

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: February 11, 2025 Consent [X] Regular []
Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 1 to the Consulting/Professional Services Water Treatment Plant No. 2 (WTP 2) Expansion (Contract) with Kimley-Horn and Associates, Inc., (Consultant) for a not to exceed amount of \$1,871,577.77.

Summary: On October 22, 2024, the Board of County Commissioners (BCC) approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2024-1424) with the Consultant. CSA No. 1 provides for the basis of design report which will include guidance, conceptual plans and design criteria for the upgrades needed to WTP 2. The report will address emerging contaminants, plant hardening, plant upgrades with new membrane treatment system, new wellfields, and reliability and safety improvements.

On May 14, 2024, the BCC approved the Drinking Water State Revolving Fund (DWSRF) Planning and Design Loan Agreement (Agreement) DW5020C0 (R2024-0557) in the amount of \$9,968,768 for Planning and Design for the upgrades to Water Treatment Plant (WTP) Nos. 2, 3, 8 & 9 to remove perfluoroalkyl and polyfluoroalkyl substances (PFAS). Under the Agreement, 100% of the awarded funding is considered as principal forgiveness.

This Contract was presented to the Goal Setting Committee (Committee) on October 18, 2023 and the Committee established an Affirmative Procurement Initiative (API) of a minimum mandatory 20% Small Business Enterprise (SBE) participation and up to 15 Evaluation Preference Points for participation by certified Minority Business Enterprise (MBE), African American (AA) owned firms. Consultant committed to 38% SBE participation, which includes 16.50% MBE (AA). The SBE proposed participation for this CSA No. 1 is 37.78%, which includes 21.58% MBE participation, 15.48% MBE (AA). To date, the overall participation achieved on this Contract is 37.78%, which includes 21.58% MBE participation, of which 15.48% MBE (AA). Consultant is headquartered in Raleigh, North Carolina, but maintains an office in Palm Beach County from which the majority of the work will be undertaken. The Project is included in the PBCWUD FY 2025 budget. (PBCWUD Project No. 24-033) District 3 (MWJ)

Background and Justification: Regulation of emerging contaminants have accelerated the need to upgrade WTP 2 building on the existing comprehensive plan for improvements at WTP 2. Some recent additions to WTP 2 include a 15 million gallon per day (MGD) lime softening unit, a five (5) MG water ground storage tank, and a Deep Injection Well. Work going forward seeks to preserve existing infrastructure while addressing emerging contaminants through the addition of a new membrane system and a new wellfield. The upgrade of WTP 2 will meet the newly published PFAS regulations and ensure regulatory compliance in the long term for the Eastern water service areas. CSA No. 1 will provide the conceptual site plans and design criteria for the Project.

Attachments:

1. Two (2) Originals of CSA No. 1
2. Location Map
3. EBIX Compliance Summary Report

Recommended By: Al Boat 1/15/25
 Department Director Date

Approved By: Wally Blum 1/27/25
 Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2025	2026	2027	2028	2029
Capital Expenditures	<u>\$1,871,578</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$1,871,578</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Budget Account No.:	Fund <u>4011</u>	Dept <u>721</u>	Unit <u>W053</u>	Object <u>6541</u>	

Is Item Included in Current Budget? Yes X No

Is this item using Federal Funds? Yes No X

Is this item using State Funds? Yes X No

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

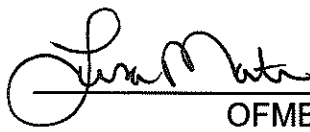
\$1,871,577.77 of the project is funded by 100% principal forgiveness (from the Drinking Water State Revolving Fund)

C. Department Fiscal Review:

Bony Foreman

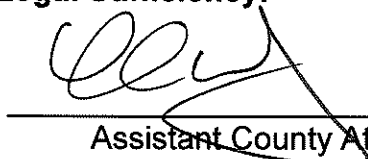
III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:


OFMB 1/16/2025


Contract Development and Control
26 1.17.25

B. Legal Sufficiency:


Assistant County Attorney 1/27/25

C. Other Department Review:

Department Director

CONSULTANT SERVICES AUTHORIZATION NO. 1
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment Plant No. 2 Expansion
Resolution No. R2024-1424 Contract Dated October 22, 2024

Project Title: Water Treatment Plant No. 2 Expansion

PBCWUD Project No.: 24-033

Consultant: Kimley-Horn and Associates, Inc.

Address: 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411

Budget Line Item No.: 4011-721-W053-6541

District No.: 3

This Consultant Services Authorization provides for: The Water Treatment Plant (WTP) No. 2 Expansion Basis of Design Report (BODR). The BODR will provide the guidance for the WTP improvements design to be completed under subsequent Consultant Services Authorization (CSA). This BODR includes preliminary design to increase WTP capacity from 16.4 MGD to 30 MGD utilizing nanofiltration (NF) treatment process. This CSA includes site visits to relevant water treatment plants using nanofiltration (NF), funding support, continued use of the existing Magnetic Ion Exchange (MIEX) and lime softening process with the new NF process to treat for Per- and polyfluoroalkyl substances (PFAS) to be compliant with upcoming regulations.

(See **ATTACHMENT A** for detailed scope of services)

The Contract provides for 38% SBE participation, which includes 16.5% MBE participation and 16.5% MBE (AA). This Consultant Services Authorization includes 37.78% overall participation which includes, 21.58% MBE participation and 15.48% MBE (AA). The cumulative SBE participation, including this Consultant Services Authorization is 37.78% overall participation which includes, 21.58% MBE participation and 15.48% MBE (AA).

1. Services completed by the Consultant to date:

See ATTACHMENT B.

2. Consultant shall begin work upon receipt of Notice to Proceed correspondence.

3. The compensation to be paid to the Consultant for providing the requested services shall be:

A. Computation of time charges plus expenses, not to exceed \$ 1,871,577.77

B. Fixed price of \$ N/A

C. Total \$ 1,871,577.77

4. This Authorization may be terminated, in whole or in part, by the County with or without cause in accordance with the Contract terms. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed to termination date, together with reimbursable expenses (if applicable) then due in accordance with the Contract terms. Consultant agrees to waive any and all claims for lost profits or anticipated future profits in the event of a termination with or without cause under this Contract.

CONSULTANT SERVICES AUTHORIZATION NO. 1
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment Plant No. 2 Expansion
Resolution No. R2024-1424 Contract Dated October 22, 2024

Project Title: Water Treatment Plant No. 2 Expansion

PBCWUD Project No.: 24-033

5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent).
6. This Authorization does not amend, change, or modify the Contract dated October 22, 2024 which remains in full force and effect.
7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.

CONSULTANT SERVICES AUTHORIZATION NO. 1
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment Plant No. 2 Expansion
Resolution No. R2024-1424 Contract Dated October 22, 2024

Project Title: Water Treatment Plant No. 2 Expansion

PBCWUD Project No.: 24-033

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Joseph Abruzzo, Clerk of the Circuit Court
& Comptroller, Palm Beach County

Palm Beach County, Board
of County Commissioners

ATTEST:

Signed: _____

Signed: _____

Maria G. Marino, Mayor

A13

Typed Name: _____

Deputy Clerk

(Date)

Approved as to Form and Legal
Sufficiency

Kimley-Horn and Associates, Inc.

(Consultant)

Signed: _____

Lance R. Littrell

(Print Name)

Typed Name: Michael W. Jones
County Attorney

(Signature)

Vice President

(Title)

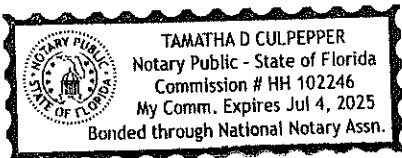
(Date)

1/13/25

STATE OF FLORIDA

COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 13th day of January, 2025, by Lance R. Littrell who is personally known to me or has produced as identification.



(Signature of Notary Public - State of Florida)

Tamatha D. Culpepper

(Print, Type, or Stamp Commissioned Name of Notary Public)

Kimley»»Horn

Certificate of Secretary

To Whom It May Concern:

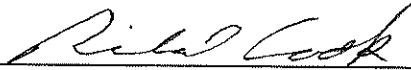
I am the duly qualified and acting Secretary of Kimley-Horn and Associates, Inc., a North Carolina Corporation.

The following is a true copy of a resolution duly adopted by the Board of Directors of the corporation at the Board meeting held on December 17, 2024 and entered in the minutes of such meeting in the minute book of the corporation.

"The Board unanimously approved the contract signing authority of employees as presented."
(Copies of the employee lists as presented are enclosed.)

The resolution is in conformity with the articles of incorporation and bylaws of the corporation, has never been modified or repealed, and is now in full force and effect.

Dated: December 18, 2024



Richard N. Cook, Secretary



Kimley-Horn and Associates, Inc.
FULL CONTRACT SIGNING AUTHORITY
December 17, 2024

The following individuals have authority to sign both standard and non-standard agreements directly related to serving clients ("Project Agreements"). Project Agreements include client contracts, subcontracts, project-specific vendor agreements, IPO's, contract amendments, non-disclosure agreements, teaming agreements, project-specific equipment and facility rental agreements for specific projects, and certifications related to proposals. This document does not grant authorization to sign other types of contracts or legal documents not directly related to client service such as office leases, software purchase or license agreements, tax returns, purchase agreements for supplies, or agreements to procure accounting, legal, recruiting, or similar services.

ATLANTIC	PITTSBURGH Beaves, Adele M. Beduhn, Tyler J. Moldovan, William	LOS ANGELES Duong, Danh Fares, Jean B. Kyle, Gregory S Phaneuf, Alyssa S. Ranta, Shahrzad	Ulery, Megan R. Valencia, Jason B.	Meador, Emily H. Netzer, Lesley E. Thompson, Erin K.
BALTIMORE CITY Kraft, Jonathan H. Miller, Sean T. Murphy, Erin M. Smith, Jeff B.	PRINCETON Diggan, Tony W. Gibson, Adam T.	MONTEREY Falgout, Mark A.	SAN JOSE Hedayat, Leyla Mehta, Parag G. Venter Frederik J.	CENTRAL
BALTIMORE COUNTY Leffner, Nicholas J. Hutton, Heather	RICHMOND Chance, Maxwell P. Crum, Katie E. Dougherty, Sean P. Harrell, Matthew T. Hill, Corey W. Lickliter, Ashley C. McCray, Danielle R. McPeters, Brian A. Perkins, Ryan R. White, Timothy E.	OAKLAND Akwabi, Kwasi Colety, Mike D. Dankberg, Adam J.	SAN MATEO Pulliam, John E.	DALLAS Fraccaro, Joseph A. Galloway, Steven D. Harris, Mark E. Henrichs, Tyler B. Hoppers, Kevin P. Moss, Bradley J. Rader, Aaron K. Samarripas, Anthony M. Sulkowski, Nicholas E. Williamson, Sarah T.
BOSTON Jacques, Christopher Keegan, Katherine A.	VIRGINIA BEACH Chambers, Jon S. Dallman, David B. Davidson, Scott O. Falk, Katherine W. Farthing, Andrew P. France, William D. Funk, Gerald S. Holland, Kimberly R. Holland, Stephen R. Mackey, William F. Mertig, Karl E. Moser, Emily A. Niss, Robyn M. Schmitt, Gregory H. Votava Charles F. Wharton, Michelle L. Williams, Kyle D. Yee, Leong Wee	ORANGE Adrian, Darren J. Bossu, David M. Glaze, Jacob S. Kerry, Nicole M. Matson, Jason B. Marechal, Jason A. Melchor, Jason J. Melvin, M. Pearse	CAROLINAS	FORT WORTH Arnold, Douglas M. Arnold, Scott R. Atkins, John R. Hill, Bradley J. Igo, Chris P. James, Richard J. Kubista, Kyle P. Nathan, Aaron W. Webb, Floyd C.
CHARLOTTESVILLE Oliver, Jonathan H.	WHITE PLAINS Canning, Thomas J. Van Hise, Kevin A.	PLEASANTON Chazbek, Chadi Johnson, Miles R. Mowery, Michael C. Sowers, Brian E.	CHARLESTON Edmonson, William C. Guy, Jonathan R.	FRISCO Coppin, Thomas G. McCracken, Paul D. Dickey, Kyle A. Ross, Casey J.
HARRISBURG Bankert, Larry I. McGinley, Steve M.	CALIFORNIA	RIVERSIDE Cowan, Eugene D. Pollock, John A.	CHARLOTTE Blakley, Jr., Stephen W. Denney, Seth A. Edwards, Matthew A. Lewis, Ryan T. Racer, Joseph M. Taylor, Benjamin S.	IRVING/LAS COLINAS Ante, Louis N.
LOUDOUN Bollinger, Kyle T. Giffin, Geoffrey D. Stevens, Ross S.	COACHELLA VALLEY Sutton, Mike S.	SACRAMENTO Bhatt, Sheetal K. Melvin, Enda Pittalwala, Fareed S. Schmitt, Michael L. Tait, Zachary T. Weir, Matthew D.	COLUMBIA Iser, Christopher M.	FLORIDA
NORTHERN VIRGINIA Carter, Erica V. D'Alessandro, Jonathan J. Elman, Paul D. Frosch, Colin Howell, Christopher M. Kauppila, John L. Knox, Sarah E. Koopman, Jennifer R. Lefton, Steven E. Millot, Sean M. Musson, David B. Powell, Meredith P. Prunty, Robert W. Samba, David B. Sauro, Thomas J. Schrader, Carly N. Smith, Andrew T. Teague, M. Zach Whyte, Richard D.	LONG BEACH Hewitt, Melissa A. Phillips, Chad E. Starkey, Jonathan H.	SANTA CLARITA Chakravarthy, Srikanth	DURHAM Lewellyn, Earl R. Raney, Nolan D.	BOCA-DELRAY Webber, Jason A. Haggerty, Jordan L.
PHILADELPHIA CENTER CITY Harmon, Amanda R. Hughes, Paul W. Morgan, Taylor M.		SAN DIEGO Barlow, Matthew T. Becker, Justin S. Harry, Jennifer L. Kaltsas, Joseph D. Madsen, Michael P. McCormick, Matthew B. McWhorter, Samuel L. Podegrac, Anthony J.	FORT MILL Holcomb, John E.	DAYTONA BEACH Stubbs, Jarod C.
			GREENVILLE Hensley, Stephen A.	FORT LAUDERDALE Alam, Mudassar M. Capelli, Jill A. Cordasco, John L. Dabkowski, Adrian K. Emmons, Erin N. Falce, Christopher T.
			HOLLY SPRINGS Brewer, William J.	
			RALEIGH Adams, Richard C. Barber, Barry L. Beck, Chadwick W. Brewer, Brian J. Cochran, Adam P. Cook, Richard N. Flanagan, Tammy L. Glass, Brianne M. Howell, Cory J. Keil, Ashley R. Kuzenski, John D. Leverett, Christopher C.	

Kimley-Horn and Associates, Inc.
FULL CONTRACT SIGNING AUTHORITY
December 17, 2024

McWilliams, John J.
Robertson, Stewart E.
Viola, Stefano F.

FORT MYERS

Bryant, M. Lewis
Clark, Kellie R.

GAINESVILLE

Brighton, Ali H.
Towne, Christopher D.

JACKSONVILLE

Brenny, Martin T.
Deitsch, Brian S.
Mecca, Joseph P.
Mullis, Raiford M.
Roland, George E.
Shelton, Mark W.

LAKELAND

Lewis, Jason A.
Wilson, Mark E.
White, Wayne E.
Wynn, Jared M.

LAKE NONA

Ashby, Brian S.
Stickler, Brooks A.

MELBOURNE

Husainy, Kinan F.

