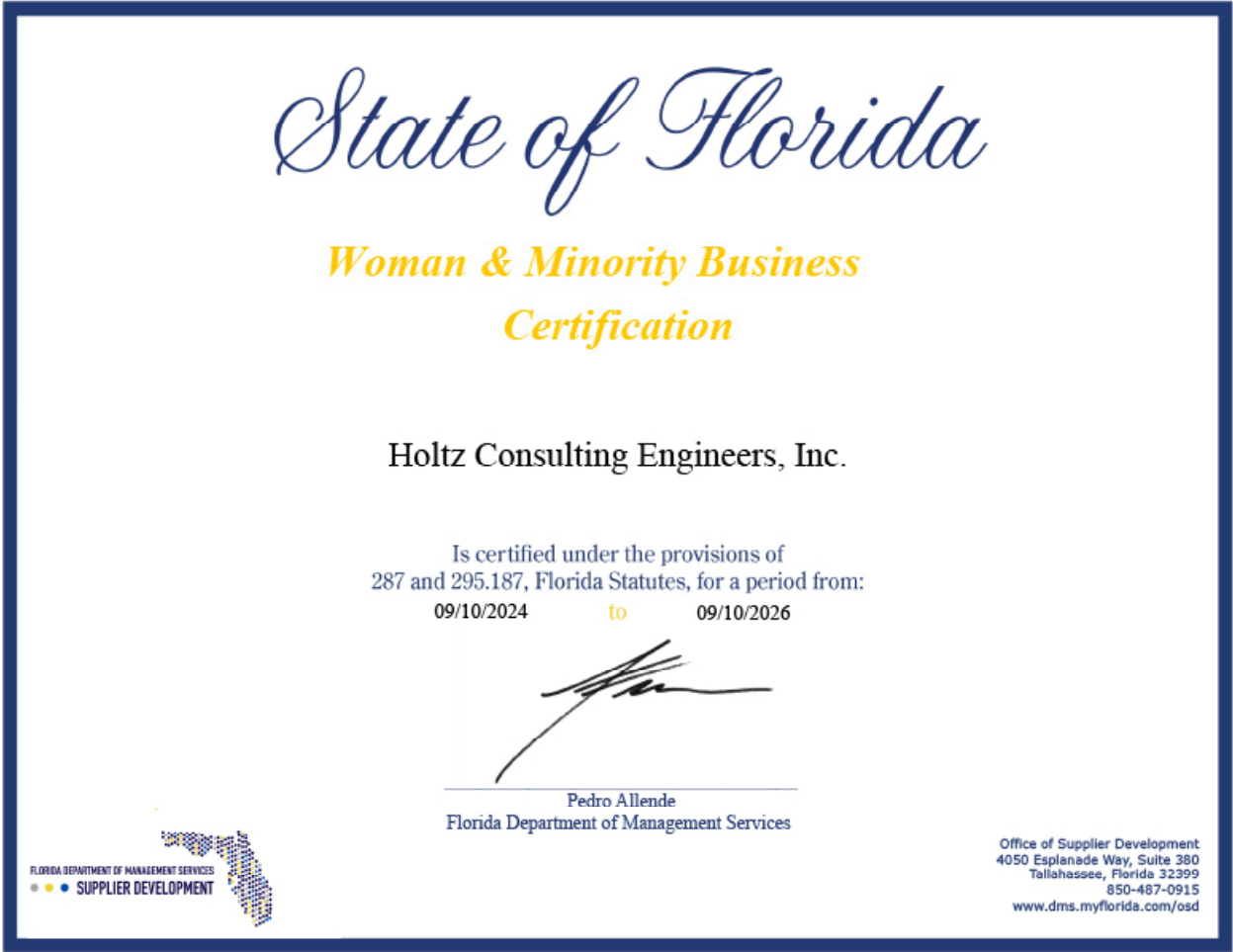
### Broward County Water and Wastewater Contracts

Hazen has continuously employed county business enterprises (CBE)/small businesses on County contracts per Broward County requirements since the 1990s and continues to do so today for our active contracts. Presently, Hazen has committed over 25% of the total contract value for four active Broward contracts to CBE firms. To date, we have earned approximately over half (\$37.7 million) of the total contracted amount and have already **paid out \$9.5 million to the local CBE firms, demonstrating the reality of our overall 25% commitment.**



### MDWASD South District Wastewater Treatment Plant High Level Disinfection Contract

For the Miami-Dade Water and Sewer Department South District Wastewater Treatment Plant High Level Disinfection contract (2004-2014), **approximately \$10.7 million of Hazen's \$42.9 million fee was paid to Miami-Dade County certified small businesses.**







**Office of Equal Opportunity**  
**M/WBE Program**  
P.O. Box 3366  
West Palm Beach, FL 33402  
Tel. (561) 822-2100  
Fax (561) 822-1564  
TTY: 1-800-955-8771  
[www.wpb.org/procurement](http://www.wpb.org/procurement)

*“The Capital City of the Palm Beaches”*

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November 3, 2022

Holtz Consulting Engineers Inc.  
Attention: Andrea Holtz  
270 South Central Blvd Ste #207  
Jupiter, Florida 33458

Dear Mrs. Holtz:

Congratulations! Your company has been certified as a Minority/Women Business Enterprise with the City of West Palm Beach. Your certification will remain in effect until **November 2, 2025**.

There are many benefits to certification with the City, which include:

-  Notification of opportunities to participate in City contracts in your business area of specialty;
-  Providing your business and contact information to contractors who are selected for major bids;

Please notify us of any changes in ownership, control of your company or contact information during the period of your certification. If we can assist you in any way, please do not hesitate to call on us.

Sincerely,

A handwritten signature in cursive script that reads 'Frank Hayden'.

Frank Hayden  
Director Office of Equal Opportunity

Encls.

# Mandatory Documents





HAZE&amp;SA-01

KSUTTON

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/20/2025

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

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

|  |   |                               |        |
|--|---|-------------------------------|--------|
| PRODUCER<br>Ames & Gough<br>8300 Greensboro Drive<br>Suite 980<br>McLean, VA 22102 | CONTACT NAME:   |                               |        |
|  | PHONE (A/C, No, Ext): (703) 827-2277                          | FAX (A/C, No): (703) 827-2279 |        |
|  | E-MAIL ADDRESS: admin@amesgough.com                           |                               |        |
|  | INSURER(S) AFFORDING COVERAGE                                 |                               | NAIC # |
|  | INSURER A : American Casualty Co of Reading, PA A(XV)         |                               | 20427  |
| INSURED<br><br>Hazen and Sawyer<br>498 Seventh Avenue<br>New York, NY 10018        | INSURER B : National Fire Insurance Company of Hartford A(XV) |                               | 20478  |
|  | INSURER C : Continental Casualty Company (CNA) A, XV          |                               | 20443  |
|  | INSURER D :   |                               |        |
|  | INSURER E :   |                               |        |
|  | INSURER F :   |                               |        |