MIAMI

Almonte, Leonte I.
Baldo, Burt L.
Buchler, Aaron E.
Collier, Julio A.
Fernandez, Jorge L.
Fye, Barton J.

OCALA

Busche, Richard V.
Gartner, Amber L.
Losito, Gene B.

ORLANDO

Chau, Hao T.
Lenzen, Brent A.
Littrell, Lance R.
Martin, Jonathan A.
Mingonet, Milton S.
Roberts, Heather A.
Thigpen, Jonathan D.
Wetherell, Ryan S.

PALM BEACH
GARDENS

Long, Jamea M.
Meyer, Alexis E.

SARASOTA

Cianfaglione, Christopher
D.

Klepper, B. Kelley
Leep, Jordan E.
Pankonin, James R.
Schmid, Seth E.

ST. PETERSBURG

Arriaga, Brooke R.
Bishop, Mark C.
Dodge, Dawn M.
Walker, Jordan W.

TALLAHASSEE

DeVeau, Zachariah A.
Kalbli, Shawn C.
Lewis, Kelsey V.

TAMPA

Bulloch, Kelly B.
Collins III, Carroll E.
Gilner, Scott W.
Lee, Nathan Q.
Nadeau, Gary J.

VERO BEACH

Good, Brian A.
Hollen, Christopher J.
Lawson, Jacob B.
Roberson, Kevin M.
Thomas, Melibe S.
Van Rens, Peter J.

WEST PALM BEACH

Lee, Jason R.
Rapp, Bryan T.
Regueiro, Eric
Schanen, Kevin M.
Schwartz, Michael F.
Tercilla, Lindsey A.
Walthall, David W.

WPB DOWNTOWN

Heggen, Christopher W.
Spruce, Michael D.

MIDWEST

CHICAGO

DOWNTOWN

Lemmon, Peter C.
Marnell, Colleen L.
Mayer, Joseph P.
Morton, Jr., Arthur J.
Panter, Jake H.
Whitson, Bryan D.

CHICAGO NORTH

SUBURBS

Cooper, Jason C.
Tracy, Eric J.
West, Craig L.

CHICAGO WEST

SUBURBS

Fancler-Splitt, Rory K.

Garner, Chad S.
Heinen, Andrew N.
Kaufman, Phil R.
Walker, Michaela E.
Walker, William A.

COLUMBUS

Muller, Justin M.
Reeves, Michael C.
Schall, Andrew J.
Schnug, Regan A.

INDIANAPOLIS

Butz, Jr., William A.
Timko, Michael J.
Sheward, Bryan A.
Woffred, Maurice A.

KANSAS CITY

Kist, Matthew D.
McKerrow, Jeff D.
Myers, Zachary

NORTHEAST OHIO

Clements, Kevin J.

TWIN CITIES

Bourdon, Brandon J.
Coyle, Daniel J.
Elegert, Brandon R.
Hume, Robert M.
Jensen, Matthew D.
Matzek, William D.
Phipps, Ryan A.
Schmitz, William J.
Wall, Lisa M.
Zimmerman, David

TWIN CITIES - SOUTH

Fosmo, Eric J.

TWIN CITIES- WEST

Kuhnau, JoNette L.
Manning, Jon T.
Wurdeman, Brian M.

MOUNTAIN PACIFIC

ASPEN

Christensen, Bryce E.

BOISE

McDougald, Brandon D.
Nicholson, Tim P.

BROOMFIELD

Pratt, Anthony J.

COLORADO SPRINGS

Gunderson, Eric J.
Hess, Mitchell O.

DENVER

Andryscik, Kory J.

Colvin, Scott W.
Garinger, Amy M.
Heiberger, John R.
Krell, Gabriel M.
Phelps, Randall J.
Rowe, Curtis D.
Salvagio, Robin
Skeehan, Daniel L.
Sobieski, Dennis M.
McGee, Meaghan M.
Valentine, Brian W.
Wilhelm, William R.

EVERETT

Lincoln, Bradley J.

FORT COLLINS

Felton, Emily P.

PORTLAND

Belsick, Jody W.
Meyerhofer, Peter N.

SALT LAKE CITY

Crowther, Brent C.
Gresham, Teresa R.
Johnson, Zachary A.
O'Brien, Molly M.

SEATTLE

Chen, Nicholas R.
Kamerath, Marcy
Reeverts, Canaan H.
Williams, David S.

SOUTHWEST

LAS VEGAS

Ahartz, Shannon R.
Jones, Christopher R.
Moles, Richard A.
Moore, Devin V.
Mosley, Michael S.
Wolf, Treasea

MESA

Burm, Jason M.
Grandy, Michael L.
Margetts, Sterling T.
Mutti, Brent H.
Wainum, Nathan C.

PHOENIX

Christian, Rajesh S.
Connelly, Alissa J.
Delmarter, Michael L.
Ehrick, Taylor R.
Henderson, Benjamin J.
Thoma, Jayme R.
Kimm, Kevin J.
Kissinger, John C.
Leistiko, David J.
Marella, Damon J.
Perillo, Adam C.

Sjogren, Timothy P.
Smalkoski, Brian R.
RENO
Hildebrandt, Timothy H.
Nasset, Brent J.

SCOTTSDALE

Jupp, Andrew M.
Rutkowski, David R.

TUCSON

Payne, Kevin W.
Rhine, Timothy J.

SOUTH

ALPHARETTA

Dufour, Zachary J.
Fanney, Angela L.
Fanney, Lawson H.
Hamilton, James R.
James, Alvin B.
Shearouse, Sarah
Stricklin, David L.
Walker, John D.
Zittrauer, Derek M.

PEACHTREE

CORNERS

Ergle, Kevin B.
Fink, Kenneth L.
Smith, Patrick N.

ATLANTA MIDTOWN

Bosman, Eric S.
Coleman, Sean H.
Elsy, Jeffrey B.
Pastore, Cristina C.
Ross, Robert A.
Triplett, Katherine R.

BIRMINGHAM

Bailey, Clark B.
Johnson, Elizabeth H.

CHATTANOOGA

Skidmore, Benjamin W.

FRANKLIN

Espelet, Leonardo E.

MEMPHIS

Danley, Drake E.
Minor, Henry W.
Peregoy, Samuel J.
Peregoy, Jennifer M.

MOBILE

Starling, Charles H.

NASHVILLE

Boyd, Mark R.
Creasman, Brett R.
McMaster, Ryan L.

Kimley-Horn and Associates, Inc.
FULL CONTRACT SIGNING AUTHORITY
December 17, 2024

Neal, Philip H.
Rhodes, Christopher D.

SAVANNAH

Gwaltney, Jamie N.
Marsengill, Chris C.

WOODSTOCK

West, Brian B.

TEXAS SOUTH

AUSTIN EAST

Ponton, Clinton J.

AUSTIN NORTH

Boecker, Brian C.
Hudson, Harrison M.
Kiewit, Jordan S.
Neal, Trey A.
Parker, Brian J.
Araque, Santiago A.
VanLeeuwen, Andrew W.

AUSTIN SOUTH

Mason, Sean R.
Williams, Robert B.

BRYAN/COLLEGE
STATION

Harris, Joseph C.
Lucas, Michael D.

HOUSTON

Cargill, Kenneth W.
Deshpande, Vivek
Frysinger, Ashley M.
Frysinger, Chris V.
Guillory, Michael B.

PEARLAND

Hall, Andrew T.

SAN ANTONIO

Brignon, Brit A.
Farnsworth, Jeffrey A.
Holscher, Nicholas F.

THE WOODLANDS

Freeman, Jr., Steven C.
Kirland, Mark R.
Lewis, Tyler W.

CONSULTANT SERVICES AUTHORIZATION NO. 1
Palm Beach County Water Utilities Department
Contract for Consulting/Professional Services
Water Treatment Plant No. 2 Expansion
Resolution No. R2024-1424 Contract Dated October 22, 2024

LIST OF ATTACHMENTS

ATTACHMENT A	Scope of Services
ATTACHMENT B	Summary and Status of Consultant Services Authorizations
ATTACHMENT C	OEBO Schedules 1 and 2
ATTACHMENT D	Project Schedule
ATTACHMENT E	Budget Summary
ATTACHMENT F	Summary of SBE-M/WBE Business Tracking
ATTACHMENT G	Location Map

Revised 06-12-24

ATTACHMENT A

SCOPE OF SERVICES

PBCWUD Project No.: 24-033

Project Title: Water Treatment Plant No. 2 Expansion

Background:

This Consultant Services Authorization (CSA) encompasses the services to be provided by Kimley-Horn and Associates, Inc. (CONSULTANT) for Palm Beach County Water Utilities Department (PBCWUD) related to the Water Treatment Plant (WTP) No. 2 Facility Improvements. The United States Environmental Protection Agency (USEPA) provided Public Water Systems (PWS) a deadline of April 1, 2029, to be compliant with Per- and Poly-fluoroalkyl Substances (PFAS) Maximum Contaminant Level (MCL). Raw water from WTP No. 2 currently exceeds the MCL and PBCWUD is preparing to design and construct improvements to reduce the finished water concentrations below the MCL. This CSA encompasses the Basis of Design Report (BODR) for the improvements to be constructed.

PBCWUD owns and operates four (4) water treatment plants (WTPs) within their eastern service area. WTP No. 2 employs conventional lime softening and magnetic ion exchange (MIEX) treatment that does not currently remove enough PFAS constituents from the raw water stream to meet the USEPA MCL. WTP No. 2 is a 16.4 million gallons per day (MGD) rated capacity facility that withdraws raw water from sixteen (16) existing Surficial Aquifer System (SAS) wells. The wellfield has a 22.6 MGD Consumptive Use Permit (CUP) allocation from the South Florida Water Management District (SFWMD), based on average daily flow.

PBCWUD recently retained the services of a separate consultant to evaluate and provide recommendations in the *Capacity Assessment for Compliance with PFAS Regulations* report with respect to capacity at WTP No. 2 to be PFAS compliant. Based on the evaluation performed and recommendation provided by others, PBCWUD has elected to proceed forward with improvements at WTP No. 2 to include construction up to 30 MGD of treatment capacity to help offset other PFAS treatment in PBCWUD's eastern service area. The treatment technology to be employed at WTP No. 2 is recommended to be nanofiltration (NF). The NF treatment technology will be used to blend finished water with the existing MIEX and lime softening process to reduce the overall finished water PFAS concentrations below the MCL. This CSA consists of the BODR development for the proposed improvements at WTP No. 2.

TASK 1 – BASIS OF DESIGN REPORT

CONSULTANT will review Report prepared by others. CONSULTANT will develop review comments and list of items for clarification that will be utilized for this basis of design.

CONSULTANT will visit up to one (1) WTP with PBCWUD staff to vet design decisions and get PBCWUD feedback with regards to preferences on WTP No. 2 layout.

CONSULTANT will visit the WTP No. 2 site up to three (3) times to collect information and review siting alternatives for proposed WTP equipment.

CONSULTANT will coordinate with vendors for equipment to be utilized for the WTP improvements. The vendor coordination will yield equipment information that will be utilized for the basis of design and cost estimate.

CONSULTANT will identify raw water capacity requirements based on the use of specific membrane treatment processes and an estimated recovery rate through the membrane treatment process. CONSULTANT will evaluate existing WTP No. 2 wellfield consumptive use allocation, pumping capacities and related information. CONSULTANT will evaluate number of additional SAS wells required and prepare basis of design for proposed wells. CONSULTANT will utilize the services of JLA Geosciences, Inc. for hydrogeological professional services to develop basis of design for raw water wellfield improvements.

CONSULTANT will review raw water quality as a basis for determining the type of pretreatment necessary for the membrane treatment process, and if the existing components can be used for pretreatment. It is assumed raw water quality data is already collected and will be provided by the PBCWUD. CONSULTANT will evaluate the pre-treatment system requirements for the membrane system. CONSULTANT will review the water quality from WTP No. 2 wellfield to develop recommended treatment technique. CONSULTANT will size proposed pre-treatment equipment.

CONSULTANT will review the membrane feedwater pump configuration for implementation. CONSULTANT will make recommendations with respect to dedicated feed pumps or manifolded feedwater header.

CONSULTANT will prepare design criteria for the membrane trains. CONSULTANT will coordinate with PBCWUD to develop NF train capacity rating to coincide with operational preferences and practical limitations of the WTP at buildout capacity. CONSULTANT will prepare list of acceptable membrane manufacturers and prospective elements that will be suitable for use based on membrane projections.

CONSULTANT will evaluate the need for concentrate booster pumps. CONSULTANT will develop basis of design to provide adequate pressure on concentrate main to overcome deep injection well back pressures that may otherwise impact operation of the NF system. CONSULTANT will prepare basis of design for pump station, if determined necessary.

CONSULTANT will evaluate the post-treatment requirements for the nanofiltration permeate. CONSULTANT will size degasification towers and off-gas treatment systems to remove and treat hydrogen sulfide from the product water.

CONSULTANT will evaluate prospective clearwell structure size and configuration. CONSULTANT will review configurations needed to effectively blend product water from the NF system and the existing MIEX/Lime Softening process. CONSULTANT will determine extent of work to achieve 4-log virus inactivation through the proposed configuration.

CONSULTANT will evaluate the existing treatment process and blend ratios for effectiveness in achieving regulatory compliance with respect to PFAS removal. CONSULTANT will evaluate alternative PFAS "polishing" treatment techniques that may be employed within, or after, the existing treatment process. CONSULTANT will generate basis of design for the proposed treatment technique.

CONSULTANT will evaluate transfer pump configuration to draw product water from clearwell and pump to the ground storage tanks.

CONSULTANT will prepare basis of design for additional ground storage tanks to be utilized for storage of treated finished water. CONSULTANT will evaluate use of the existing 2.5 Million Gallon (MG) ground storage with the additional proposed storage tank and where appropriate, provide recommendations to continue use, re-purpose, or demolish the tank.

CONSULTANT will prepare basis of design for new high service pump station. CONSULTANT will prepare a conceptual layout and description that depicts new electrical building and supporting infrastructure for the high service pump building. CONSULTANT will configure high service pump station to provide redundancy in finished water supply to the station and finished water distribution from the station to the transmission main. Hydraulic modeling for finished water high service pump station shall be completed under this task and includes the hydraulics from the pump station to the point of connection on Pinehurst Drive.

CONSULTANT will generate a basis of design for chemical and ancillary systems needed to support the primary treatment equipment. These chemicals are anticipated to include but are not limited to scale inhibitor, sulfuric acid, sodium hydroxide, sodium hypochlorite, fluoride, corrosion inhibitor and ammonia.

CONSULTANT will prepare basis of design for neutralization pit for chemicals and chemical lift station to provide disposal for neutralized chemical waste, scrubber, blowdown, process room trench/floor drains, etc.

CONSULTANT will prepare basis of design for the proposed membrane Clean-in-Place (CIP) and permeate flush systems.

CONSULTANT will review blend ratios with the MIEX/Lime Softening Process. A recommended blend ratio will be provided based on PFAS sampling data and mass balancing with the membrane system to maintain concentrations below the MCL. Based on limitation of existing MIEX and lime softening equipment, a recommendation with respect to further polishing for PFAS may be provided and elaborated on within the basis of design.

CONSULTANT will develop basis of design for electrical and instrumentation improvements needed to support the proposed work. CONSULTANT will utilize the services of Hillers Electrical Engineering, Inc. for this development. CONSULTANT shall identify additional standby generator capacity and fuel sizing requirements. CONSULTANT will prepare basis of design for multiple electrical supply sources for the proposed WTP and additional well sites. Each of the associated components shall be located on the proposed site plans maintaining the minimum separation distances from Surficial Aquifer Supply wells and other monitor wells, as required by applicable regulations.

CONSULTANT will develop basis of design for preliminary control system block diagram sketch and Supervisory Control and Data Acquisition (SCADA) system improvements needed for the proposed WTP Improvements. CONSULTANT will utilize the services of Hillers Electrical Engineering, Inc. for this development.

CONSULTANT will review the anticipated permits required to construct the intended improvements. Consultant will arrange up to one (1) pre-application meeting with each of the identified agencies for up to six (6) meetings which may include:

- Florida Department of Environmental Protection (FDEP)
- Lake Worth Drainage District (LWDD)
- South Florida Water Management District (SFWMD)
- Palm Beach County Parks and Recreation
- Palm Beach County Environmental Resources Management (PBCERM)
- Palm Beach County Planning, Zoning, and Building Department (PBCPZBD)

Using the identified treatment component capacities, CONSULTANT will develop the approximate physical size of the proposed membrane facilities and supporting systems. CONSULTANT will prepare site plans showing all existing major facilities and proposed improvements including major pipelines and ground storage tanks.

CONSULTANT will develop up to two (2) site plans to accommodate the treatment processes and components shown on the Process Flow Diagrams (PFDs) including phasing of construction of any new facilities while maintaining operation of the existing facilities until they are no longer needed. Siting of the preliminary proposed raw water wells will be shown on an aerial site plan, along with the preliminary raw watermain alignment from the wellfield to the WTP. Criteria for setbacks included in the Palm Beach County Unified Land Development Code (ULDC) will be applied. Any temporary and permanent easement requirements will be identified.

CONSULTANT will prepare basis of design for the proposed buildings to be constructed with the WTP improvements.

CONSULTANT will utilize the services of HBC Engineering Company for structural basis of design for the proposed buildings.

CONSULTANT will utilize the services of Colome' & Associates, Inc. for the proposed architectural requirements including life safety plan, ULDC requirements, and other items needed.

CONSULTANT will utilize the services of Hillers Electrical Engineering, Inc. for the proposed electrical and instrumentation for the proposed buildings.

CONSULTANT will utilize Hillers Electrical Engineering, Inc. for the proposed site security and fire alarm system description for the proposed WTP Improvements.

CONSULTANT will identify Heating, Ventilation, and Air Conditioning (HVAC) requirements associated with the proposed building(s) and equipment. CONSULTANT will evaluate the preliminary design of plumbing, fire protection, and chemical feed system for the proposed building(s). CONSULTANT will utilize the services of CHA Consulting, Inc. for HVAC system basis of design.

CHA Consulting, Inc. will visit the site up to one (1) time and review pertinent features that may impact design or construction. CHA Consulting, Inc. will meet with Kimley-Horn and Associates, Inc. up to one (1) time to discuss and confirm project requirements and design criteria.

CONSULTANT will develop a new BODR which will utilize the *Water Treatment Plant #2 Expansion Study, PBCWUD 17-019* completed for the facility. The BODR will contain schematic layouts, Process Flow Diagrams (PFD) and conceptual design criteria with appropriate exhibits to indicate the design considerations involved (including applicable requirements of governmental authorities having jurisdiction). The BODR will define and reflect the work that is proposed to construct capacity outlined in the recommendations by others.

The BODR will outline the purpose of each treatment component, capacity requirements, design considerations and equipment. CONSULTANT's basis of design will include the following items:

1. Surficial Aquifer System (SAS) Wellfield
2. Physical Pre-treatment
3. Membrane Feedwater Pumps
4. Membrane Process Trains
5. Concentrate Booster Pumps (if determined to be necessary)

6. Post-treatment for Aeration and Stabilization
7. Clearwell Structure and Transfer Pumps
8. Finished Water Storage
9. High Service Pumping
10. Chemical Systems
11. Membrane CIP System
12. Membrane Permeate Flush System
13. Blending of MIEX treated water with NF treated water
14. Electrical and Standby Power
15. HVAC
16. SCADA System
17. Security & Fire Alarms
18. Buildings

The BODR will include the following drawings:

1. Process Flow Diagrams
2. Preliminary Site Plans
3. Hydraulic Profiles
4. Preliminary Building Layouts
5. Tank Locations and Layouts
6. Conceptual Level Elevated Structures and Equipment Views

CONSULTANT will prepare an Opinion of Probable Construction Costs (OPCC) for the proposed WTP improvements.

CONSULTANT will prepare a schedule that outlines the project critical elements and durations. In effort to meet PBCWUD's schedule, the project may consist of multiple construction packages to expedite the work. This schedule to be developed within the BODR will consist of preliminary engineering tasks, design, permitting, bid phase and construction durations for each respective construction contract.

CONSULTANT will prepare a draft version of the Basis of Design Report for review and comment by PBCWUD stakeholders. One (1) review meeting will be completed to collect and discuss comments from the PBCWUD staff and identify a collaborative path forward for the final document. CONSULTANT will prepare a final version of the Basis of Design Report to incorporate review comments by PBCWUD stakeholders.

CONSULTANT will utilize the services of the following SUBCONSULTANTS for professional services to be rendered under this task:

- Hillers Electrical Engineering, Inc. – Electrical Engineering
- Colome & Associates, Inc. – Architectural
- HBC Engineering Company – Structural
- JLA Geosciences, Inc. – Hydrogeological Engineering
- CHA Consulting, Inc. – HVAC Engineering

SUBCONSULTANT proposals are provided herein.

Task 1 Deliverables:

- Agency Pre-application Meetings (6)
- Draft Basis of Design Report
- Final Basis of Design Report

TASK 2 – HYDRAULIC MODELING

CONSULTANT will perform hydraulic modeling of the WTP No. 2 wellfield. Changes to well pump size and Total Dynamic Head (TDH) will be reviewed as the basis of design for improvements to the existing wellfield. CONSULTANT will evaluate feasibility of construction of a raw water booster pump station for WTP No. 2 wells, in lieu of improvements to entire wellfield. CONSULTANT will prepare a technical memorandum for WTP No. 2 well field. This effort will utilize PBCWUD's existing model and does not include structural updates, calibrations, or other changes to the model.

CONSULTANT will perform the hydraulic modeling of the PBCWUD distribution system for the proposed high service pump station at WTP No. 2. This effort will utilize PBCWUD's existing model and does not include structural updates, calibrations, or other changes to the model.

CONSULTANT will prepare a technical memorandum for the high service pump modeling that summarizes the findings of the hydraulic modeling for pumping potable water to the consolidated eastern system. The technical memorandum will identify the maximum practical peak flow rate based on existing infrastructure. The technical memorandum is anticipated to be 2-3 pages in length.

CONSULTANT will utilize the services of C Solutions, Inc. for hydraulic modeling efforts within this task. CONSULTANT will support C Solutions, Inc. hydraulic modeling efforts.

CONSULTANT will utilize the services of the following SUBCONSULTANTS for professional services to be rendered under this task:

- C Solutions, Inc. – Hydraulic Modeling

SUBCONSULTANT proposals are provided herein.

Task 2 Deliverables:

- WTP No. 2 Raw Watermain and Wellfield Technical Memorandum
- WTP No. 2 High Service Pump Sizing Technical Memorandum

TASK 3 – FUNDING SUPPORT

The CONSULTANT will provide funding and regulatory leadership support through the basis of design. This effort will be supportive of identifying additional funding for the design, construction, and public outreach phases of the project. This section will apply to the preliminary engineering portion of the project.

CONSULTANT will identify additional funding avenues for construction and present to PBCWUD staff for consideration.

CONSULTANT will provide strategic advice and consultation regarding climate resilience and water resource management programs in Florida, with specific emphasis on identifying opportunities to solicit and receive funding support from the state and applicable entities.

CONSULTANT will utilize the services of the following SUBCONSULTANTS for professional services to be rendered under this task:

- Anfield Consulting Group, Inc. – Funding Support

CONSULTANT will prepare a memorandum that summarizes the current funding secured, potential funding avenues available and recommend funding alternatives for each element of the proposed project. CONSULTANT will outline the requirements tied to each funding opportunity for PBCWUD consideration.

CONSULTANT will submit draft memorandum to PBCWUD for review. CONSULTANT will address PBCWUD comments and finalize memorandum.

PBCWUD is actively pursuing funding alternatives for the proposed work. This CSA includes additional time from CONSULTANT to support PBCWUD's efforts for the existing funding application and/or administration. CONSULTANT assumes up to one-hundred twenty (120) hours of support may be provided.

Task 3 Deliverables:

- Draft Funding Approach Memorandum
- Final Funding Approach Memorandum

TASK 4 – PROJECT MEETINGS, MANAGEMENT AND ADMINISTRATION

CONSULTANT will attend up to thirty-two (32) meetings with PBCWUD staff. The meetings are anticipated to include the following:

1. Project Kickoff
2. Project Invoicing Coordination and Review Meetings (2 total meetings)
3. Project Workshop (3 total meetings)
4. Progress Meeting (4 total meetings)
5. Draft BODR Review Meeting
6. Project Funding Discussion – Draft Memorandum Review Meeting
7. Weekly project meetings (20 total meetings)
 - a. Weekly meetings are anticipated to be held virtually and last for approximately 30 minutes each meeting.

CONSULTANT will provide meeting minutes for each of the thirty-two (32) meetings. Additional meetings beyond those described herein will be considered additional services.

Project management includes activities related to initiating, planning, executing, controlling, and closing the project. Within this Task, the CONSULTANT will be responsible for overall coordination and oversight of the project quality execution. The Design Team Project Manager (PM) will be the primary point of contact with PBCWUD Project Manager (PBCWUD PM) and will lead the CONSULTANT Team during the project execution focusing on completion of the project tasks on schedule and budget.

The CONSULTANT will perform overall project management and coordination tasks such as project planning, project controls, subconsultant management, invoicing and reporting, and oversight of quality assurance/quality control (QA/QC) activities. During this task, the CONSULTANT will complete the following activities or milestones.

The CONSULTANT will prepare a Project Management Plan that describes the CONSULTANT's approach to achieving compliance with the PBCWUD controls, reporting, risk management, health and safety, document management and QA/QC requirements. This document will be delivered during the first month of the project.

The CONSULTANT will manage each of the subconsultants and coordinate the actions required to implement the Design.

The CONSULTANT will prepare monthly progress reports in support of invoices to describe the work completed during the previous reporting period, anticipated work for the following period, current budget and schedule status, and any project issues requiring discussion or resolution. The format and content of the invoice will be in accordance with direction to be provided by the PBCWUD PM.

The CONSULTANT will provide monthly schedule and budget updates prior to month-end closeout. Progress will be reported as an estimate of percent complete of each of the Tasks and activities included in the baseline schedule. These updates will serve as supporting documentation for the monthly invoices. The CONSULTANT's month-end closeout and schedule tasks will include:

- 1) Progress Schedule with estimated percent complete, projected completion dates, identification of potential budget variations, milestone start and completion dates.
- 2) CONSULTANT will provide monthly budget status reports using estimated percent complete, projected budget, and potential budget variations.
- 3) Report design progress with respect to planned baseline progress and follow up on corrective/control measures where required.

Task 4 Deliverables (issued via electronic delivery in .pdf format):

- Project Management Plan
- Baseline Schedule
- Monthly Invoices with Monthly Progress Status Reports
- Monthly Updates to Baseline Schedule
- Meeting Minutes

TASK 5 – PILOT TESTING AND REPORTING

The work in this Task assumes PBCWUD, or a CONTRACTOR employed by PBCWUD, will perform the labor, equipment, shipping and materials to construct the pilot units necessary for CONSULTANT to conduct the performance testing and reporting outlined within this task. Startup and general maintenance of the pilot unit shall be the responsibility of others. In general, the CONSULTANT will provide guidance for construction of the pilot units, observations during construction, startup and testing assistance to PBCWUD staff and reporting of the data collected. All water quality sampling and associated costs shall be the responsibility of PBCWUD as those are not included in this CSA. Day to day operation of the pilot unit, data collection, and other daily activities shall be the responsibility of PBCWUD.

Since the pilot unit is temporary, no permits are anticipated as part of this work. If permits are required, that shall be the responsibility of others.

Task 5.1 – Pilot Testing Protocol and Membrane Selection Criteria

CONSULTANT shall coordinate and support PBCWUD, or PBCWUD's CONTRACTOR in transporting, locating, plumbing, and providing power connections to the pilot testing unit at WTP No. 2. The CONSULTANT will respond up to four (4) requests for additional information from PBCWUD, or PBCWUD's CONTRACTOR, that will be responsible for any and all physical alterations and placement of the pilot skid.

The CONSULTANT will prepare the membrane pilot operating protocol used to test the pre-selected membrane elements summarizing the operating conditions, parameters and configurations for both the membrane selection testing as well as the scale inhibitor testing; data collection plan; fouling determination; and autopsy procedures. The protocol will include a responsibility matrix identifying the party or personnel responsible for the operation, sampling, data collection, data analysis, and review designees. Each person involved in the project will have a defined role and planned effort for the duration of the pilot testing.

The protocol will include preparation of a step-by-step procedure for the pilot testing process detailing the stages of membrane testing, schedule of each stage, and criteria of concern ranges of operation for the operating staff's reporting. A communication plan will be identified should one of the parameters be out of range to notify PBCWUD Staff and CONSULTANT. The protocol will review the conditions of the existing PBCWUD pilot unit. CONSULTANT will determine the extent of modifications, if any, necessary for pilot testing of the nanofiltration process at WTP No. 2. CONSULTANT will coordinate with PBCWUD staff to determine operating location for proposed pilot unit.

CONSULTANT will prepare a membrane selection evaluation criteria for review with PBCWUD staff prior to pilot testing initiation. This selection criteria will be included within the pilot testing protocol. The membrane selection criteria will have a quantifiable selection criterion for identifying satisfactory membrane for current water quality. Additional weighted components of the criteria include energy consumption, fouling and cleaning frequency, as well as bid pricing for the membrane elements.

Task 5.1 Deliverables:

- Draft Pilot Test Protocol
- Final Pilot Test Protocol

Task 5.2 - Pilot Unit Membrane Testing

CONSULTANT assumes acquisition of membrane elements shall be performed by PBCWUD or PBCWUD's selected CONTRACTOR.

CONSULTANT assumes one (1) round of pilot testing will be required to verify pretreatment of raw water at WTP No. 2. PBCWUD will be fully responsible for the transport, modifications and setup of the pilot unit. It is assumed treatment technologies will be run in parallel. It is estimated that pilot testing will resume for 2,000 hours of runtime, which will be approximately three (3) months of continuous operation.

The CONSULTANT will prepare loading instructions for testing membranes in selected vessels for each production train. This Scope of Work includes one (1) pilot study using three (3) separate membranes/membrane configurations with a pilot operation duration of fourteen (14) weeks. This testing will simulate the membrane performance for an equal comparison of each manufacturer (or array).

The CONSULTANT will prepare an electronic spreadsheet format for recording data from the pilot unit. PBCWUD's staff will collect daily routine operating data (pH, conductivities, pressures, flow rates, etc.) from the pilot unit, insert that data in the electronic spreadsheet, and forward the spreadsheet to the CONSULTANT twice per week. Additional sample collection will include a suite of membrane water quality related samples to be tested by an independent laboratory prior to pilot startup. All sampling events and laboratory testing will be coordinated by the CONSULTANT and paid directly by PBCWUD to the laboratory selected for the analysis.

The CONSULTANT will establish protocol for performing membrane autopsies that will be used to determine fouling/scaling that may be occurring on the membrane that is not indicated in the pilot operating data. Frequently, pilot testing is not able to be operated for the longer periods needed to collect the operating data to indicate there is fouling/scaling occurring. CONSULTANT assumes that up to six (6) membrane autopsies will be performed. Costs for the autopsies, removal and shipment of elements shall be performed by others.