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

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

| INSR LTR | TYPE OF INSURANCE   | ADDL INSD   | SUBR WVD   | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY)  | LIMITS  |
|----------|---|---|--|---------------|-------------------------|--------------------------|---|
| A        | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY  |   |  | 7036845683    | 3/29/2024               | 3/29/2025                | EACH OCCURRENCE \$ 1,000,000  |
|          | <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR                            |   | DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 |               |                         |                          |   |
|          | <input checked="" type="checkbox"/> Contractual Liab.   |   | MED EXP (Any one person) \$ 15,000                     |               |                         |                          |   |
|          |   |   | PERSONAL & ADV INJURY \$ 1,000,000                     |               |                         |                          |   |
|          | GEN'L AGGREGATE LIMIT APPLIES PER:  |   |  |               |                         |                          | GENERAL AGGREGATE \$ 2,000,000  |
|          | <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC |   |  |               |                         |                          | PRODUCTS - COMP/OP AGG \$ 2,000,000   |
|          | OTHER:  |   |  |               |                         |                          | \$  |
| B        | <input checked="" type="checkbox"/> AUTOMOBILE LIABILITY  |   |  | 7036845635    | 3/29/2024               | 3/29/2025                | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000                                |
|          | <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS    |   | BODILY INJURY (Per person) \$                          |               |                         |                          |   |
|          | <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY                   |   | BODILY INJURY (Per accident) \$                        |               |                         |                          |   |
|          |   |   | PROPERTY DAMAGE (Per accident) \$                      |               |                         |                          |   |
|          |   |   |  |               |                         | Comp./Coll. Ded \$ 1,000 |   |
|          | <input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR                                     |   |  |               |                         |                          | EACH OCCURRENCE \$  |
|          | <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE                                 |   |  |               |                         |                          | AGGREGATE \$  |
|          | DED <input type="checkbox"/> RETENTION \$   |   |  |               |                         |                          | \$  |
| A        | <input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY                         |   |  | 7036845652    | 3/29/2024               | 3/29/2025                | <input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER |
|          | ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)                               | <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N | N/A  |               |                         |                          | E.L. EACH ACCIDENT \$ 1,000,000   |
|          | If yes, describe under DESCRIPTION OF OPERATIONS below  |   |  |               |                         |                          | E.L. DISEASE - EA EMPLOYEE \$ 1,000,000   |
|          |   |   |  |               |                         |                          | E.L. DISEASE - POLICY LIMIT \$ 1,000,000  |
| C        | <input checked="" type="checkbox"/> Professional Liab.  |   |  | AEH008231489  | 3/29/2024               | 3/29/2025                | Per Claim/Aggregate 2,000,000   |

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

RE: Request For Proposal #20250065 - Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

City of Port St. Lucie, a municipality of the State of Florida, its officers, employees and agents are included as additional insured with respect to General Liability and Automobile Liability when required by written contract. General Liability and Automobile Liability are primary and non-contributory over any existing insurance and limited to liability arising out of the operations of the named insured and when required by written contract. General Liability, Automobile Liability, and Workers Compensation policies include a waiver of subrogation in favor of the additional insureds where permissible by state law and when required by written contract. 30-day Notice of Cancellation will be issued for the General Liability, Automobile Liability, Workers Compensation and SEE ATTACHED ACORD 101

## CERTIFICATE HOLDER

## CANCELLATION

|  |  |
|--|--|
| City of Port St. Lucie<br>121 SW Port St. Lucie Blvd<br>Port Saint Lucie, FL 34984 | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. |
|  | AUTHORIZED REPRESENTATIVE<br>  |





## ADDITIONAL REMARKS SCHEDULE

|                                    |                             |  |
|------------------------------------|-----------------------------|--|
| AGENCY<br><b>Ames &amp; Gough</b>  |                             | NAMED INSURED<br><b>Hazen and Sawyer</b><br>498 Seventh Avenue<br>New York, NY 10018 |
| POLICY NUMBER<br><b>SEE PAGE 1</b> |                             |  |
| CARRIER<br><b>SEE PAGE 1</b>       | NAIC CODE<br><b>SEE P 1</b> | EFFECTIVE DATE: <b>SEE PAGE 1</b>  |

## ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,  
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:  
Professional Liability policies in accordance with policy terms and conditions.

Pollution Liability coverage is provided and included within the Professional Liability policy noted above. It shares the limits of the Professional Liability policy.

**Blanket Additional Insured - Owners, Lessees or Contractors -  
with Products-Completed Operations Coverage Endorsement**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

It is understood and agreed as follows:

- I. WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **Coverage Part**, but only with respect to liability for **bodily injury, property damage or personal and advertising injury** caused in whole or in part by your acts or omissions, or the acts or omissions of those acting on your behalf:
- A.** In the performance of your ongoing operations subject to such **written contract**; or
  - B.** In the performance of **your work** subject to such **written contract**, but only with respect to **bodily injury or property damage** included in the **products-completed operations hazard**, and only if:
    - 1. The **written contract** requires you to provide the additional insured such coverage; and
    - 2. This **Coverage Part** provides such coverage; and
  - C.** Subject always to the terms and conditions of this policy, including the limits of insurance, the Insurer will not provide such additional insured with:
    - 1. Coverage broader than what you are required to provide by the **written contract**; or
    - 2. A higher limit of insurance than what you are required to provide by the **written contract**.

Any coverage granted by this Paragraph **I.** shall apply solely to the extent permissible by law.

- II.** If the written contract requires additional insured coverage under the 07-04 edition of CG2010 or CG2037, then paragraph **I.** above is deleted in its entirety and replaced by the following:

**WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **Coverage Part**, but only with respect to liability for **bodily injury, property damage or personal and advertising injury** caused in whole or in part by your acts or omissions, or the acts or omissions of those acting on your behalf:

- A.** In the performance of your ongoing operations subject to such **written contract**; or
- B.** In the performance of **your work** subject to such **written contract**, but only with respect to **bodily injury or property damage** included in the **products-completed operations hazard**, and only if:
  - 1. The **written contract** requires you to provide the additional insured such coverage; and
  - 2. This **Coverage Part** provides such coverage.

- III.** But if the **written contract** requires:

- A.** Additional insured coverage under the 11-85 edition, 10-93 edition, or 10-01 edition of CG2010, or under the 10-01 edition of CG2037; or
- B.** Additional insured coverage with "arising out of" language;

then paragraph **I.** above is deleted in its entirety and replaced by the following:

**WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **Coverage Part**, but only with respect to liability for **bodily injury, property damage or personal and advertising injury** arising out of **your work** that is subject to such **written contract**.

10020005120959950518698



**Blanket Additional Insured - Owners, Lessees or Contractors -  
with Products-Completed Operations Coverage Endorsement**

- IV. But if the **written contract** requires additional insured coverage to the greatest extent permissible by law, then paragraph I. above is deleted in its entirety and replaced by the following:

**WHO IS AN INSURED** is amended to include as an **Insured** any person or organization whom you are required by **written contract** to add as an additional insured on this **Coverage Part**, but only with respect to liability for **bodily injury, property damage or personal and advertising injury** arising out of **your work** that is subject to such **written contract**.

- V. The insurance granted by this endorsement to the additional insured does not apply to **bodily injury, property damage, or personal and advertising injury** arising out of:

- A. The rendering of, or the failure to render, any professional architectural, engineering, or surveying services, including:
1. The preparing, approving, or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
  2. Supervisory, inspection, architectural or engineering activities; or
- B. Any premises or work for which the additional insured is specifically listed as an additional insured on another endorsement attached to this **Coverage Part**.

- VI. Under **COMMERCIAL GENERAL LIABILITY CONDITIONS**, the Condition entitled **Other Insurance** is amended to add the following, which supersedes any provision to the contrary in this Condition or elsewhere in this **Coverage Part**:

**Primary and Noncontributory Insurance**

With respect to other insurance available to the additional insured under which the additional insured is a named insured, this insurance is primary to and will not seek contribution from such other insurance, provided that a **written contract** requires the insurance provided by this policy to be:

1. Primary and non-contributing with other insurance available to the additional insured; or
2. Primary and to not seek contribution from any other insurance available to the additional insured.