CONSULTANT shall provide monthly test results in graphical format to PBCWUD, the installed membrane manufacturers, and their representatives. This documentation will be presented to PBCWUD at each monthly progress meeting.

CONSULTANT will provide up to fourteen (14) pilot testing process inspection site visits to WTP No. 2 to review the NF pilot unit operation and system condition.

Task 5.2 Deliverables:

- Water Quality Testing Coordination with Laboratory
- Data Recording Spreadsheet
- Membrane Autopsy Protocol
- Monthly Test Results (3 months)
- Pilot Process Inspection Site Visits (up to 14 total)

Task 5.3 – PFAS Pilot Testing Protocol and Pilot Testing

The work in this Task assumes PBCWUD's existing treatment process is insufficient to remove PFAS to an acceptable level to blend with the NF finished water. CONSULTANT will assess and provide alternatives for pilot testing efforts to verify the selected alternative for treatment modification. CONSULTANT will provide a technical evaluation of potential treatment alternatives to provide additional PFAS removal, or "polishing," from the finished water. The alternatives will include but not be limited to Granular Activated Carbon (GAC), ion exchange, adsorptive medias, and super critical oxidation techniques currently being developed within the drinking water industry. It is planned to incorporate a replacement of the anthracite media in one of the filter beds to perform a partial-scale treatment test to verify if media replacement is a viable alternative for WTP No. 2.

In addition to the GAC filter bed replacement testing, the CONSULTANT will perform a desktop analysis and concept plan to integrate the top selected alternative into the existing treatment process prior to blending with the NF finished water. Once the desired process is selected, the pilot testing protocol will be developed to define the pilot testing and demonstrate the technology's effectiveness in removing PFAS from the existing process water. The CONSULTANT will review the alternatives and pilot testing protocol with PBCWUD staff for input and concurrence with the direction forward to demonstrate via pilot testing.

CONSULTANT will be responsible for coordinating pilot testing vendors to provide media, pilot testing equipment and apparatuses as well as coordinate power and utilities to the pilot equipment. Any fees related to the mobilization, demobilization, shipping, installation, operation, and repairs to pilot testing unit rental or procurement shall be paid directly by PBCWUD.

All pilot testing operation and data collection shall be provided by the PBCWUD operations staff. The CONSULTANT will attend startup and testing of the pilot unit and processes as well as regular visits every other week to the pilot testing unit operation. All data collected shall be delivered to CONSULTANT twice per week for analysis by the CONSULTANT's staff. All sampling events and laboratory testing will be coordinated by the CONSULTANT and paid directly by PBCWUD to the laboratory selected for the analysis.

CONSULTANT shall provide monthly test results in graphical format to PBCWUD, the installed membrane manufacturers, and their representatives. This documentation will be presented to PBCWUD during each progress meeting.

CONSULTANT will provide up to sixteen (16) pilot testing process inspection site visits during the three (3) month duration to WTP No. 2 to review the "polishing" pilot unit operation and system condition.

Task 5.3 Deliverables:

- Water Quality Testing Coordination with Laboratory
- Pilot Testing Protocol
- Data Recording Spreadsheet
- Coordination with Pilot Equipment Vendors
- Monthly Test Results (x6 months)

Task 5.4 - Prepare Report

CONSULTANT will prepare up to three (3) pilot testing reports (NF, GAC Filter Bed, and alternative polishing technologies) which present the findings and recommendations of the pilot testing program technologies described in this Task. CONSULTANT will provide each pilot testing report in electronic format (.pdf) and attend one (1) meeting each to discuss the findings and draft report. The report will provide recommendations for the system design, including physical and chemical additions.

CONSULTANT will prepare the pilot testing reports summarizing the results of each of these tasks for WTP No. 2. The CONSULTANT will provide draft report sections related to that facility's pilot testing for review and comment by PBCWUD. Following review, CONSULTANT will attend and lead a report review meeting for each report with the PBCWUD staff to collect comments and discuss any questions or thoughts prior to finalizing the reports. CONSULTANT will consolidate the comments, update the reports to incorporate the comments identified and discussed at the review meetings. The final reports will be submitted to formalize the effort and direction forward for the respective portion of the project design. CONSULTANT will discuss with PBCWUD at a final review meeting.

Subtask 5.4 Deliverables:

- Up to three (3) Draft Pilot Testing Report
- Up to three (3) Final Pilot Testing Report

ATTACHMENT C

OEBO SCHEDULE 1

Office of Equal Business Opportunity Compliance Programs

OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: Water Treatment Plant No. 2 Expansion

SOLICITATION/PROJECT/BID NO.: 24-033

SOLICITATION OPENING/SUBMITTAL DATE: N/A

COUNTY DEPARTMENT: Palm Beach County Water Utilities Department

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Kimley-Horn and Associates, Inc.

1920 Wekiva Way, West Palm Beach, FL 33411

CONTACT PERSON: Nick Black, P.E.

PHONE NO.: 561-845-0665

E-MAIL: nick.black@kimley-horn.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$1,102,610.52

*SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

Non-SBE MBE WBE SBE

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE Minority Business	WBE Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Asian	Other
	1. Anfield Consulting Group, Inc. 201 W Park Avenue, Suite 100 Tallahassee 32301-7759 905-297-2102	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2. CHA Consulting, Inc. 3 Winners Circle Albany 12205-1161 (518) 493-4500	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						\$26,165.92
3. C Solutions, Inc. 2890 W State Road 84 Danla Beach 33312 561-244-9480	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$155,430.00					
4. Colome' & Associates, Inc. 530 24th Street West Palm Beach 33407-5404 561-833-9147	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			\$260,615.07			
5. JLA Geosciences, Inc. 1907 Commerce Lane, Suite 107 Jupiter, FL 33458 561-746-0228	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				\$42,562.00		
Total					\$289,721.52	\$114,206.04	\$260,615.07	\$42,562.00	0.00	\$61,862.62

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ 1,871,577.77

Total Certified S/M/WBE Participation \$ 707,104.63

I hereby certify that the above information is accurate to the best of my knowledge: Lance Littrell, P.E.

Lance R. Littrell
Vice President

Name & Authorized Signature

Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

If you have experienced or witnessed a violation of the EBO



OEBO SCHEDULE 1

SOLICITATION/PROJECT/BID NAME: Water Treatment Plant No. 2 Expansion
 SOLICITATION OPENING/SUBMITTAL DATE: N/A

SOLICITATION/PROJECT/BID NO.: 24-033
 COUNTY DEPARTMENT: Palm Beach County Water Utilities Department

Section A PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: Kimley-Horn and Associates, Inc. ADDRESS: 1920 Wekiva Way, West Palm Beach, FL 33411
 CONTACT PERSON: Nick Black, P.E. PHONE NO.: 561-845-0665 E-MAIL: nick.black@kimley-horn.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$1,102,610.52
 *SMWBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.
 Non-SBE MBE WBE SBE

Section B PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)				DOLLAR AMOUNT OR PERCENTAGE OF WORK					
	Non-SBE	MBE	WBE	SBE	Black	Hispanic	Women	Caucasian	Asian	Other
		Minority Business	Women Business	Small Business						
1. HBC Engineering Company 8935 NW 35th Lane Doral 33172-1217 305-232-7932	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$134,291.52					
2. Hillers Electrical Engineering, Inc. 23257 State Road 7 #100 Boca Raton 33429 561-451-9165	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$114,206.04				
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Total					\$289,721.52	\$114,206.04	\$260,615.07	\$42,562.00	0.00	\$61,862.62

(Please use additional sheets if necessary)

Total Bid/Offer Price \$ 1,871,577.77
 Total Certified S/M/WBE Participation \$ 707,104.63

I hereby certify that the above information is accurate to the best of my knowledge: Lance Littrell, P.E. *Lance R. Littrell* Vice President
 Name & Authorized Signature Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
 - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
 - Modification of this form is not permitted and will be rejected upon submittal.
 - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

If you have experienced or witnessed a violation of the EBO



ATTACHMENT C

OEBO SCHEDULE 2

Office of Equal Business Opportunity Compliance Programs

Revised 06-12-24

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 24-033
 SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: Anfield Consulting Group, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input checked="" type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
	Funding Consultant				\$35,696.70

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$35,696.70

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A
 Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.

Print Name of Prime

By: *Lance R. Littrell*
 Authorized Signature

Lance Littrell, P.E.

Print Name

Vice President

Title

Date: 1/6/25

Anfield Consulting Group, Inc.

Print Name of Subcontractor/subconsultant

By: *Albert Balido*
 Authorized Signature

Albert Balido

Print Name

Managing Partner

Title

Date: 1/6/25



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code

OEBO LETTER OF INTENT – SCHEDULE 2

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: 24-033

SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: CHA Consulting, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
	Mechanical Engineering				\$26,165.92

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$26,165.92

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A

Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.
 Print Name of Prime
 By: *Lance R. Littrell*
 Authorized Signature
Lance Littrell, P.E.
 Print Name
Vice President
 Title
 Date: 1/15/2025

CHA Consulting, Inc.
 Print Name of Subcontractor/subconsultant
 By: *Michael A. Platt*
 Authorized Signature
Michael A. Platt
 Print Name
Secretary
 Title
 Date: 01/15/2025



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OEBO LETTER OF INTENT – SCHEDULE 2

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SOLICITATION/PROJECT NUMBER: 24-033

SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: C Solutions, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 2/10/23 - 2/9/26

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Hydraulic Modeling				\$155,430.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$155,430.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A

Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.

Print Name of Prime

By: *Lance R. Littrell*
Authorized Signature

Lance Littrell, P.E.

Print Name

Vice President

Title

Date: 1/6/2025

C Solutions, Inc.

Print Name of Subcontractor/subconsultant

By: *Mark Drummond*
Authorized Signature

Mark Drummond, P.E., B.C.E.E.

Print Name

President

Title

Date: 1/6/2025



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OEBO LETTER OF INTENT – SCHEDULE 2

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SOLICITATION/PROJECT NUMBER: 24-033

SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: Colome' & Associates, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 3/14/22 - 3/13/25

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input type="checkbox"/> Male <input checked="" type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Architecture				\$260,615.07

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$260,615.07

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A

Name of 2nd/3rd tier Subcontractor/subconsultant

Price or Percentage: N/A

Kimley-Horn and Associates, Inc.

Print Name of Prime

By: *Lance R. Littrell*

Authorized Signature

Lance Littrell, P.E.

Print Name

Vice President

Title

Date: 1/13/2025

Colome' & Associates, Inc.

Print Name of Subcontractor/subconsultant

By: *Elizabeth A. Colome'*

Authorized Signature

Elizabeth A. Colome'

Print Name

President

Title

Date: 1/13/2025



If you have experienced or witnessed a violation of the OEBO Ordinance or would like to file a complaint, please scan the QR Code

Revised 09/26/2024

OEBO LETTER OF INTENT – SCHEDULE 2

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SOLICITATION/PROJECT NUMBER: 24-033

SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: JLA Geosciences, Inc.

(Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 4/10/23 - 4/9/26

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

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Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
	Hydrogeologic Consulting				\$42,562.00
	Commodity Codes: 91843,91855,92683,96143,96892				

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$42,562.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A

Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.

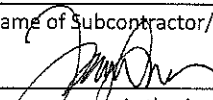
Print Name of Prime
By: 
Authorized Signature

Lance Littrell, P.E.
Print Name

Vice President
Title

Date: 12/09/2024

JLA Geosciences, Inc.

Print Name of Subcontractor/subconsultant
By: 
Authorized Signature

James L. Andersen
Print Name

President
Title

Date: 12/09/2024



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OEBO LETTER OF INTENT – SCHEDULE 2

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SOLICITATION/PROJECT NUMBER: 24-033
 SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: HBC Engineering Company
 (Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 5/24/22 - 5/23/25

The undersigned affirms they are the following (select one from each column if applicable):

Column 1	Column 2	Column 3
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input checked="" type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

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Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
	Structural Engineering				\$134,291.52

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$134,291.52

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A
 Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.
 Print Name of Prime
 By: *Lance R. Littrell*
 Authorized Signature
Lance Littrell, P.E.
 Print Name
Vice President
 Title
 Date: 1/14/2025

HBC Engineering Company
 Print Name of Subcontractor/subconsultant
 By: *Edgardo Diaz*
 Authorized Signature
Edgardo Diaz
 Print Name
Vice President
 Title
 Date: 1/14/2025



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OEBO LETTER OF INTENT – SCHEDULE 2

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SOLICITATION/PROJECT NUMBER: 24-033
 SOLICITATION/PROJECT NAME: Water Treatment Plant No. 2 Expansion

Prime Contractor: Kimley-Horn and Associates, Inc. Subcontractor: Hillers Electrical Engineering, Inc.
 (Check box(s) that apply)

SBE WBE MBE M/WBE Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/17/24 - 10/16/27

The undersigned affirms they are the following (select one from each column if applicable):

<u>Column 1</u>	<u>Column 2</u>	<u>Column 3</u>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input checked="" type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

S/M/WBE PARTICIPATION – S/M/WBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
	Electrical Engineering				\$114,206.04

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$114,206.04

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: N/A
 Name of 2nd/3rd tier Subcontractor/subconsultant

Kimley-Horn and Associates, Inc.
 Print Name of Prime
 By: *Lance R. Littrell*
 Authorized Signature
Lance Littrell, P.E.
 Print Name
Vice President
 Title
 Date: 1/6/2025

Hillers Electrical Engineering, Inc.
 Print Name of Subcontractor/subconsultant
 By: *P Hillers*
 Authorized Signature
Paul Hillers, P.E.
 Print Name
President
 Title
 Date: 1/6/2025



If you have experienced or witnessed a violation of the EBO Ordinance or would like to file a complaint, please scan the QR Code

ATTACHMENT D

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice to Proceed and authorized CSA). CONSULTANT's schedule is contingent upon a two (2) week review timeframe by PBCWUD. If comments are not received within a two (2) week review period of CONSULTANT submittal, schedule shall be extended accordingly.

Engineering Services

Completion Date from Notice to Proceed

(Calendar Days)

<i>Task 1: Basis of Design Report</i>	<i>150</i>
<i>Task 2: Hydraulic Modeling</i>	<i>120</i>
<i>Task 3: Funding Support</i>	<i>150</i>
<i>Task 4: Project Meetings, Management, and Administration</i>	<i>365</i>
<i>Task 5: Pilot Testing and Reporting</i>	<i>365 (includes 2 months for pilot unit updates, Installation and startup)</i>

Revised 06-12-24

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated: October 22, 2024
 Consultant Services Authorization No.: 1
 Consultant: Kimley-Horn and Associates, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

Task Number	Task Description	Kimley-Horn and Associates, Inc.	Anfield Consulting Group, Inc.	CHA Consulting, Inc.	C Solutions, Inc.	Colomé & Associates, Inc.	JLA Geosciences, Inc., Inc.	HBC Engineering Company	Hillers Electrical Engineering, Inc.	TOTAL
	OEBO APPROVED AWARDED CATEGORY				S/MBE	S/WBE	SBE	S/MBE	S/MBE	
TASK 1	BASIS OF DESIGN REPORT	\$320,059.86		\$26,165.92		\$260,319.07	\$42,562.00	\$133,691.52	\$84,916.00	
TASK 2	HYDRAULIC MODELING	\$48,713.28								
TASK 3	FUNDING SUPPORT	\$94,354.80	\$35,696.70		\$155,430.00					
TASK 4	PROJECT MEETINGS, MANAGEMENT AND ADMINISTRATION	\$206,497.08							\$24,009.70	
TASK 5	PILOT TESTING AND REPORTING	\$432,985.50							\$5,280.34	
	Subtotal	\$1,102,610.52	\$35,696.70	\$26,165.92	\$155,430.00	\$260,319.07	\$42,562.00	\$133,691.52	\$114,206.04	\$1,870,681.77
	EXPENSES	\$0.00				\$296.00		\$600.00		\$ 896.00
	TOTAL PROJECT	\$1,102,610.52	\$35,696.70	\$26,165.92	\$155,430.00	\$260,615.07	\$42,562.00	\$134,291.52	\$114,206.04	\$1,871,577.77

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No.: 1
 Consultant: Kimley-Horn and Associates, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

BUDGET SUMMARY FOR FIRM

Task Number	Task Description	Principal	Sr. Professional II	Sr. Professional I	Professional	Sr. Support	Sr. Technical Support	Support	Analyst II	Analyst I	Total Hours	PRIME TOTALS		
												Total Labor	Total Expenses	Total Labor and Expenses
	2024 Raw Rate >	\$ 118.86	\$ 99.62	\$ 95.68	\$ 64.62	\$ 38.56	\$ 73.28	\$ 28.80	\$ 53.56	\$ 41.16				
	Multiplier >	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00				
	Bill Rate >	\$ 356.58	\$ 298.86	\$ 287.04	\$ 193.86	\$ 115.68	\$ 219.84	\$ 86.40	\$ 160.68	\$ 123.48				
TASK 1	BASIS OF DESIGN REPORT													
	Review report, by others	4	6		18				20				\$ 9,922.56	\$ 9,922.56
	Tour up to 1 other Water Treatment Plant		6		6		6						\$ 4,275.36	\$ 4,275.36
	WTP No. 2 Site Visits (x3)		6		8		8		12	12			\$ 6,512.68	\$ 6,512.68
	Material and Equipment Vendor Coordination	1	5		15		8	1	20	20			\$ 12,287.10	\$ 12,287.10
	Evaluate Raw Water	1	2	3	6		8	1	10	10			\$ 7,665.30	\$ 7,665.30
	Evaluate raw water Consumptive Use Permit (CUP)	1	2	3	6		8	1	10	10			\$ 7,665.30	\$ 7,665.30
	Evaluate Pretreatment	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Evaluate Membrane Feed Pumps	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Evaluate Process Trains	1	2	3	6		8	1	10	10			\$ 7,665.30	\$ 7,665.30
	Evaluate Concentrate Booster	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Evaluate Post Treatment	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Evaluate Clearwell	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Evaluate Storage	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Evaluate HSP	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Evaluate Chemicals	1	2	3	6		8	1	15	30			\$ 10,938.30	\$ 10,938.30
	Evaluate membrane clean-in-place (CIP)	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Evaluate Permeate Flush	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Electrical and Standby Power	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	Supervisory Control And Data Acquisition (SCADA)	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Buildings	1	2	3	6		8	1	10	20			\$ 8,900.10	\$ 8,900.10
	WTP Blend Ratios	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Site Plans (x2)	1	2	3	6		40	1	20	40			\$ 20,011.38	\$ 20,011.38
	Evaluate Blend Ratios	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Evaluate Construction Sequencing	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Identify Anticipated Permits	1	2	3	6		8	1	5	10			\$ 6,861.90	\$ 6,861.90
	Include up to one (1) pre-application meeting per agency (6 total)		12		18				18	36			\$ 14,413.32	\$ 14,413.32
	Opinion of Probable Construction Cost (OPCC) Development	3	6	16	24		8	25	40	80			\$ 32,332.50	\$ 32,332.50
	Develop draft Basis of Design Report (BODR)	4	10	20	60	8	8	25	50	60			\$ 42,074.28	\$ 42,074.28
	Develop Final Basis of Design Report (BODR)	2	6	10	10	40	8	1	20	40			\$ 18,238.68	\$ 18,238.68
	Task 1 - Subtotal	35	99	109	285	16	246	73	360	578	1801		\$ 320,059.86	\$ 320,059.86
TASK 2	HYDRAULIC MODELING													
	Raw Water Hydraulic Modeling	1	2	4	8		12		20	30			\$ 13,209.42	\$ 13,209.42
	HSP Hydraulic Modeling	1	2	4	8		12		20	30			\$ 13,209.42	\$ 13,209.42
	Raw Water Tech Memo	1	8	2	16		12		10	15			\$ 12,520.38	\$ 12,520.38
	HSP Tech Memo	1	4	2	8		12		10	15			\$ 9,774.06	\$ 9,774.06
	Task 2 - Subtotal	4	16	12	40	0	48	0	60	90	270		\$ 48,713.28	\$ 48,713.28
TASK 3	FUNDING SUPPORT													
	Identify funding alternatives	1	6	44	12		6	2	4	6			\$ 19,981.26	\$ 19,981.26
	Consult and Provide Strategic Advice	1	6	16	12		6	2	4	6			\$ 11,944.14	\$ 11,944.14
	Existing Funding Support	4	4	100	4		6	2	4	6			\$ 34,976.64	\$ 34,976.64
	Funding Memorandum Draft	1	6	25	12	3	6	2	4	6			\$ 15,161.58	\$ 15,161.58
	Final Funding Memorandum	1	6	16	12	3	6	2	4	6			\$ 12,291.18	\$ 12,291.18
	Task 3 - Subtotal	8	28	202	52	6	30	10	20	30	386		\$ 94,354.80	\$ 94,354.80
TASK 4	PROJECT MEETINGS, MANAGEMENT AND ADMINISTRATION													
	Meetings (x12)		24		48		24		24				\$ 25,610.40	\$ 25,610.40
	Meeting Miss (x12)		8		24		48		24				\$ 21,452.16	\$ 21,452.16
	Virtual Meeting (x20)		10		10		10		10				\$ 8,732.40	\$ 8,732.40
	Virtual Miss (x20)		20		20		40		20				\$ 21,861.60	\$ 21,861.60
	Schedule		12				32						\$ 10,621.20	\$ 10,621.20
	Invoicing		6		12		144	96					\$ 44,070.84	\$ 44,070.84
	Coordination of Subs		20		20		48						\$ 20,406.72	\$ 20,406.72
	PMP		12		12		32	20					\$ 14,675.52	\$ 14,675.52
	QA/QC	24	60										\$ 26,489.52	\$ 26,489.52
	Monthly Progress Report (x5)		6				20	10					\$ 7,053.96	\$ 7,053.96
	Monthly Schedule (x5)		6				15	5					\$ 5,522.76	\$ 5,522.76
	Task 4 - Subtotal	24	184	0	146	0	413	131	78	0	976		\$ 206,497.68	\$ 206,497.68
TASK 5	PILOT TESTING AND REPORTING													
	Subtask 5.1 Pilot Testing Protocol and Membrane Selection Criteria													
	Coordination with WUD/WUD Contractor	1	6	12	8	12							\$ 8,533.26	\$ 8,533.26
	Four (4) RAs	1	4	4		12							\$ 4,088.34	\$ 4,088.34
	Pilot Testing Protocol and Membrane Selection Criteria	1	6	12	8		8						\$ 8,903.82	\$ 8,903.82

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No.: f
 Consultant: Kimley-Horn and Associates, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

BUDGET SUMMARY FOR FIRM

Task Number	Task Description	Principal	Sr. Professional II	Sr. Professional I	Professional	Sr. Support	Sr. Technical Support	Support	Analyst II	Analyst I	PRIME TOTALS			
											Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	2024 Raw Rate >	\$ 118.86	\$ 99.62	\$ 95.68	\$ 64.62	\$ 38.56	\$ 73.28	\$ 28.80	\$ 53.56	\$ 41.16				
	Multiplier >	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00				
	Bill Rate >	\$ 356.58	\$ 298.86	\$ 287.04	\$ 193.86	\$ 115.68	\$ 219.84	\$ 86.40	\$ 160.68	\$ 123.48				
	Draft Pilot Test Protocol	1	6	16	12	6	20	2	6	8			\$ 16,284.30	\$ 16,284.30
	Final Pilot Test Protocol	1	4	8	10	6	12	2	6	8			\$ 11,243.82	\$ 11,243.82
	Membrane Selection Criteria	1	6	12	14	18	8		4	2			\$ 13,038.90	\$ 13,038.90
	Subtask 5.2 Pilot Unit Membrane Testing													
	Loading Instructions	1	4		8		4						\$ 3,982.26	\$ 3,982.26
	Test Spreadsheet - Weekly updates x 16 assumed	1	16	20			16		24	24			\$ 21,216.42	\$ 21,216.42
	Autopsy Protocol	1	4	12	10		6		4				\$ 8,896.86	\$ 8,896.86
	Water Quality Sampling Coordination	1	2	8	8		18						\$ 8,758.62	\$ 8,758.62
	Evaluate and Summarize Water Quality Data in Excel Sheet	1	2	40	32	2	24	2	80	100			\$ 49,522.14	\$ 49,522.14
	Site Visits - up to fourteen (14)	2	8	42	42	14	21	2	40	60			\$ 43,546.80	\$ 43,546.80
	Subtask 5.3 PFAS Pilot Testing Protocol and Pilot Testing													
	Desktop Analysis and Pilot Testing Protocol	4	10	12	8		4		6	6			\$ 11,994.60	\$ 11,994.60
	Pilot Testing Coordination	1	4	6	18		16		4	4			\$ 11,417.82	\$ 11,417.82
	Evaluate and Summarize Water Quality Data in Excel Sheet	1	8	20	24		12		80	100			\$ 40,981.38	\$ 40,981.38
	Site Visits - up to sixteen (16)	1	20	32	64		16		60	120			\$ 55,901.94	\$ 55,901.94
	Subtask 5.4 Prepare Report													
	Draft Pilot Test Report (x2)	3	24	36	60		12		108	126			\$ 65,757.42	\$ 65,757.42
	Final Pilot Test Report (x2)	3	12	18	36		18		45	54			\$ 34,657.38	\$ 34,657.38
	Draft and Final Review Meetings - Up to one (1) each	3	6	12	6		12		12	18			\$ 14,259.42	\$ 14,259.42
	Task 5 - Subtotal	29	152	322	368	70	227	8	479	630	2285		\$ 432,985.50	\$ 432,985.50
	Total	100	479	645	891	92	964	222	997	1,328	5,718		\$ 1,102,610.52	\$ 1,102,610.52
	Labor Subtotal Hours	100	479	645	891	92	964	222	997	1,328	5,718			
	Labor Raw Costs	\$ 11,886.00	\$ 47,717.98	\$ 61,713.60	\$ 57,576.42	\$ 3,547.52	\$ 70,641.92	\$ 6,393.60	\$ 53,399.32	\$ 54,660.48			\$ 367,536.84	
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 35,658.00	\$ 143,153.94	\$ 185,140.80	\$ 172,729.26	\$ 10,642.56	\$ 211,925.76	\$ 19,180.80	\$ 160,197.96	\$ 163,981.44			\$ 1,102,610.52	
	PROJECT TOTAL										5,718		\$ 1,102,610.52	\$ 1,102,610.52

Anfield [CONSULTING]

Date: January 7, 2025

RE: CSA #1 Scope of Services

PBCWUD - WTP No. 2

TASK 3 – Funding Support

The CONSULTANT will provide funding and regulatory leadership support throughout the design phase of the project. This effort will be supportive of identifying additional funding for the design, construction, and public outreach phases of the project. This section will apply to the design portion of the project and include a forward looking effort to position and support for funding efforts toward the construction phase of the project.

- **Support for the County’s existing SRF funding (Consultant Team and Subconsultants) – WUD** is currently executing SRF funding documents to support the design phase of the project which is expected to be approximately \$9.5 to \$10 million. Consultant’s efforts can support closing of that application and execution of the funding contract. Additionally, these efforts can be utilized for administration and documentation support for the SRF funding audits and inspections.

- **Construction Funding Identification and Application Support** – This project will include a significant capital outlay to execute the vision of the project and phased approach to achieving 30 MGD of water production at this facility. It is anticipated that SRF funding will be available for the construction phase of the project and CONSULTANT will identify a plan to apply for construction funding based on the design and bidding completion schedule for the project. CONSULTANT will coordinate with SRF leadership and assist County application process to obtain SRF construction funding.

Additional funding avenues will be identified for construction funding and presented to the County staff for consideration. Provided the additional funding outlets are deemed appropriate, CONSULTANT will pursue additional funding opportunities to further support the construction phase.

CONSULTANT will provide strategic advice and consultation regarding climate resilience and water resource management programs in Florida, with specific emphasis on identifying opportunities to solicit and receive funding support from the state and applicable entities.

CONSULTANT will support all state grant applications including programmatic natural and water resource applications related to funding of the design or construction phase.

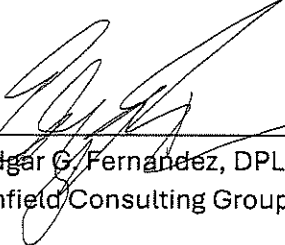
CONSULTANT will assist requests and provide updates on grants, appropriations processes, and list potential successes and offer additional language to strengthen requests for funding, support stakeholder coordination between the County and funding agencies,

Anfield [CONSULTING]

Compensation:

1. The hourly rates provided in Attachment E Fee Breakdown shall be in effect from NTP.
2. Professional Services provided by Consultant personnel in various projects are listed in the Attachment E Fee Breakdown, in the amount of \$35,696.70.
3. Fees and other compensation will be computed in accordance with one or a combination of methods outlined in the Agreement and a specified in a written task authorization.
4. Fee as a Multiple of Direct Salary Cost and Fixed Hourly Rate task orders will be based on salary raw rates shown above and applicable multiplier per Agreement.
5. Personnel assignments may vary subject to the scope and requirements associated with future task orders.

Sincerely,



Edgar C. Fernandez, DPL Partner
Anfield Consulting Group, Inc.

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department							
Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion							
Resolution No. R2024-1424 Contract Dated 10/22/2024							
Consultant Services Authorization No.: 1							
SubConsultant: Anfield Consulting Group, Inc.							
Project Title: Water Treatment Plant No. 2 Expansion							
PBCWUD Project No.: 24-033							
BUDGET SUMMARY FOR FIRM							
						PRIME TOTALS	
Task Number	Task Description	Partner (Senior Project Manager)	Partner (Regulatory, Legislative & Funding)	Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE frm MASTER EXHIBIT C UPDATE	\$ 100.00	\$ 100.00				
	2024 Raw Rate >	\$ 84.13	\$ 72.12				
	Multiplier >	3.00	3.00				
	Bill Rate >	\$ 252.39	\$ 216.36	150			
TASK 3	Funding Support						
	Funding Support	90	60	150	\$ 35,696.70	\$ -	\$ 35,696.70
					\$ -		\$ -
					\$ -		\$ -
	Task 3 - Subtotal	90	60	150	\$ 35,696.70	\$ -	\$ 35,696.70
	Labor Subtotal Hours	90	60	150			
	Labor Raw Costs	\$ 7,571.70	\$ 4,327.20		\$ 11,898.90		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 22,715.10	\$ 12,981.60		\$ 35,696.70		
	PROJECT TOTAL			150	\$ 35,696.70		\$ 35,696.70

**CONSULTANT SERVICES AUTHORIZATION NO. 1
SCOPE OF SERVICES
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
WATER TREATMENT PLANT NO. 2 EXPANSION**

INTRODUCTION

The PBC WTP No. 2 NF project proposes to provide both improvements to existing facilities, as well as additional facilities in order to improve the operation, efficiency, and capacity of the plant.