But except as specified above, this insurance will be excess of all other insurance available to the additional insured.

- VII. Solely with respect to the insurance granted by this endorsement, the section entitled **COMMERCIAL GENERAL LIABILITY CONDITIONS** is amended as follows:

The Condition entitled **Duties In The Event of Occurrence, Offense, Claim or Suit** is amended with the addition of the following:

Any additional insured pursuant to this endorsement will as soon as practicable:

1. Give the Insurer written notice of any **claim**, or any **occurrence** or offense which may result in a **claim**;
2. Send the Insurer copies of all legal papers received, and otherwise cooperate with the Insurer in the investigation, defense, or settlement of the **claim**; and
3. Make available any other insurance, and endeavor to tender the defense and indemnity of any **claim** to any other insurer or self-insurer, whose policy or program applies to a loss that the Insurer covers under this **coverage part**. However, if the **written contract** requires this insurance to be primary and non-contributory, this paragraph 3. does not apply to other insurance under which the additional insured is a named insured.

The Insurer has no duty to defend or indemnify an additional insured under this endorsement until the Insurer receives written notice of a **claim** from the additional insured.



**Blanket Additional Insured - Owners, Lessees or Contractors -  
with Products-Completed Operations Coverage Endorsement**

VIII. Solely with respect to the insurance granted by this endorsement, the section entitled **DEFINITIONS** is amended to add the following definition:

**Written contract** means a written contract or written agreement that requires you to make a person or organization an additional insured on this **Coverage Part**, provided the contract or agreement:

A. Was executed prior to:

1. The **bodily injury or property damage**; or
2. The offense that caused the **personal and advertising injury**;

for which the additional insured seeks coverage; and

B. Is still in effect at the time of the **bodily injury or property damage occurrence or personal and advertising injury** offense.

All other terms and conditions of the Policy remain unchanged.

This endorsement, which forms a part of and is for attachment to the Policy issued by the designated Insurers, takes effect on the effective date of said Policy at the hour stated in said Policy, unless another effective date is shown below, and expires concurrently with said Policy.

10020005120959950518699





ADDITIONAL INSURED - PRIMARY AND NON-CONTRIBUTORY

It is understood and agreed that this endorsement amends the **BUSINESS AUTO COVERAGE FORM** as follows:

**SCHEDULE**

**Name of Additional Insured Person Or Organization**

ANY PERSON OR ORGANIZATION THAT YOU ARE REQUIRED BY WRITTEN CONTRACT OR WRITTEN AGREEMENT TO NAME AS AN ADDITIONAL INSURED.

1. In conformance with paragraph **A.1.c.** of **Who Is An Insured** of Section **II - LIABILITY COVERAGE**, the person or organization scheduled above is an insured under this policy.
2. The insurance afforded to the additional insured under this policy will apply on a primary and non-contributory basis if you have committed it to be so in a written contract or written agreement executed prior to the date of the "**accident**" for which the additional insured seeks coverage under this policy.

All other terms and conditions of the policy remain unchanged

This endorsement, which forms a part of and is for attachment to the policy issued by the designated Insurers, takes effect on the Policy Effective date of said policy at the hour stated in said policy, unless another effective date (the Endorsement Effective Date) is shown below, and expires concurrently with said policy.

Form No: CNA71527XX (10-2012)  
Endorsement Effective Date:  
Endorsement No:  
Underwriting Company: National Fire Insurance Of Hartford

Policy No: 7036845635  
Policy Effective Date: 3/29/24  
Policy Page: 7036845635



**RFP #20250065**  
**CONSULTANT'S GENERAL INFORMATION WORK SHEET**

1. Corporation, Partnership, Joint Venture, Individual or other? Hazen and Sawyer is a corporation.

2. Firm's name and main office address, telephone and fax numbers

Name: Hazen and Sawyer

Address: 2101 NW Corporate Boulevard, Suite 301

Boca Raton, FL 33431

Telephone Number: (561) 997-8070

Fax Number: N/A

3. Contact person: Kurt A. Pfeffer, PE Email: kpfeffer@hazenandsawyer.com

4. Firm's previous names (if any). N/A

5. List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10 %) interest:

See attached listing.

(N/A is not an acceptable answer - insert lines if needed)

6. List any judgments from lawsuits in the last five (5) years:

None

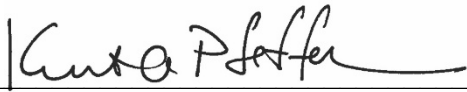
(N/A is not an acceptable answer - insert lines if needed)



7. List any criminal violations and/or convictions of the Proposer and/or any of its principals:

None

(N/A is not an acceptable answer - insert lines if needed)



Signature

Associate Vice President

Title

Hazen and Sawyer  
Pending and Completed Lawsuits - Five Years

| Case Name   | Description  | Date of Action | Date Closed | Outcome   | Identification Number             | Court  |
|---|--|----------------|-------------|-----------|-----------------------------------|--|
| Ronald Valerio against Hazen and Sawyer, D.P.C., Eaton Electric, Inc. and Five Star Electric Corporation  | Mr. Valerio, an employee of contractor WDF, alleges an employee of an electrical contractor injured him at the Bowery Bay WWTP.  | 3/19/15        | 06/10/20    | Dismissed | Index No. 306522/14               | Supreme Court of the State of New York, County of Bronx                                      |
| Michael D'Amato and Josephine D'Amato vs. WDF Development, LLC, WDF, Inc., American Insurance Group, American Insurance Corporation, American International Group, Inc., Insurance Company of the State of Pennsylvania, "John Doe," Lasalle LaSalle & Dwyer, PC, Sean P. Dwyer, Leo Dudin, Anthony Colaizzi, and Hazen and Sawyer. | Michael D'Amato an employee of the City of New York alleges he was caused to trip and fall as a result of the negligence of WDF Development, LLC.  | 9/30/20        | 03/08/21    | Dismissed | Index No.: 157484/2020            | Supreme Court of the State of New York, County of New York                                   |
| 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.   | 11/9/20        | 09/20/21    | Dismissed | Case No. 16 CA 013117 MB-AF       | In the Circuit Court of the Fifteenth Judicial Circuit in and for Palm Beach County, Florida |
| 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.   | 7/24/19        | 05/18/22    | Settled   | Civil Action No. 1:19-cv-540      | United States District Court for the Middle District of North Carolina                       |
| 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.  | 7/26/17        | 08/02/22    | Settled   | Index No. 511003/2015             | Supreme Court of the State of New York, County of Kings                                      |
| Scott Baptiste and Elizabeth Baptiste against The City of New York and A.J. Pegno Construction Corp./Tully Construction Company Inc. 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. | 12/13/13       | 9/7/23      | Settled   | Index No.: 11654/09               | Supreme Court of the State of New York, County of Kings                                      |
| Darline S. Spenser v. McCormick, Time, et al (Hollywood class action)   | Hazen was named in a lawsuit filed by Ms. Spencer. The lawsuit did not contain any claims against the Firm. The court dismissed the lawsuit with prejudice.  | 12/18/23       | 07/26/24    | Dismissed | Case No.23-62214-CIV-DAMIAN/Valle | United States District Court, Southern District of Florida                                   |
| 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.  | 2/15/19        | Open        | Open      | 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.   | 11/13/19       | Open        | Open      | Index no: 159692/2019             | Supreme Court of the State of New York, County of New York                                   |
| Vincent Calcagno Jr., v. Capry Group, Inc., Delphi Plumbing & Heating, Inc., Hazen and Sawyer, D.P.C., and the City of New York   | Vincent Calcagno, an employee of the City of New York alleges he was caused to trip and fall at the Rockaway Water Treatment Control Plant.  | 12/31/24       | Open        | Open      | Index No.: 723420/2024            | Supreme Court of the State of New York, County of Queens                                     |



### E-Verify Form

#### Supplier/Consultant acknowledges and agrees to the following:

1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
3. The Contractor hereby represents that it is in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes. The Contractor further represents that it will remain in compliance with the requirements of Sections 448.09 and 448.095 Florida Statutes, during the term of this contract and all attributed renewals.
4. The Contractor hereby warrants that it has not had a contract terminated by a public employer for violating Section 448.095, Florida Statutes, within the year preceding the effective date of this contract. If the Contractor has a contract terminated by a public employer for any such violation during the term of this contract, it must provide immediate notice thereof to the City.

E-Verify Company Identification Number

252295

Date of Authorization

September 15, 2009

Name of Contractor

Hazen and Sawyer

Name of Project

Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

Solicitation Number  
(If Applicable)

RFQ No. 20250065

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on March, 7, 2025 in Boca Raton (city), FL (state).

Signature of Authorized Officer

Kurt Pfeffer, PE, Associate Vice President

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 7th DAY OF March, 2025.

NOTARY PUBLIC Mary Perez (Commission # HH232289)

My Commission Expires: February 22, 2026







**NON-COLLUSION AFFIDAVIT**

RFP No. #20250065

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

State of Florida }

County of Palm Beach }

Kurt Pfeffer, PE, being first duly sworn, disposes and says that:  
(Name/s)

1. They are an Associate Vice President of Hazen and Sawyer the Proposer that  
(Title) (Name of Company)

has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said 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 Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

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



(Signed) Kurt Pfeffer  
(Title) Associate Vice President

STATE OF FLORIDA }  
COUNTY OF ST. LUCIE } SS:

The foregoing instrument was acknowledged before me this (Date) March 7, 2025

by: Kurt Pfeffer, PE, Associate Vice President who is personally known to me or who has produced  
N/A as identification and who did (did not) take an oath.

Commission No. HH232289

Notary Print: Mary Perez

Notary Signature: Mary Perez



**CITY OF PORT ST. LUCIE, FLORIDA**

**RFP No. #20250065**

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

***Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions***

The Contractor certifies that, the firm or any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.110(a), by any federal department or agency;


(b) have not within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property

(c) are not presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) have not within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Contractor certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Florida Department of Transportation."

Company Name: Hazen and Sawyer

Authorized By:  Kurt Pfeffer, PE  
(Sign) (Print Name)

Title: Associate Vice President Date: 3/7/2025

***\*\*All subcontractors are required to submit this form with the prime contractor's proposal\*\* This is a mandatory document. No exceptions will be made.***



**CITY OF PORT ST. LUCIE, FLORIDA**

**RFP No. #20250065**

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

***Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions***

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The Contractor certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Florida Department of Transportation."

Company Name: Holtz Consulting Engineers, Inc.

Authorized By:  Curtis Robinson  
(Sign) (Print Name)

Title: Vice President Date: 03/10/2025

***\*\*All subcontractors are required to submit this form with the prime contractor's proposal\*\* This is a mandatory document. No exceptions will be made.***

**TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT**

STATE OF FLORIDA       §  
COUNTY OF ST. LUCIE   §

Before me, the undersigned authority, personally appeared affiant Robert B. Taylor, Jr., PE,  
who being first duly sworn, deposes and says:

1. That the undersigned firm is furnishing this Truth in Negotiation Certificate pursuant to Section 287.055(5)(a) of the Florida Statutes ~~for the undersigned firm to receive an agreement for professional services with the City of Port St. Lucie, St. Lucie County, Florida.~~ <sup>to propose for a contract</sup> ~~The red-lined language is not applicable at this time since a contract has not been awarded.~~

2. That the undersigned firm is a corporation which engages in furnishing professional engineering services ~~and is entering into an agreement with the City of Port St. Lucie, St. Lucie County, Florida to provide professional services for a project known as~~ <sup>and is submitting this proposal to</sup> Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements, RFP No. 20250065.

~~3. That the undersigned firm has furnished the City of Port St. Lucie, St. Lucie County, Florida a detailed analysis of the cost of the professional services required for the project.~~ <sup>A detailed analysis of the cost of the professional services for this project is not an RFP requirement, thus this information was not furnished in our proposal</sup>

~~4. That the wage rate information and other factual unit cost, which the undersigned firm furnished, were accurate, complete and current at the time the undersigned firm and the City of Port St. Lucie entered into the agreement for professional services on the project.~~ <sup>Wage rate information has not been furnished at this time since a contract has not been awarded</sup>

5. That the agreement which the undersigned firm and the City of Port St. Lucie entered into on this job contained a provision that the original agreement price and any additions thereto shall be adjusted to include any significant sums by which the City of Port St. Lucie determines the agreement price was increased due to inaccurate, incomplete or non-current wage rates or other factual unit cost and that all such agreement adjustments shall be made within one (1) year following the end of the agreement. <sup>#5 is not applicable since an agreement hasn't been signed yet</sup> ~~A contract has not been awarded yet~~

FURTHER AFFIANT SAYETH NAUGHT

Hazen and Sawyer

\_\_\_\_\_  
Name of Firm

Robert B. Taylor, Jr., PE

By: President Senior Vice President

The foregoing instrument was acknowledged before me by March 7, 2025  
who has produced N/A as identification or is personally known to me.

WITNESS my hand and official seal in the State of County last aforesaid this 7th  
day of March, 2025  
(SEAL)

Mary Perez  
Signature

Mary Perez

\_\_\_\_\_  
Notary Name (typed or printed)

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Title or Rank



# Request for Taxpayer Identification Number and Certification

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

► Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

|  |  |  |
|--|--|--|
| Print or type.<br>See Specific Instructions on page 3. | <b>1</b> Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.<br>Hazen and Sawyer, P.C. (dba as Hazen and Sawyer)   |  |
|  | <b>2</b> Business name/disregarded entity name, if different from above<br>Hazen and Sawyer  |  |
|  | <b>3</b> Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only <b>one</b> of the following seven boxes.<br><br><input type="checkbox"/> Individual/sole proprietor or single-member LLC<br><input checked="" type="checkbox"/> C Corporation<br><input type="checkbox"/> S Corporation<br><input type="checkbox"/> Partnership<br><input type="checkbox"/> Trust/estate<br><br><input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ►<br><b>Note:</b> Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is <b>not</b> disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.<br><br><input type="checkbox"/> Other (see instructions) ► | <b>4</b> Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):<br><br>Exempt payee code (if any) _____<br><br>Exemption from FATCA reporting code (if any) _____<br><br><small>(Applies to accounts maintained outside the U.S.)</small> |
|  | <b>5</b> Address (number, street, and apt. or suite no.) See instructions.<br>2101 N.W. Corporate Blvd., Suite 301   | Requester's name and address (optional)  |
|  | <b>6</b> City, state, and ZIP code<br>Boca Raton, FL 33431   |  |
| <b>7</b> List account number(s) here (optional)        |  |  |

## Part I Taxpayer Identification Number (TIN)

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

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

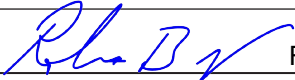
|                                       |   |  |   |   |   |   |   |   |   |
|---------------------------------------|---|--|---|---|---|---|---|---|---|
| <b>Social security number</b>         |   |  |   |   |   |   |   |   |   |
|                                       |   |  | - |   |   |   | - |   |   |
| <b>or</b>                             |   |  |   |   |   |   |   |   |   |
| <b>Employer identification number</b> |   |  |   |   |   |   |   |   |   |
| 1                                     | 3 |  | - | 2 | 9 | 0 | 4 | 6 | 5 |
|                                       |   |  |   |   |   |   |   |   | 2 |

## Part II Certification

Under penalties of perjury, I certify that:

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

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

|                  |   |   |                             |
|------------------|---|---|-----------------------------|
| <b>Sign Here</b> | <b>Signature of U.S. person ►</b>  | <b>Robert B. Taylor, Jr., Senior VP</b> | <b>Date ►</b> March 7, 2025 |
|------------------|---|---|-----------------------------|

## General Instructions

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

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

## Purpose of Form

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

- Form 1099-INT (interest earned or paid)

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

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

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

## Contract Exceptions

Hazen and Sawyer has reviewed Attachment A – PSL Sample Contract Agreement. We respectfully request the following modifications be made.