CHA Consulting, Inc. (CHA) will provide professional engineering consulting services to Kimley-Horn & Associates, Inc (KHA) for the mechanical design support of the new buildings, including HVAC, mechanical plumbing, fire protection, and electrical, as well as support for the design of the proposed chemical feed systems that will be implemented in the project.

CHA's design scope of work includes mechanical, electrical and plumbing design for the following:

- A. Under Task 1
 - a. Approx 26,000 SF process (ventilation, plumbing, fire protection) and administrative building (HVAC, plumbing, fire protection, and ventilation for bathrooms, locker rooms, offices, kitchen, etc.)
 - i. Process building will need laboratory, control room, restrooms/lockers, IT room to house server equipment, offices, meeting room, break/lunchroom
 - b. Approx. 7,000 SF building for clearwell (HVAC, plumbing, and fire protection)
 - c. Approx. 8,000 SF building for high service pump station (HVAC, plumbing, fire protection, and ventilation for bathrooms, locker rooms, offices, kitchen, etc.)
 - i. High Service building will need restroom/lockers, IT room to house server equipment, office, electrical room.
 - d. Approx. 1,500 SF building for chemical systems (ventilation, fire protection, and chemical scrubber systems)
 - i. This includes additional support for the design of the chemical feed systems which may include scale inhibitor, sulfuric acid, corrosion inhibitor, sodium hydroxide, anhydrous ammonia, etc. "as needed" by KHA

The tasks associated with the engineering design of the above improvements are presented below.

ARTICLE 1 – SCOPE OF SERVICES

Task 1 – Water Treatment Plant Basis of Design Report

D1 – Data Gathering and Preliminary Coordination/Information

This task focuses on obtaining the necessary preliminary information required to prepare detailed engineering plans and specifications.

- A. Meet with KHA project staff to discuss and confirm project requirements and design criteria.
- B. Visit the site and review pertinent features that may impact design and/or construction. This will include field review, coordination, and confirmation of the location of the buildings, utilities, etc.
- C. Collect data available for existing facilities, including field conditions, existing facility record drawings, existing easements, right-of-way information and connection locations.
- D. Coordinate scope and coordination with other subconsultants.

D2 – Basis of Design Report (BODR)

This task shall consist of preparation of a Basis of Design Report (BODR) that will act as the basis of design for the MEP and chemical feed systems. The BODR will include the following:

- A. Summary of project goals and objectives
- B. General design criteria defining all design criteria elements for the HVAC systems of each building according to their proposed occupancy classification and the proposed chemical feed systems
- C. Preliminary design of HVAC, plumbing, fire protection, and chemical feed system, layout, configurations for the proposed buildings
- D. Preliminary calculations
- E. Major equipment sizing and cut sheets
- F. Preliminary Opinion of Probable cost

D3 – Submit and Review (Quality Control)

CHA will make the following submittals at various completion levels of this project for the purpose of KHA's and PBC's review and comment for coordination and quality control. A review meeting will be requested following each submittal to discuss and receive comments. KHA's and PBC's comments shall be incorporated into revisions prior to the next subsequent quality control submittal. Quality control submittals for this project are anticipated at the following completion levels:

1. Draft Basis of Design Report
2. Final Basis of Design Report

CHA will incorporate the agreed-upon revisions made by KHA and PBC.

Task 4 – Water Treatment Plant Basis of Design Report

D1 – Project Administration/Management

This task focuses on the administration of the project including project setup, client interface, subconsultant management, general project management, contract administration, invoicing, status reports, schedules, and coordination with KHA.

ARTICLE 2 – DATA OR ASSISTANCE TO BE PROVIDED BY KHA/PBC

- A. Provide copies of existing record drawings for all facilities impacted in the project areas.
- B. Assist with field verification of existing underground utilities as requested.
- C. Bidding coordination, distribution of bid documents and bid submission evaluation.

ARTICLE 3 – TIME OF COMPLETION

CHA can begin work upon receipt of a Purchase Order and Notice to Proceed, and will commit the resources necessary to complete the project in accordance with KHA's approved project schedule.

KHA understands that conformance to their approved project schedule is dependent upon prompt review and response of questions and comments.

ARTICLE 4 – PROJECT DELIVERABLES

Project deliverables shall be in accordance with Attachment 1.

ARTICLE 5 – PAYMENT AND COMPENSATION

As consideration for providing the services enumerated in Article 1, KHA shall pay CHA fees as described below:

- A. Design Phase
 - a. For the services enumerated in Article 1, the estimated not-to-exceed fee of **\$26,165.92**


These fees have been determined in accordance with the scope of work breakdown included in Attachment 2.

Billing shall be performed monthly at the hourly rate x a 2.9 multiplier. Should the work required exceed the fee, adjustments may be made as agreed upon by both parties.

ARTICLE 6 – AUTHORIZATION

IN WITNESS WHEREOF, the parties hereto have accepted, made, and executed this Task Order upon the terms and conditions stated herein, effective as of the date of the last signature shown below. All other provisions of the referenced Agreement shall remain in effect unless subsequently changed in writing and signed by both parties.

CHA Consulting, Inc.

By: 
Name: Douglas K. Hammann, P.E
Date: 12-9-2024

ATTACHMENT 1

LIST OF PROJECT DELIVERABLES

BODR PHASE

A. Task 1 – Water Treatment Plant Basis Of Design Report

- a. One (1) Draft Basis of Design Report, complete (electronic submittal).
- b. One (1) Final Basis of Design Report, complete (electronic submittal).

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No. 1
 Sub Consultant: CHA Consulting, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PCWUD Project No.: 24-033

BUDGET SUMMARY FOR FIRM

Task Number	Task Description	Raw Rate RANGE frm MASTER EXHIBIT C/P/D/AE	2024 Raw Rate >	Multiplier >	BN Rate >	Water Treatment Plant Basis of Design Report	D1	D2	D3	Task 1 - Subtotal	Task 4 - Subtotal	Labor Subtotal Hours	Labor Raw Costs	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	PROJECT TOTAL
		\$90-\$100	\$ 100.00	2.90	\$ 290.00					2	4	6	\$ 600.00	\$ 1,740.00	
	Principal	\$80-\$100	\$ 85.00	2.90	\$ 246.50					14	12	26	\$ 2,210.00	\$ 3,410.40	
	Senior Project Manager	\$60-\$90	\$ 65.00	2.90	\$ 188.50					14	0	24	\$ 1,560.00	\$ 4,524.00	
	Senior Principal Engineer	\$45-\$60	\$ 48.00	2.90	\$ 139.20					8	0	56	\$ 2,688.00	\$ 7,795.20	
	Senior Engineer	\$25-\$30	\$ 26.46	2.90	\$ 76.72					8	6	8	\$ 189.73	\$ 460.32	
	Administrative	\$35-\$45	\$ 35.00	2.90	\$ 101.50					18	0	18	\$ 630.00	\$ 1,827.00	
	Engineering Designer									128	22	150			\$ 26,165.92
	Total														
	Total Labor														
	Expenses														
	PRIME TOTALS														

Exhibit A
Kimley Horn
Scope of Services – CSA No. 1
Palm Beach County Water Utilities Department
Water Treatment Plant No. 2 Expansion

I. BACKGROUND

This Consultant Services Authorization (CSA) encompasses providing services for Palm Beach County Water Utilities Department (WUD) related to the Water Treatment Plant No. 2 (WTP 2) Expansion. The United States Environmental Protection Agency (USEPA) provided Public Water Systems (PWS) deadline of April 1, 2029 to be compliant with Per- and Polyfluoroalkyl Substances (PFAS) Maximum Contaminant Levels (MCLs). Finished water from WTP 2 currently exceeds those MCLs and WUD is going to construct improvements to reduce concentrations below the MCL. This CSA encompasses the Basis of Design Report (BODR) for the improvements to be constructed.

WUD owns and operates four WTPs within their eastern service area. Two of the WTPs, WTP 2 and WTP 8, utilize conventional lime softening and ion exchange that do not currently remove PFAS constituents from the raw water stream. WTP 2 is a 16.4 million gallons per day (MGD) rated capacity facility that pulls raw water from sixteen (16) existing Surficial Aquifer System (SAS) wells. The wellfield has a 22.6 MGD Consumptive Use Permit (CUP) allocation from the South Florida Water Management District (SFWMD), based on average daily flow.

WUD has retained the services of a separate Consultant to provide recommendations with respect to recommended capacity at WTP 2 to be PFAS compliant. Based on the recommendations provided by the separate Consultant, PBCWUD has decided to proceed forward with improvements at WTP 2 to include construction of a 30 MGD of treatment capacity to help offset other PFAS treatment in PBCWUD's eastern service area. The treatment technology to be employed at WTP 2 will be nanofiltration. The Deep Injection Well (DIW) being constructed on-site provides disposal capacity of up to 9.66 MGD, which is ample for concentrate disposal for up to 48-MGD of nanofiltration treatment capacity. This CSA consists of the development of the Basis of Design Report (BODR) for the proposed improvements at WTP 2. As described in Consultant Services Authorization (CSA) #1, Kimley-Horn (CONSULTANT) will provide engineering services for the WTP 2 BODR.

C Solutions, Inc. (SUBCONSULTANT) will provide engineering services to support the CONSULTANT with portions of this CSA and the BODR. SUBCONSULTANT will provide the services as defined below.

II. SCOPE OF SERVICES

The SUBCONSULTANT will assist the CONSULTANT in the hydraulic evaluations of the WTP 2 wellfield and high service pump stations.

Task 2.0 – Hydraulic Modeling

As part of the BODR, CONSULTANT shall prepare an evaluation of the existing Surficial Aquifer wellfield systems at WTP 2, and the impact on the eastern water distribution system caused by WTP 2's expanded treated capacity of 30 MGD. In addition, CONSULTANT will evaluate feasibility of construction of a raw water booster pump station for WTP No. 2 wells, in lieu of improvements to entire wellfield. The

SUBCONSULTANT will perform the hydraulic modeling evaluation of the WTP No. 2 well pumps. This evaluation will review proposed changes to well pump size and total dynamic head (TDH) for improvements to the existing wellfield. In addition, SUBCONSULTANT will perform the hydraulic modeling evaluation for a raw water booster pump station for WTP 2. This effort will utilize PBCWUD's existing model and does not include structural updates, calibrations, or other changes to the model. If existing model provided by PBCWUD is found to be not functional or in need of updates a separate task order will be needed.

SUBCONSULTANT will perform the hydraulic modeling of the PBCWUD distribution system for the proposed high service pump station at WTP No. 2. The purpose of this evaluation is to identify the impacts on the existing distribution system due to the planned increased pumping capacity at WTP 2 from 16.5 MGD to 30 MGD, while providing basis of design for a new high service pump station at WTP 2 due to the increased capacity. This effort will utilize PBCWUD's existing model and does not include structural updates, calibrations, or other changes to the model.

The CONSULTANT will prepare a draft version of the Basis of Design Report for review and comment by WUD stakeholders. One review meeting will be completed to collect and discuss comments from the WUD staff and identify a collaborative path forward for the final document. CONSULTANT will prepare a final version of the Basis of Design Report to incorporate review comments by WUD stakeholders.

As part of the BODR, CONSULTANT shall prepare an evaluation of the existing Surficial Aquifer wellfield systems at WTP 2, feasibility of construction of a raw water booster pump station for WTP No. 2 wells, in lieu of improvements to entire wellfield, and the impact on the water distribution system caused by WTP 2 expanded treated capacity of 30 MGD.

WTP 2 Wellfield Hydraulic Modeling

SUBCONSULTANT will utilize PBCWUD's existing hydraulic model for WTP 2 existing wellfield. The purpose of this model is to simulate the existing wellfield conditions and operations at WTP 2, while providing minimum and maximum design pressure information at proposed wellhead locations for up to four (4) new wells. If more than four (4) proposed new wells are to be modeled a separate task order will be needed. The Hydraulic model will be updated using the latest version of InfoWater Pro. The wellfield model will include existing wells (modeled as reservoirs), proposed wells (modeled as forced flows), well pumps, and raw water transmission mains up to discharge location (softener or sand strainer, etc.). Hydraulic model will be updated under an extended period simulation (EPS).

Data Collection and Review:

SUBCONSULTANT shall request from CONSULTANT and shall review existing wellfield hydraulic model, production well data including construction records/well registration forms, well pumping data/groundwater measurements, drawdown information/elevations, static groundwater level, well pump curves and design conditions, raw water main as-builts and/or GIS layers, elevations, all SCADA data available associated with the wellfield and transmission from the wellfield, minimum and maximum flows for proposed new wells.

Scenario Management:

Scenarios will be created to simulate low flow conditions and high flow conditions. Two additional scenarios will be created to evaluate the proposed new wells, one scenario will simulate low flow range with one well on and another scenario will simulate high flow range with all four wells on. The four new well locations will be simulated with a constant forced inflow node (negative demand) as provided by the

CONSULTANT. Each scenario can be modeled using up to three different pumping levels. Different pumping levels will be provided by CONSULTANT.

The following will be determined for the modeled scenarios specified above:

1. Determine the flow (MGD) supplied by each existing well
2. Determine the total flow (MGD) to the existing softener
3. Determine pipe velocity and pipe headloss within the raw water system
4. Determine minimum and maximum pressures at wellheads for up to four new proposed new wells

WTP 2 Raw Water Booster PS Hydraulic Modeling

SUBCONSULTANT will develop a hydraulic model to simulate sending raw water from WTP 2 wellfield to WTP 2 with the addition of a proposed inline booster pump station (PS) to add necessary pressures required to feed the sand filters at the head of a new membrane WTP. The model will be used as a basis for analyzing feasibility of an inline booster PS as opposed to the upsizing of wellfield pumps. Results of the evaluations will be provided to CONSULTANT to perform feasibility analysis and present options to PBCWUD. The model will include WTP 2 wellfield model (updated as described above) plus reservoirs representing suction head of the inline booster as well as discharge to the sand filters.

The hydraulic model will simulate pumping raw water from WTP 2 wellfield to WTP 2 new sand filters. SUBCONSULTANT will first utilize the model to determine the flows and pressures coming into the proposed inline booster station (simulated as a reservoir) under different flow conditions at WTP 2 wellfield. This analysis will be performed under an EPS simulation for minimum, average and maximum flow conditions at WTP 2 wellfield.

The following will be determined for the modeled scenarios specified above:

1. Determine range of flows and pressures coming from WTP 2 wellfield to the suction side of the inline booster station (represented by a reservoir set at the determined operational suction setpoint pressure for the proposed inline booster pump station)

After this portion of the model has been completed the SUBCONSULTANT will then utilize the determined design inflows to the suction side of the inline booster PS to develop the design criteria for the inline booster PS. The determined range of flows to be pumped to WTP 2 will be utilized to force flows into a demand node located at the site of the proposed inline booster station to determine discharge pressures at the discharge side of the inline booster PS for the determined raw water main pipeline size. The hydraulic model will simulate the inline booster PS discharging to up to three different head elevations at WTP 2 provided by CONSULTANT. The connection point at WTP 2 will be simulated as a reservoir with an elevation to simulate the connection pressure as provided by the CONSULTANT.

The following will be determined from the above stated modeling efforts:

1. Determine raw water main pipe size from the inline booster PS to the sand filters at WTP 2
2. Determine pipe velocities and headloss through raw water main for anticipated transferred flows
3. Define preliminary pump station design conditions for inline booster station

The SUBCONSULTANT will attend a review meeting with WUD's staff to review model assumptions, model inputs, and model results. Meeting agenda and meeting minutes will be prepared by SUBCONSULTANT.