- 1) Under Section VI, Progress Payments, it states “No payment for projects involving improvements to real property shall be due until Consultant delivers to City a complete release of all claims arising out of the contract or receipts in full in lieu thereof, and an affidavit on his personal knowledge that the releases and receipts include labor and materials for which a lien could be filed.” We request this language be removed due to it being applicable to a contractor and not an Owner's Representative consultant.
- 2) Under Section VI, Progress Payments, it states “The Consultant shall not be paid additional compensation for any loss or damage, arising out of the nature of the work, from the action of the elements, or from any delay or unforeseen obstruction or difficulties encountered in the performance of the work, or for any expenses incurred by or in consequence of the suspension or discontinuance of the work.” We request this language be removed due to it being applicable to a contractor and not an Owner's Representative consultant.
- 3) Under Section XII, Acts of God, it states “The Consultant shall be responsible for all preparation of the site for Acts of God, including but not limited to; earthquake, flood, tropical storm, hurricane or other cataclysmic phenomenon of nature, rain, wind, or other natural phenomenon of normal intensity, including extreme rainfall. No reparation shall be made to the Consultant for damages to the Work resulting from these Acts. The City is not responsible for any costs associated with pre or post preparations for any Acts of God.” We request this language be removed due to it being applicable to a contractor and not an Owner's Representative consultant.
- 4) Under Section XIV, Compliance with Laws, it is stated that the Consultant shall “secure and pay the fees and charges for all permits required for the performance of the Contract”. We request this language be removed due to it being applicable to a contractor and not an Owner's Representative consultant.
- 5) Under Section XVI, Inspection and Correction of Defects, many of the provisions are contractor like provisions and are not typical language for the CEI consultant. We request the language related to the “Correction of Defects” be removed due to it being applicable to a contractor and not an Owner's Representative consultant.





6) Under Section XVIII, Contract Administration, and subheading "Permits, Licenses, and Certifications," it is states that "The Consultant shall be responsible for obtaining all permits, licenses, certifications, etc." We request all language related to "obtaining permits" be removed due to it being applicable to a contractor and not an Owner's Representative consultant.

# Hazen

Hazen and Sawyer

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





**RFP #20250065**  
**CONSULTANT'S GENERAL INFORMATION WORK SHEET**

1. Corporation, Partnership, Joint Venture, Individual or other? Hazen and Sawyer is a corporation.

2. Firm's name and main office address, telephone and fax numbers

Name: Hazen and Sawyer

Address: 2101 NW Corporate Boulevard, Suite 301

Boca Raton, FL 33431

Telephone Number: (561) 997-8070

Fax Number: N/A

3. Contact person: Kurt A. Pfeffer, PE Email: kpfeffer@hazenandsawyer.com

4. Firm's previous names (if any). N/A

5. List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10 %) interest:

See attached listing.

(N/A is not an acceptable answer - insert lines if needed)

6. List any judgments from lawsuits in the last five (5) years:

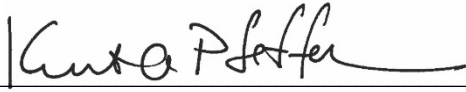
None

(N/A is not an acceptable answer - insert lines if needed)

7. List any criminal violations and/or convictions of the Proposer and/or any of its principals:

None

(N/A is not an acceptable answer - insert lines if needed)



Signature

Associate Vice President

Title



Hazen and Sawyer  
Pending and Completed Lawsuits - Five Years

| Case Name   | Description  | Date of Action | Date Closed | Outcome   | Identification Number             | Court  |
|---|--|----------------|-------------|-----------|-----------------------------------|--|
| Ronald Valerio against Hazen and Sawyer, D.P.C., Eaton Electric, Inc. and Five Star Electric Corporation  | Mr. Valerio, an employee of contractor WDF, alleges an employee of an electrical contractor injured him at the Bowery Bay WWTP.  | 3/19/15        | 06/10/20    | Dismissed | Index No. 306522/14               | Supreme Court of the State of New York, County of Bronx                                      |
| Michael D'Amato and Josephine D'Amato vs. WDF Development, LLC, WDF, Inc., American Insurance Group, American Insurance Corporation, American International Group, Inc., Insurance Company of the State of Pennsylvania, "John Doe," Lasalle LaSalle & Dwyer, PC, Sean P. Dwyer, Leo Dudin, Anthony Colaizzi, and Hazen and Sawyer. | Michael D'Amato an employee of the City of New York alleges he was caused to trip and fall as a result of the negligence of WDF Development, LLC.  | 9/30/20        | 03/08/21    | Dismissed | Index No.: 157484/2020            | Supreme Court of the State of New York, County of New York                                   |
| 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.   | 11/9/20        | 09/20/21    | Dismissed | Case No. 16 CA 013117 MB-AF       | In the Circuit Court of the Fifteenth Judicial Circuit in and for Palm Beach County, Florida |
| 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.   | 7/24/19        | 05/18/22    | Settled   | Civil Action No. 1:19-cv-540      | United States District Court for the Middle District of North Carolina                       |
| 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.  | 7/26/17        | 08/02/22    | Settled   | Index No. 511003/2015             | Supreme Court of the State of New York, County of Kings                                      |
| Scott Baptiste and Elizabeth Baptiste against The City of New York and A.J. Pegno Construction Corp./Tully Construction Company Inc. 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. | 12/13/13       | 9/7/23      | Settled   | Index No.: 11654/09               | Supreme Court of the State of New York, County of Kings                                      |
| Darline S. Spenser v. McCormick, Time, et al (Hollywood class action)   | Hazen was named in a lawsuit filed by Ms. Spencer. The lawsuit did not contain any claims against the Firm. The court dismissed the lawsuit with prejudice.  | 12/18/23       | 07/26/24    | Dismissed | Case No.23-62214-CIV-DAMIAN/Valle | United States District Court, Southern District of Florida                                   |
| 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.  | 2/15/19        | Open        | Open      | 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.   | 11/13/19       | Open        | Open      | Index no: 159692/2019             | Supreme Court of the State of New York, County of New York                                   |
| Vincent Calcagno Jr., v. Capry Group, Inc., Delphi Plumbing & Heating, Inc., Hazen and Sawyer, D.P.C., and the City of New York   | Vincent Calcagno, an employee of the City of New York alleges he was caused to trip and fall at the Rockaway Water Treatment Control Plant.  | 12/31/24       | Open        | Open      | Index No.: 723420/2024            | Supreme Court of the State of New York, County of Queens                                     |



## E-Verify Form

### Supplier/Consultant acknowledges and agrees to the following:

1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
3. The Contractor hereby represents that it is in compliance with the requirements of Sections 448.09 and 448.095, Florida Statutes. The Contractor further represents that it will remain in compliance with the requirements of Sections 448.09 and 448.095 Florida Statutes, during the term of this contract and all attributed renewals.
4. The Contractor hereby warrants that it has not had a contract terminated by a public employer for violating Section 448.095, Florida Statutes, within the year preceding the effective date of this contract. If the Contractor has a contract terminated by a public employer for any such violation during the term of this contract, it must provide immediate notice thereof to the City.

**E-Verify Company Identification Number** 252295

**Date of Authorization** September 15, 2009

**Name of Contractor** Hazen and Sawyer

**Name of Project** Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

**Solicitation Number (If Applicable)** RFQ No. 20250065

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on March, 7, 2025 in Boca Raton (city), FL (state).

Signature of Authorized Officer

Kurt Pfeffer, PE, Associate Vice President

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 7th DAY OF March, 2025.

NOTARY PUBLIC Mary Perez (Commission # HH232289)

My Commission Expires: February 22, 2026





**NON-COLLUSION AFFIDAVIT**

RFP No. #20250065

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

State of Florida }

County of Palm Beach }

Kurt Pfeffer, PE, being first duly sworn, disposes and says that:  
(Name/s)

1. They are an Associate Vice President of Hazen and Sawyer the Proposer that  
(Title) (Name of Company)

has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said 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 Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

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



(Signed) Kurt Pfeffer  
(Title) Associate Vice President

STATE OF FLORIDA }  
COUNTY OF ST. LUCIE} SS:

The foregoing instrument was acknowledged before me this (Date) March 7, 2025

by: Kurt Pfeffer, PE, Associate Vice President who is personally known to me or who has produced  
N/A as identification and who did (did not) take an oath.

Commission No. HH232289

Notary Print: Mary Perez

Notary Signature: Mary Perez





**CITY OF PORT ST. LUCIE, FLORIDA**

**RFP No. #20250065**

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

***Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions***

The Contractor certifies that, the firm or any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.110(a), by any federal department or agency;


(b) have not within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property

(c) are not presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) have not within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Contractor certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Florida Department of Transportation."

Company Name: Hazen and Sawyer

Authorized By:  Kurt Pfeffer, PE  
(Sign) (Print Name)

Title: Associate Vice President Date: 3/7/2025

***\*\*All subcontractors are required to submit this form with the prime contractor's proposal\*\* This is a mandatory document. No exceptions will be made.***

**CITY OF PORT ST. LUCIE, FLORIDA**

**RFP No. #20250065**

Owners' Representative for Design-Build Project for New Water Treatment Plant and Related Improvements

***Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Primary Covered Transactions***

The Contractor certifies that, the firm or any person associated therewith in the capacity of owner, partner, director, officer, principal, investigator, project director, manager, auditor, and/or position involving the administration of federal funds:

(a) are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions, as defined in 49 CFR s29.110(a), by any federal department or agency;

(b) have not within a three-year period preceding this certification been convicted of or had a civil judgment rendered against it for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state, or local government transaction or public contract; violation of federal or state antitrust statutes; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property

(c) are not presently indicted for or otherwise criminally or civilly charged by a federal, state, or local governmental entity with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) have not within a three-year period preceding this certification had one or more federal, state, or local government public transactions terminated for cause or default.

The Contractor certifies that it shall not knowingly enter into any transaction with any subcontractor, material supplier, or vendor who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this project by any federal agency unless authorized by the Florida Department of Transportation."

Company Name: Holtz Consulting Engineers, Inc.

Authorized By:  Curtis Robinson  
(Sign) (Print Name)

Title: Vice President Date: 03/10/2025

***\*\*All subcontractors are required to submit this form with the prime contractor's proposal\*\* This is a mandatory document. No exceptions will be made.***

**TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT**

STATE OF FLORIDA       §  
COUNTY OF ST. LUCIE   §

Before me, the undersigned authority, personally appeared affiant Robert B. Taylor, Jr., PE,  
who being first duly sworn, deposes and says:

1. That the undersigned firm is furnishing this Truth in Negotiation Certificate pursuant to Section 287.055(5)(a) of the Florida Statutes ~~for the undersigned firm to receive an agreement for professional services with the City of Port St. Lucie, St. Lucie County, Florida.~~ <sup>to propose for a contract</sup> ~~The red-lined language is not applicable at this time since a contract has not been awarded.~~

2. That the undersigned firm is a corporation which engages in furnishing professional engineering services ~~and is entering into an agreement with the City of Port St. Lucie, St. Lucie County, Florida to provide professional services for a project known as~~ <sup>and is submitting this proposal to</sup> Owner's Representative for Design-Build Project for New Water Treatment Plant and Related Improvements, RFP No. 20250065.

~~3. That the undersigned firm has furnished the City of Port St. Lucie, St. Lucie County, Florida a detailed analysis of the cost of the professional services required for the project.~~ <sup>A detailed analysis of the cost of the professional services for this project is not an RFP requirement, thus this information was not furnished in our proposal</sup>

~~4. That the wage rate information and other factual unit cost, which the undersigned firm furnished, were accurate, complete and current at the time the undersigned firm and the City of Port St. Lucie entered into the agreement for professional services on the project.~~ <sup>Wage rate information has not been furnished at this time since a contract has not been awarded</sup>

5. That the agreement which the undersigned firm and the City of Port St. Lucie entered into on this job contained a provision that the original agreement price and any additions thereto shall be adjusted to include any significant sums by which the City of Port St. Lucie determines the agreement price was increased due to inaccurate, incomplete or non-current wage rates or other factual unit cost and that all such agreement adjustments shall be made within one (1) year following the end of the agreement. <sup>#5 is not applicable since an agreement hasn't been signed yet</sup> ~~A contract has not been awarded yet~~

FURTHER AFFIANT SAYETH NAUGHT

Hazen and Sawyer

\_\_\_\_\_  
Name of Firm

Robert B. Taylor, Jr., PE

By: President Senior Vice President

The foregoing instrument was acknowledged before me by March 7, 2025  
who has produced N/A as identification or is personally known to me.

WITNESS my hand and official seal in the State of County last aforesaid this 7th  
day of March, 2025  
(SEAL)

Mary Perez  
Signature

Mary Perez

\_\_\_\_\_  
Notary Name (typed or printed)

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Title or Rank





**Prepared by Hazen and Sawyer for**

**City of Port St. Lucie**

**July 15, 2025**

**Owner's Representative for Design-Build Project for  
New Water Treatment Plant and Related Improvements**

**RFP No. 20250065**

**Scope of Services**

**Work Authorization No. 1 – Design-Build Procurement and Planning Assistance**



## Project Understanding

The City of Port St. Lucie (“City”) intends on utilizing a progressive design-build project delivery method for the construction of a new water treatment plant. To assist with the delivery of this project the City intends on utilizing an Owner’s Representative to assist during the procurement, Phase 1 Preconstruction Phase and Phase 2 Construction Phase of the project. The City advertised RFP 20250065 “Owner’s Representative for Design-Build Project for New Water Treatment Plant and Related Improvements” to procure an Owner’s Representative that will assist with the following scope of work items:

1. Assist in defining design-build project objectives and priorities; assist in determining the goals, challenges and constraints of the Project;
2. Assist in managing City’s expectations; developing the procurement plan, schedule and procedures;
3. Assist with the development of solicitation documents for design-build; competition process meetings, inquiries and addenda; establishing qualifications selection criteria and methodology and support determination of shortlisting of the most highly qualified submissions;
4. Provide on-site inspection of the construction activities. Report and advise the City of the observations and potential conflicts or issues;
5. Review and approve payments and construction related submittals;
6. Review project progress;
7. Verify quantity calculations and field measurements for payments;
8. Provide photographic documentation for pre-construction state and construction progress through the use of digital cameras and drones;
9. Participate in progress meetings;
10. Serve as a project advisor to the City;
11. Oversee the Construction contract process with monitoring and administration, including the services of a full-time resident project representative along with required inspections (CEI);
12. Assistance with the Close-Out of the Project;
13. Assist the City with Warranty books and punch list items;
14. Provide advice and expertise in any of the areas related to the design and construction of the new water treatment plant (not-all inclusive):
  - a. Construction practices
  - b. Geotechnical Engineering

- c. Electrical Engineering
- d. Structural Engineering
- e. Instrumentation and controls
- f. Mechanical Engineering
- g. Water Treatment Design and Operations

Hazen and Sawyer (“Hazen”) was selected to serve as the Owner’s Representative for this solicitation. Hazen’s approach for delivering these services is through the proposed three Work Authorizations.