WTP 2 Existing Water Distribution System Impact Evaluation

SUBCONSULTANT will utilize WUD's latest water distribution hydraulic model to perform this evaluation. SUBCONSULTANT assumes that the existing water model has previously undergone quality assurance and quality control and has been accepted as a final product by WUD. SUBCONSULTANT will receive a complete calibrated model that is functional in order to perform this evaluation. SUBCONSULTANT assumes the model does not need updates, calibration, or troubleshooting to make it run and that input variables are correct. The purpose of this evaluation is to identify the impacts on the existing distribution system due to the planned increased pumping capacity at WTP 2 from 16.5 MGD to 30 MGD, while providing basis of design for a new high service pump station at WTP 2 due to the increased capacity. This evaluation will be performed under average day, maximum day, and peak hour demand conditions for existing and future demand conditions. It is understood existing demand conditions are represented in the model under the 2020 scenario and future demand conditions are represented in the model under the 2035 scenario. This evaluation will be modeled as a fixed head reservoir at WTP 2 supplying up to two different flows (MGD) at an assumed discharge pressure of 70 psi. Discharge flows from WTP 2 will be provided by CONSULTANT. This will be modeled as a fixed head reservoir because specific operating characteristics of the new high service pumps required for the increased pumping capacity are not yet known for this preliminary design study and this will serve for the purpose of analyzing the impact on the existing distribution system due to increased capacity. SUBCONSULTANT will assume model controls for other model components will remain the same. The following scenarios will be modeled under this scope of services:

1. WTP 2 Pumping an average flow and a maximum flow provided by CONSULTANT at a fixed discharge pressure of 70 psi
 - 2020 Demand Conditions (average day, maximum day and peak hour demand)
 - 2035 Peak Hour Demand Conditions (average day, maximum day and peak hour demand)

The following will be determined for the modeled scenarios specified above:

1. Determine the flow (MGD) supplied by each WTP during peak hour conditions both in existing and future conditions
2. Identify impacts on the existing water distribution during peak hour conditions both in existing and future conditions due to increased capacity of WTP 2. These results will identify water mains that exceed design criteria (pressure, velocity, headloss)
3. Determine hourly flows coming out of WTP 2 during average day and maximum day demand conditions

After this portion of the model has been completed and hourly minimum and maximum flows from WTP 2 have been obtained, a system curve can be developed to select pump curves for the new high service pump at WTP 2 to accommodate the increased capacity.

The SUBCONSULTANT will attend a review meeting with WUD's staff to review model assumptions, model inputs, and model results. Meeting agenda and meeting minutes will be prepared by SUBCONSULTANT.

Technical Memorandum

The SUBCONSULTANT will summarize the findings of the above hydraulic evaluations in a Technical Memorandum. The Technical Memorandum will detail the hydraulic evaluation methodology and its findings and results. An electronic copy (Adobe Acrobat and MS Word file format) of the Technical

Memorandum will be provided to the CONSULTANT to be incorporated into CONSULTANT's BODR for distribution to WUD.

Deliverables:

- Draft Technical Memorandum for Hydraulic Modeling performed
- Final Technical Memorandum for Hydraulic Modeling performed
- Hydraulic Modeling Files

III. ASSUMPTIONS

- SUBCONSULTANT will rely upon the accuracy of the data and information supplied by WUD or CONSULTANT without field confirmation.
- SUBCONSULTANT assumes the existing models has been checked for quality assurance and quality control (QA/QC) and accepted as a final product by WUD. No updates to the existing model (e.g., modification of demand data, changes to the existing network configuration) will be made as part of this Scope of Services.
- SUBCONSULTANT assumes that no additional scenarios will be included under this scope of services besides the ones specifically stated in this scope of services.
- CONSULTANT will provide SUBCONSULTANT with elevations of modeled reservoirs representing all connection points to WTP 2 as well as all requested well pump information.
- The existing hydraulic model and all requested data to update raw water wellfield hydraulic model will be provided to the SUBCONSULTANT at or prior to NTP. The SUBCONSULTANT will develop a list requesting all information and provide to CONSULTANT at least one month prior to NTP.
- Hydraulic modeling will be performed in InfoWater Pro using ArcGIS Pro. All existing modeling and GIS information shall be provided in these formats.
- CONSULTANT is responsible for performing feasibility studies with results provided by SUBCONSULTANT.
- All design assistance performed herein is limited to mechanical process design or piping design.

IV. TIME OF COMPLETION

The Notice to Proceed (NTP) will be provided by the CONSULTANT and defines the official commencement of the SUBCONSULTANT's contract for this task authorization. It is assumed that all data required for the services provided herein will be received by SUBCONSULTANT at or prior to NTP. The services defined herein will be completed within 160 days from NTP.

V. PROPOSED COMPENSATION

The SUBCONSULTANT shall perform the services defined in this scope of work for the not to exceed fee as shown below. The budget summary is provided in Exhibit A-1 (attached).

Task Description	Amount
Task 2.0 – Hydraulic Modeling	\$155,430
SUBTOTAL	
	ODC's \$0.00
	TOTAL \$ 155,430

**EXHIBIT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization: _1
 Subconsultant: C Solutions, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 WUD Project No.: WUD 24-033

		BUDGET SUMMARY FOR C SOLUTIONS						LABOR TOTALS			
Task Number	Task Description	Project Director	Senior Technical Expert	Project Manager	Engineer III	Designer	Senior Support Staff	Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE	\$90 - \$100	\$75 - \$100	\$50 - \$80	\$43 - \$50	\$25 - \$55	\$26 - \$40				
	Raw Rate >	\$ 100.00	\$ 95.00	\$ 60.00	\$ 45.00	\$ 50.00	\$ 35.00				
	Multiplier >	3.0	3.0	3.0	3.0	3.0	3.0				
	Bill Rate >	\$ 300.00	\$ 285.00	\$ 180.00	\$ 135.00	\$ 150.00	\$ 105.00				
TASK 2	Task 2 - BODR - Hydraulic Modeling	100	140	400	60	18	26	744	\$ 155,430.00		\$ 155,430.00
								0	\$ -		\$ -
								0	\$ -	\$ -	\$ -
	Task 1 - Subtotal	100	140	400	60	18	26	744	\$ 155,430.00	\$ -	\$ 155,430.00
	Total	100	140	400	60	18	26	744	\$ 155,430.00	\$ -	\$ 155,430.00
	Labor Subtotal Hours	100	140	400	60	18	26	744			
	Labor Raw Costs	\$ 10,000.00	\$ 13,300.00	\$ 24,000.00	\$ 2,700.00	\$ 900.00	\$ 910.00		\$ 51,810.00		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 30,000.00	\$ 39,900.00	\$ 72,000.00	\$ 8,100.00	\$ 2,700.00	\$ 2,730.00		\$ 155,430.00		
	PROJECT TOTAL							744	\$ 155,430.00	\$ -	\$ 155,430.00



Revised – January 13, 2025

Mr. Nick Black P.E.
Kimley-Horn and Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

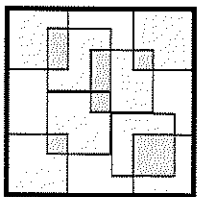
Re: **PBCWUD Water Treatment Plant 2 Expansion**
(Architectural Design, Programming, Conceptual Design Documents & BODR Document Phases)

Dear Mr. Black:

Our Firm – Colomé & Associates, Inc. (Architect) – would like to thank you for the opportunity to provide Kimley-Horn and Associates, Inc., with this proposal for architectural professional services for the proposed Process and Administration Building, Clear Well Building, Transfer Pump Station Building, High Service Pump Station Building and Generator Building to be located at the existing PBC WUD Water Treatment Plant 2 located at 2956 Pinehurst Drive, West Palm Beach, Florida.

The project will consist of architectural services for conceptual design and basis of design report (BODR) for the proposed 1-Story Process and Administration Building of approximately 26,000 square feet including laboratory, control room, and restrooms showers and lockers, IT room, breakroom / meeting room; 1-Story Clear Well Building of approximately 7,000 square feet, 1-Story Transfer Pump Station Building of approximately 5,000 square feet, 1-Story High Service Pump Building of approximately 8,000 square feet including restroom showers and lockers, IT room, office and electrical room; and a 1-Story Generator Building of approximately 1,500 square feet.

The architectural scope of services shall include the preparation of basis of design report (BODR), building programming, conceptual design services limited to building floor plan layouts and building elevations for each proposed building, documents for each project phase.



Colomé & Associates, Inc.

Florida Registration AA0003439

Architecture □ Planning □ Interiors

530 24th Street □ West Palm Beach, Florida 33407 □ Telephone: (561) 833-9147 □ Facsimile: (561) 833-9356 □ E-mail: colome@colome-arch.net



Fees WTP-2 Site

- Architectural Design Services WTP 2 Buildings: - BODR 30%, Building Programming and Conceptual Design Document Phases: Fees for performing services as outlined above shall be based upon the time and materials not to exceed sum of two hundred sixty thousand, three hundred nineteen dollars and seven (\$260,319.07) cents based on the hourly rate schedule.
- Expenses – The Architect and Design Professionals shall be paid for all expenses such as owner requested reproduction, mileage, postage and plotting expenses as an addition to the basic compensation as incurred of two hundred ninety-six (\$296.00) dollars. Based on the following (200 miles x .58 cents per mile =\$116.00 plus reproduction cost of (150) 24x36 x \$1.20 per sheet = \$180.00)
- Additional Services
 - Additional Services as requested by the Owner shall be on the Architectural and Engineering Hourly Basis as set forth in the executed Kimley-Horn and Associates, Inc., Contract for Architectural Service or stipulated lump sum.
 - Items excluded from this professional services fee proposal:

The following items are not included as part of this professional services fee proposal: This proposal does not include the documentation or analysis of green or sustainable building components or measures incorporated into this design. If the documentation or analysis (including life cycle analysis) of this building is required to meet Florida Statutes 255.251-255.259, this service can be provided as an "Additional Services", green building documentation services, fees related to project applications, registrations, and permitting, use of Revit computer software, 3D renderings, colored building elevations, construction documents and construction administration phase services, site plan approval or variance applications, re-zoning, plat/unity of title services, land surveying services, coordination of Art-In-Public Place Services, project phasing, hurricane shelter design services, cost estimating services, interior design services, laboratory design consultant services, civil engineering, geotechnical engineering services, structural engineering services, mechanical, electrical and plumbing engineering services, fire protection design services, landscape / irrigation design services, site planning services, sound system design, acoustical design services, BODR for Water Treatment Plant 8, and re-design as a result of value engineering.

G24. FS558.0035. – PURSUANT TO FLORIDA STATUTE 558.0035, AN INDIVIDUAL EMPLOYEE OR AGENT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE. (AS LONG AS THE BUSINESS ENTITY MAINTAINS THE PROFESSIONAL LIABILITY INSURANCE REQUIRED UNDER THIS CONTRACT AND AS LONG AS ANY DAMAGES ARE SOLELY ECONOMIC IN NATURE AND THE DAMAGES DO NOT EXTEND TO PERSONAL INJURIES OR PROPERTY NOT SUBJECT TO THE CONTRACT).

Sincerely,



Elizabeth A. G. Colome – Architect

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No.: 1
 SubConsultant: Colome & Associates, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

BUDGET SUMMARY FOR FIRM

Task Number	Task Description	Principal	Project Manager	Project Coordinator	Draftsperson	Clerical			PRIME TOTALS			
									Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE frm MASTER EXHIBIT C UPDATE	\$ 53.78	\$ 53.34	\$ 50.00	\$ 36.00	\$ 39.25						
	2024 Raw Rate >	\$ 53.78	\$ 53.34	\$ 50.00	\$ 36.00	\$ 39.25						
	Multiplier >	2.97	2.97	2.97	2.97	2.97						
	Bill Rate >	\$ 159.72	\$ 158.41	\$ 148.50	\$ 106.92	\$ 116.57						
TASK 1	WTP No. 2 Basis of Design Report											
	Architectural Narrative	21	4	44	24	6		99	\$ 13,767.26	\$ 296.00	\$ 14,063.26	
	Data Collection / Field Investigation		14	10	48	12		84	\$ 10,233.74	\$ -	\$ 10,233.74	
	Building Programming	42	20	62	24	10		164	\$ 23,514.64	\$ -	\$ 23,514.64	
	Building / Life Safety Code Review	82	18	50	78	4		232	\$ 32,179.46	\$ -	\$ 32,179.46	
	Architectural Conceptual Design Drawings	46	84	94	930	8		1162	\$ 134,980.72	\$ -	\$ 134,980.72	
	QA/QC & Production	24	88					112	\$ 17,773.36	\$ -	\$ 17,773.36	
	WUD Design Review Meeting	2	12		6			20	\$ 2,861.88	\$ -	\$ 2,861.88	
	Implement WUD Review Comments		8	10	98			116	\$ 13,230.44	\$ -	\$ 13,230.44	
	Task 1 - Subtotal	217	248	270	1208	46	0	0	1989	\$ 248,561.56	\$ 296.00	\$ 248,857.50
TASK 7	Project Management											
	Coordination with Prime	12	14	18	22	10			\$ 10,325.32	\$ -	\$ 10,325.32	
	Contract Administration	2	2						\$ 636.26	\$ -	\$ 636.26	
	Kickoff Meeting		3		3				\$ 795.99	\$ -	\$ 795.99	
	Task 7 - Subtotal	14	19	18	25	10	0	0	86	\$ 11,767.57	\$ -	\$ 11,767.57
	Labor Subtotal Hours	231	267	288	1233	56	0	0	2075			
	Labor Raw Costs	\$ 12,423.18	\$ 14,241.78	\$ 14,400.00	\$ 44,388.00	\$ 2,198.00	\$ -	\$ -		\$ 87,650.96		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 36,896.32	\$ 42,295.47	\$ 42,768.00	\$ 131,832.36	\$ 6,527.92	\$ -	\$ -		\$ 260,319.07		
	PROJECT TOTAL								2075	\$ 260,319.07	\$ 296.00	\$ 260,615.07

TASK 1 – WATER TREATMENT PLANT BASIS OF DESIGN REPORT (STRUCTURAL)

HBC will review available reports and collaborate with other disciplines to identify all structural buildings required for the WTP improvements. This collaboration will serve as the foundation for the structural basis of design for the proposed buildings.

HBC will visit the WTP No. 2 site up to three (3) times to collect information and review current siting conditions for proposed WTP.

The structural section of the BODR will address the governing building code, standards, and design criteria for the structural design for proposed improvements. Includes a discussion of the materials of construction for proposed structures. HBC's basis of design will include the structural discipline for the following items:

1. Physical Pre-treatment
2. Membrane Feedwater Pumps
3. Membrane Process Trains
4. Concentrate Booster Pumps (if determined to be necessary)
5. Post-treatment for aeration and stabilization
6. Clearwell structure and Transfer Pumps
7. Finished Water Storage
8. High Service Pumping
9. Chemical Systems
10. Membrane Clean-in-Place (CIP) system
11. Membrane Permeate Flush system
12. Electrical and Standby Power (structural infrastructure for equipment)
13. Buildings

Task 1 Deliverables:

- Draft Basis of Design Report
- Final Basis of Design Report

The expenses detailed in Attachment E are necessary to cover lodging, transportation, and other travel-related costs for a project specialist traveling to Palm Beach County for work purposes.