- Work Authorization No. 1 – Design-Build Procurement and Planning Assistance – includes assistance in the procurement of the design-builder and initial planning assistance for the project.
- Work Authorization No. 2 – Progressive Design-Build Phase 1 Support Services – includes assistance during the preconstruction phase of project through GMP negotiations.
- Work Authorization No. 3 – Progressive Design-Build Phase 2 Support Services – includes assistance during the construction phase of the project.

The proposed scope of services in this work authorization will be Work Authorization No. 1. Hazen is proposing the following tasks.

## **Task 1 – Project Management**

Services under this Task will be provided as follows:

### **Task 1.1 – Monthly Status Reports**

A Status Report will be prepared and submitted within 15 days of the conclusion of each month. The Status Report will also be attached to the monthly invoice. The Status Report will provide the following information:

- Overall status of each task.
- Work performed during the month.
- Estimated completion of task and major subtasks.
- Current challenges/issues.

In addition to the Status Report, a Monthly Status Meeting between City and Hazen Project Manager will be held to discuss the status of all subtasks for this Work Authorization. It is anticipated that this work authorization will be completed within nine (9) months.

As part of this task, Hazen will also perform the following:

- Monitor the status of budget.

- Coordinate the activities of the party responsible for each task.
- Monitor project schedules and task completion with respect to deadlines and budgets.

Deliverables (issued via electronic delivery in .pdf format):

- Monthly status report and meeting minutes.

## **Subtask 1.2 – Project Status Reports and Materials**

Hazen will prepare and submit to City a Quarterly Project Status Report that includes accomplishments during the current reporting period, upcoming activities for the next reporting period, tracking of issues and action items, and any other related information. Hazen will prepare meeting materials for a Quarterly Progress Update with City management. Hazen will prepare agenda, design figures, and/or presentation format for use or distribution in the meeting.

City will review the proposed format for materials and project status details. Hazen will update the materials prior to the first meeting and then continue that format throughout the project.

The efforts associated with this task include the document management and reporting for tasks associated with this work authorization.

Deliverables (issued via electronic delivery in .pdf format):

- Meeting Agendas
- Meeting presentations
- Quarterly Project Status Reports

## **Task 2 – Design-Build Procurement Services**

The work proposed in this task will assist with the procurement of the design-build firm.

### **Task 2.1 – Design-Build Procurement Assistance**

Hazen will review and evaluate each proposal submitted to ensure compliance with the RFQ or RFQ document. Hazen will perform the following:

- Attend pre-bid meeting with prospective bidders, prepare technical portion of meeting agenda.
- Prepare responses to inquiries (RFIs) during the proposal period and prepare addenda (assuming up to 10 RFIs and five addenda)
- Evaluation of the technical aspects of the design-build proposals (assuming up to five proposals are received).
- Provide input on the proposals relative to compliance with the RFQ or RFP documents.

- Provide guidance and expertise with negotiating the final contract terms and first work authorization.
- Review terms for incentive/award fee and contingency budget development and incorporate payment terms into the RFP (if applicable).

Deliverables (issued via electronic delivery in .pdf format):

- Pre-bid conference technical agenda.
- Responses to questions from prospective bidders, supporting documents, and addenda for City distribution for up to five (5) addenda.
- Tabulated summary and evaluation of the proposals relative to compliance with the RFP documents

### **Task 3 – Funding and Grant Assistance**

Hazen will host an online meeting to review the potential funding and grants that may be available to the City for construction of the new WTP. Hazen will provide meeting minutes following the meeting summarizing key elements/discussions during the meeting.

If the City selects funding opportunities and requests the assistance of Hazen for these efforts, the scope and compensation for these services will be provided in Task 6 (Additional Engineering Services).

### **Task 4 – Evaluation of Existing Lime Softening for PFAS Compliance**

As part of this task, Hazen will evaluate the alternatives of making improvements to the lime softening treatment at the Prineville Water Treatment Plant to comply with the new PFAS regulations versus expanding the Rangeline Water Treatment Plant to make up for this water supply.

#### **Subtask 4.1 – Collect/Review Existing Data**

Hazen will request data from the City for review. Data will include the following:

- Raw water quality data for the last five years (including monthly and annual analyses)
- Monthly WTP operating reports for the last 1 to 5 years
- WTP drawings, including process flow diagrams and site layouts
- Overall site plan depicting location of raw water wells and WTP
- SFWMD Water Use Permit
- PFAS data

Hazen will summarize the raw water quantity and quality in a summary memorandum along with the current treatment performance of the lime softening plant. This data will be used to develop and analyze alternatives in the Subtask 4.2 and 4.3.



## **Subtask 4.2 – Develop Alternatives and Conceptual Costs**

Hazen will develop alternatives for consideration by the City. The alternatives will be developed with a conceptual schematic and an opinion of probable construction cost.

Hazen will also identify monthly operational costs for the alternatives, based on the City's current costs, and costs at other similar local facilities.

Hazen will calculate the 20-year net present worth of each alternative based on initial capital construction costs, energy costs, and chemical costs.

Initially, these alternatives may likely include the following:

- Continue with lime softening of the surficial wells
- Bolt on PFAS removing ion exchange vessels or Granular Activated Carbon (GAC) to the existing lime softening WTP
- Construct additional reverse osmosis skids for treatment of the Floridan Aquifer at either Prineville or Rangeline Water Treatment Plant.
- Construct a combination of nanofiltration skids and reverse osmosis skids at either Prineville or Rangeline Water Treatment Plant.

## **Subtask 4.3 – Perform Decision Criteria Modelling**

Hazen will develop qualitative criteria for consideration by the City. Hazen will develop a scoring methodology. Hazen will present preliminary weightings for each criterion. Initially, criteria for consideration include protection of public health and safety (PFAS removal efficiency), ease of permitting, reliability, ease of operations and maintenance, independence from other utilities, and constructability.

Next, Hazen will develop a decision criteria matrix, which will summarize the criteria and the associated scoring ranges for each criterion. Hazen will lead a workshop to assist the City in scoring each alternative. Hazen will document the scorings and rankings performed by the City at this workshop.

## **Subtask 4.4 – Prepare Technical Memorandum**

Hazen will prepare a brief technical memorandum (TM) to document the development of the alternatives, criteria for evaluation, and summary results of the workshop. Hazen will also summarize the capital costs and operating costs of each alternative in a summary table. The summary cost table will also include a summary of the 20-year net present worth of each alternative.

Hazen will deliver the technical memorandum electronically in draft format for the City's review. After receipt of the City's comments, Hazen will update and deliver the final technical memorandum electronically to the City.

## Task 5 – Additional Engineering Services

Task 5 is for Additional Engineering Services that could be required to perform additional work due to unforeseen assistance that the City might request. Services provided under this Task shall be billed on an hourly basis up to the specified amount as authorized by the City, subject to the limits set in the agreement. Services performed under this Task must be initiated by an email authorization issued by the City.

Additional Engineering Service may include, but not be limited to:

- Regulatory assistance with the South Florida Consumptive Use Permit
- Corrosion control evaluation
- Grant application preparation
- Evaluation and initial preparation of a Project Management Information System (PMIS)
- Assistance in preparing or reviewing documents, presentations, or related items.

## Assumptions

The following assumptions were used to develop the scope and fee for this Work Authorization.

1. Fees for legal assistance are specifically excluded.

## Schedule of Deliverables

Hazen will perform the services identified in this Work Authorization within 270 calendar days of the written notice to Proceed. A specific project schedule will be provided upon notice to proceed.

| Task | Description   | Time of Completion                     |
|------|---|--|
| 1.1  | Monthly status reports and meeting minutes  | Monthly, assuming 9 month duration.    |
| 1.2  | Quarterly Project Status Reports  | Quarterly for 9 months                 |
| 2    | Pre-bid conference agenda, response to RFIs/addenda, negotiation assistance, evaluation recommendation memorandum   | Throughout the PDB procurement process |
| 3    | Meeting minutes and presentation materials of potential funding opportunities   | 45 days                                |
| 4    | Technical Memorandum on alternatives, criteria for evaluation and summary of the workshops for the existing Lime Softening for PFAS Compliance evaluation | 5 months                               |

## Compensation

Compensation for all tasks will be billed on a lump sum or hourly not-to-exceed basis as presented in the table below and in Exhibit A.

| Task                                  | Description   | Method of Payment    | Fee                 |
|---------------------------------------|---|----------------------|---------------------|
| 1                                     | Project Management  | Lump Sum             | \$18,660.00         |
| 2                                     | Design-Build Procurement Services                         | Lump Sum             | \$25,000.00         |
| 3                                     | Funding and Grant Assistance                              | Lump Sum             | \$4,060.00          |
| 4                                     | Evaluation of Existing Lime Softening for PFAS Compliance | Lump Sum             | \$76,300.00         |
| <b>Subtotal, Lump Sum</b>             |   |                      | <b>\$124,020.00</b> |
| 5                                     | Additional Engineering Services                           | Hourly Not-to-Exceed | \$75,000.00         |
| <b>Subtotal, Hourly Not-to-Exceed</b> |   |                      | <b>\$75,000.00</b>  |
| <b>Grand Total</b>                    |   |                      | <b>\$199,020.00</b> |

Hazen will submit invoices based on percent complete activities for each lump sum task and will provide itemized hourly time by staff based on the categorical rates in Exhibit B for Hourly Not-to-Exceed tasks.

We appreciate the opportunity to assist the City with this very important project. Feel free to reach out to our office to review and discuss our proposal.

Regards,



Orlando J. Castro, PE  
Associate Vice President

Exhibit A: Engineering Services Labor and Expense



EXHIBIT A - FEE SCHEDULE [DETAILED]  
PORT SAINT LUCIE  
OWNER'S REPRESENTATIVE FOR DESIGN-BUILD PROJECT FOR  
NEW WATER TREATMENT PLANT AND RELATED IMPROVEMENTS

| Task No. | Task Description  | Vice President<br>/ Associate<br>Vice President | Senior<br>Associate | Associate | Senior<br>Principal<br>Engineer | Principal<br>Engineer | Engineer | Assistant<br>Engineer | Construction<br>Manager | Senior Field<br>Coordinator | Senior<br>Principal<br>Scientist | Principal<br>Scientist /<br>Scientist | Assistant<br>Scientist | Senior<br>Principal<br>Designer | Designer | Administrator | Technician | Subtotal,<br>Hours | Subconsultants | Direct<br>Expenses | Subtotal, Fee |
|----------|---|---|---------------------|-----------|---------------------------------|-----------------------|----------|-----------------------|-------------------------|-----------------------------|----------------------------------|---------------------------------------|------------------------|---------------------------------|----------|---------------|------------|--------------------|----------------|--------------------|---------------|
|          |   | \$300   | \$280               | \$240     | \$220                           | \$190                 | \$160    | \$140                 | \$250                   | \$200                       | \$200                            | \$180                                 | \$140                  | \$180                           | \$140    | \$90          | \$75       |                    |                |                    |               |
| 1        | Project Management  | 51  | 0                   | 0         | 0                               | 0                     | 0        | 24                    | 0                       | 0                           | 0                                | 0                                     | 0                      | 0                               | 0        | 0             | 0          | 75                 | \$0            | \$0                | \$18,660      |
|          |   |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    |               |
| 2        | Design-Build Procurement Services                         | 24  | 0                   | 24        | 0                               | 0                     | 0        | 40                    | 0                       | 0                           | 0                                | 0                                     | 0                      | 0                               | 0        | 16            | 0          | 104                | \$5,000        | \$0                | \$25,000      |
|          |   |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    |               |
| 3        | Funding and Grant Assistance                              | 2   | 0                   | 4         | 0                               | 0                     | 0        | 0                     | 0                       | 0                           | 0                                | 0                                     | 0                      | 0                               | 0        | 0             | 0          | 6                  | \$2,500        | \$0                | \$4,060       |
|          |   |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    |               |
| 4        | Evaluation of Existing Lime Softening for PFAS Compliance | 26  | 60                  | 0         | 0                               | 108                   | 0        | 128                   | 0                       | 0                           | 0                                | 0                                     | 0                      | 32                              | 0        | 0             | 0          | 354                | \$7,500        | \$0                | \$76,300      |
|          | Lump Sum + Allowances Subtotal                            |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    | \$124,020     |
|          |   |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    |               |
| 5        | Additional Engineering Services                           | 40  | 40                  | 39        | 78                              | 80                    | 0        | 72                    | 0                       | 0                           | 0                                | 0                                     | 0                      | 0                               | 0        | 0             | 0          | 349                | \$0            | \$0                | \$75,000      |
|          | Hourly Not-to-Exceed + Allowances Subtotal                |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    | \$75,000      |
|          |   |   |                     |           |                                 |                       |          |                       |                         |                             |                                  |                                       |                        |                                 |          |               |            |                    |                |                    |               |
|          | Lump Sum + Hourly Not-to-Exceed Total                     | 143   | 100                 | 67        | 78                              | 188                   | 0        | 264                   | 0                       | 0                           | 0                                | 0                                     | 0                      | 32                              | 0        | 16            | 0          | 888                | \$15,000       | \$0                | \$199,020     |

## Exhibit B: Proposed Rate Schedule

| Labor Category             | Labor Rate (\$/hr) |
|----------------------------|--------------------|
| Vice President             | \$300              |
| Associate Vice President   | \$300              |
| Senior Associate           | \$280              |
| Associate                  | \$240              |
| Senior Principal Engineer  | \$220              |
| Principal Engineer         | \$190              |
| Engineer                   | \$160              |
| Assistant Engineer         | \$140              |
| Construction Manager       | \$250              |
| Senior Field Coordinator   | \$200              |
| Senior Principal Scientist | \$200              |
| Principal Scientist        | \$180              |
| Scientist                  | \$180              |
| Assistant Scientist        | \$140              |
| Senior Principal Designer  | \$180              |
| Designer                   | \$140              |
| Administrator              | \$90               |
| Technician                 | \$75               |