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No.: 1
 Consultant: HBC Engineering Company
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

BUDGET SUMMARY FOR FIRM												
Task Number	Task Description	Project Manager	Structures Manager	Senior Engineer III	Chief Engineer (QC)	Technician	Senior Technician	Engineer Intern	PRIME TOTALS			
									Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE from MASTER EXHIBIT C UPDATE	\$90-\$100	\$85-\$99.23	\$60-\$94.82	\$94-\$100	\$46-\$70	\$58-\$75	\$40-\$50.56				
	2024 Raw Rate >	\$ 100.00	\$ 89.23	\$ 94.82	\$ 100.00	\$ 70.00	\$ 75.00	\$ 50.56				
	Multiplier >	3.00	3.00	3.00	3.00	3.00	3.00	3.00				
	Bill Rate >	\$ 300.00	\$ 297.69	\$ 284.46	\$ 300.00	\$ 210.00	\$ 225.00	\$ 151.68				
TASK 1	BODR - WIP No. 2											
	Structural	82	124	66	20	132	74	20		\$ 133,691.52	\$ 600.00	\$ 134,291.52
	Task 1 - Subtotal	82	124	66	20	132	74	20	518	\$ 133,691.52	\$ 600.00	\$ 134,291.52
	Labor Subtotal Hours	82	124	66	20	132	74	20	518			
	Labor Raw Costs	\$ 8,200.00	\$ 12,304.52	\$ 6,258.12	\$ 2,000.00	\$ 9,240.00	\$ 5,550.00	\$ 1,011.20		\$ 44,563.84		
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ 24,600.00	\$ 36,913.56	\$ 18,774.36	\$ 6,000.00	\$ 27,720.00	\$ 16,650.00	\$ 3,033.60		\$ 133,691.52		
	PROJECT TOTAL								518	\$ 133,691.52		\$ 134,291.52



HILLERS ELECTRICAL ENGINEERING, INC

December 5, 2024

Nick Black, P.E.
Kimley-Horn
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411

Subject: Contract 2024-1424 - Water Treatment Plant No.2 Expansion Scope:

Dear Nick:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide Kimley-Horn and Associates (KHA) with this proposal for electrical, instrumentation and control (I&C), systems engineering services for basis of design reports (BODR) task for the above-referenced project. Our proposal is based upon the Scope of Services "Water Treatment Plant No.2 Expansion" between Kimley-Horn and Palm Beach County Water Utilities (PBCWUD). Our scope will include the following:

Task 1 – WATER TREATMENT PLANT BASIS OF DESIGN REPORT:

HEE will perform site visits (up to three (3)) times to collect information and review siting alternatives for the proposed Water Treatment Plant (WTP) equipment. HEE will review as-built drawings and perform field data collection/verification as needed.

HEE will coordinate with the FPL representative for the new FPL service as well as existing service upgrade for the plant electrical system improvements.

HEE will assist KHA with updating the "Water Treatment Plant #2 Expansion Study, WUD17-019" for the electrical and instrumentation/control related sections, including drawings.

HEE will provide a draft Basis of Design Report (BODR) and a final BODR for the electrical and instrumentation/control related sections for WTP No.2. The draft and final BODR will include the following items:

1. Surficial Aquifer System (SAS) Wellfield
2. Physical Pre-Treatment
3. Membrane Feedwater Pumps
4. Membrane Process Trains
5. Concentrate Booster Pumps (if determined to be necessary)
6. Post-Treatment for Aeration and Stabilization
7. Clearwell Structure and Transfer Pumps
8. Finished Water Storage
9. High Service Pumping
10. Chemical Systems
11. Membrane Clean-in-Place (CIP) System
12. Membrane Permeate Flush System



HILLERS ELECTRICAL ENGINEERING, INC

13. Electrical and Standby Power
14. Supervisory Control and Data Acquisition (SCADA) System
15. Buildings

Below is the anticipated HEE drawing list for this task.

WTP 2 BODR Drawing List:

- E-1 ELECTRICAL ONE LINE DIAGRAM - SHEET 1
- E-2 ELECTRICAL ONE LINE DIAGRAM - SHEET 2
- E-3 ELECTRICAL ONE LINE DIAGRAM - SHEET 3
- E-4 ELECTRICAL ONE LINE DIAGRAM - SHEET 4
- E-5 ELECTRICAL ONE LINE DIAGRAM - SHEET 5
- E-6 ELECTRICAL SITE PLAN - OVERALL PLAN
- E-7 ENLARGED ELECTRICAL SITE PLAN - SHEET 1
- E-8 ENLARGED ELECTRICAL SITE PLAN - SHEET 2
- E-9 ENLARGED ELECTRICAL SITE PLAN - SHEET 3
- E-10 ENLARGED ELECTRICAL SITE PLAN - SHEET 4
- E-10 ELECTRICAL/GENERATOR BUILDING -ELECTRICAL PLAN
- E-11 ADDITIONAL ELECTRICAL ROOM LAYOUT
- I-1 COMMUNICATION DIAGRAM - SHEET 1
- I-2 COMMUNICATION DIAGRAM - SHEET 2
- I-3 COMMUNICATION DIAGRAM - SHEET 3

Task 2 – HYDRAULIC MODELING:

Task 3 will be performed by KHA and other sub-consultants.

Task 3 – FUNDING SUPPORT

Task 4 will be performed by KHA.

Task 4 – PROJECT MEETINGS, MANAGEMENT AND ADMINISTRATION:

HEE will attend a project kick-off meeting.

HEE will attend up to two (2) workshops.

HEE will attend progress meetings and internal coordination meetings. HEE will provide monthly invoices.

HEE will attend a draft BODR review meeting for WTP 2 draft BODR.

HEE will attend a final BODR review meeting for WTP 2 final BODR.

Task 5 – PILOT TESTING:

HEE will have limited involvement in this task. HEE will assist KHA with the temporary power source for the pilot equipment as well as instrumentation and signal connections for recording



HILLERS ELECTRICAL ENGINEERING, INC

the pilot equipment, as needed. Assumption: No permit will be applied for the temporary power of the pilot equipment.

Our proposed not-to-exceed fee for all above listed services is \$114,206.04 as per the attached fee breakdown sheet.

If you have any questions, please do not hesitate to call me.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thein Win'.

Thein Win, P.E.
Senior Vice President
Hillers Electrical Engineering, Inc.
561-451-9165 x225

Palm Beach County Water Utilities Department											
Contract for Consulting/Professional Services Water Treatment Plant #2 Expansion											
Resolution No. R2024-1424 Contract Dated 10/22/2024											
Consultant Services Authorization No. 1											
Subconsultant: Hillers Electrical Engineering, Inc.											
Project Title: Water Treatment Plant No.2 Expansion											
PBCWUD Project No.: 2024-1424											
	Raw Rate	\$84.00	\$69.00	\$55.00	\$47.00	\$55.00	\$52.00	\$47.00			
	Multiplier	2.99	2.99	2.99	2.99	2.99	2.99	2.99			
	Base Rate	\$251.16	\$206.31	\$164.45	\$140.53	\$164.45	\$155.48	\$140.53			
		Proj. Man.	Profess Eng.	Lead Eng.	CADD/ Technician	Programmer	Const. Coordinator	Admin. Assist.	SUBTOTAL	TASK	TOTAL
PHASE OF WORK		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	COST	COST
Task 1 - Water Treatment Plant Basis of Design Report											
Site Visits, Reviews of As-Builts, Field Data Collection WTP2 (3 Visits)		4	24	24					52	\$9,902.88	
FPL Coordination and FPL Field Meeting WTP2		4	12	12					28	\$5,453.76	
Draft Basis of Design Report (BODR) for WTP2		8	96	88				8	200	\$37,410.88	
Draft BODR Cost for WTP2		4	16	16					36	\$6,936.00	
Final Basis of Design Report for WTP2		4	48	64				4	120	\$21,994.44	
Final BODR Cost for WTP2		1	8	8					17	\$3,217.24	
Task 2 - Hydraulic Modeling											
Task 2 - Hydraulic Modeling		0	0	0					0	\$0.00	
Task 3 - Funding Support											
Task 3 - Funding Support		0	0	0					0	\$0.00	
Task 4 - Project Meetings, Managements and Administration											
Project Kickoff Meeting		4	4	0					8	\$1,829.88	
Project Workshop (2 workshops)		8	8	8					24	\$4,975.36	
Progress Meeting (and internal coordination meetings, monthly invoices)		4	16	16				6	42	\$7,779.98	
Draft BODR Review Meeting WTP2 and Responses		4	12	12					28	\$5,453.76	
Final BODR Review Meeting WTP2 and Responses		4	8	8					20	\$3,970.72	
Task 5 - Pilot Testing											
Assist with pilot testing electrical requirements		2	12	14					28	\$5,280.34	
Constructoin Services Total Hours											
		51	264	270	0	0	0	18	603		
Total Construction Phase Services Total Cost											
		\$12,809.16	\$54,465.84	\$44,401.50	\$0.00	\$0.00	\$0.00	\$2,529.54			\$114,206.04

JLA Geosciences, Inc.

HYDROGEOLOGIC CONSULTANTS

1907 Commerce Lane, Suite 104
Jupiter, Florida 33458
(561) 746-0228
fax (561) 746-0119

Revised January 6, 2025

Via Electronic Mail

Nick Black, P.E.
Kimley-Horn and Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, Florida 33411

RE: *Proposal to provide Hydrogeologic Services for Palm Beach County Water Utilities Department, Water Treatment Plant No. 2 Expansion*

JLA Geosciences, Inc. (JLA) is pleased to have the opportunity to provide our services to Kimley-Horn and Associates, Inc. (KHA) in assisting their client, Palm Beach County Water Utilities Department (PBCWUD), with the preliminary basis of design of additional Surficial Aquifer System (SAS) production wells at Water Treatment Plant (WTP) No. 2, located in West Palm Beach, Florida.

Our proposed scope of work is as follows:

Task 1.0 BASIS OF DESIGN REPORT

Task 1.1 WTP No. 2 Reduction in Wellfield Footprint - Groundwater Modeling Impact Assessment.

The issuance of PBCWUD's current South Florida Water Management District (SFWMD) Water Use Permit (50-00135-W) for its eastern system was supported with groundwater modeling that included withdrawals from a total of 37 SAS production wells at WTP No. 2 to meet the permitted allocation of 8,237 million gallons (MG) annually and a maximum monthly allocation of 861.4 million gallons per month (MGM). Currently, the wellfield at WTP No. 2 is comprised of 17 SAS wells. The current approved SFWMD WUP includes up to 21 additional SAS wells, though it is understood that only wells required to meet demand will be constructed. Wells are anticipated to be constructed adjacent to Pinehurst Drive, north of WTP No. 2. As such, to better understand the potential impact of the reduction in wells/overall reduction in the footprint of the wellfield and its impact on drawdown within the SAS, a groundwater modeling impact assessment shall be performed by JLA.

The results of the impact assessment are intended to assess whether the reduction in wells/higher modeled individual well withdrawals negatively impacts existing legal users (ELUs), regional waterbodies, or nearby wetlands. Focus will be on comparing drawdown/surface water seepage resulting from model simulations performed to secure the currently permitted condition, with the future condition, whereby the total number of wells will be greatly reduced. The results of the evaluation are intended for PBCWUD informational purposes only and will not be submitted to the SFWMD.

Modeling scenarios will be updated to include or delete, as appropriate, any ELUs of the

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SAS whose status may have changed since the above-described groundwater modeling was performed in 2021. A cumulative impact scenario will be evaluated with respect to potential adverse impacts according to SFWMD permitting criteria, including harm to water resources, wetlands, ELUs, and offsite land uses; potential for saline water intrusion; and movement of known contamination to non-contaminated areas. Using the results of the impact assessments along with historical monitoring data, it is anticipated JLA will make recommendations for water use compliance “trigger levels” for groundwater and surface water levels within monitor wells and water bodies, respectively. A brief technical memorandum will be generated to summarize findings and recommendations. JLA will attend one (1) meeting between PBCWUD and KHA to discuss the findings and recommendations prior to generating the final technical memorandum.

Task 1.0 – Deliverables

- Draft technical memorandum summarizing groundwater modeling assessment provided in electronic format (PDF).
- Final technical memorandum summarizing groundwater modeling assessment provided in electronic format (PDF).

Task 1.0 – Assumptions

- Groundwater modeling assumes that the WTP No. 2 allocation will not change from the current permitted allocation outlined in SFWMD 50-00135-W.
- Future operations of existing wells will be based on individual historical well pumpage submitted to the SFWMD.

Task 1.2 **SAS Basis of Design Report**

JLA will evaluate existing WTP No. 2 wellfield consumptive use allocation, pumping capacities, and incorporating results of Task 1.1, JLA will evaluate the number of additional SAS wells required and prepare a basis of design for the proposed wells.

Task 1.0 – Deliverables

- Draft Basis of Design for SAS Well Design (PDF).
- Final Basis of Design for SAS Well Design (PDF).

Task 1.0 – Assumptions

- JLA Basis of Design will address underground well construction only. All above ground well design elements will be addressed by OTHERS.

TOTAL TIME AND MATERIALS NOT TO EXCEED COST ESTIMATE

\$ 42,562.00

JLA will perform authorized work in accordance with the “Consulting/Professional Services for Water Treatment Plant No. 2 Expansion”, Project No. 23-038, Contract Resolution No R2024-1424, dated November 7, 2024. Pursuant to the terms of the contract, hourly raw labor rates may be adjusted after a period of one year from the effective date of the contract and annually thereafter, subject to approval by PBCWUD.

Proposal for PBCWUD/KHA Water Treatment Plant No. 2 Expansion and Facility Improvements

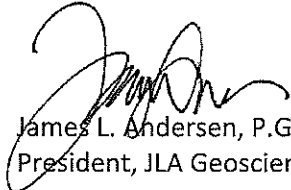
Revised January 6, 2025

Page 3 of 3

We thank you for this opportunity to provide KHA and PBCWUD with our services. If you have any questions, please don't hesitate to call me.

Sincerely,

JLA Geosciences, Inc.



James L. Andersen, P.G.
President, JLA Geosciences, Inc.

Attachment: *Attachment E*

jla/rks

**ATTACHMENT E
BUDGET SUMMARY**

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated 10/22/2024
 Consultant Services Authorization No.: 1
 SubConsultant: JLA Geosciences, Inc.
 Project Title: Water Treatment Plant No. 2 Expansion
 PBCWUD Project No.: 24-033

BUDGET SUMMARY FOR JLA Geosciences, Inc.														TOTALS			
Task Number	Task Description	President	Principal/Corporate Officer	Senior Hydrogeologist III	Senior Hydrogeologist II	Senior Hydrogeologist I	Geologist/ Hydrogeologist III	Geologist/ Hydrogeologist II	Geologist/ Hydrogeologist I	Project Administration	Hydrologic Technician	Principal Modeling	Total Hours	Total Labor	Total Expenses	Total Labor and Expenses	
	Raw Rate RANGE from MASTER EXHIBIT C UPDATE	\$75.00 - \$88.00	\$79.00 - \$82.00	\$66.00 - \$78.00	\$58.00 - \$68.00	\$45.00 - \$58.00	\$41.00 - \$55.00	\$38.00 - \$51.00	\$32.00 - \$47.00	\$35.00 - \$45.00	\$28.00 - \$35.00	\$75.00 - \$88.00					
	2024 Raw Rate >	\$ 83.93	\$ 78.57	\$ 73.57	\$ 64.29	\$ 55.38	\$ 50.00	\$ 46.43	\$ 42.86	\$ 37.50	\$ 35.71	\$ 83.93					
	Multiplier >	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80					
	Bill Rate >	\$ 235.00	\$ 220.00	\$ 206.00	\$ 180.00	\$ 155.00	\$ 140.00	\$ 130.00	\$ 120.00	\$ 105.00	\$ 100.00	\$ 235.00					
TASK 1	BASIS OF DESIGN REPORT																
	Groundwater Modeling Impact Assessment		18	42								82		\$ 31,882.00	\$ -	\$ 31,882.00	
	SAS Basis of Design Report		24		30									\$ 10,680.00	\$ -	\$ 10,680.00	
	Task 1 - Subtotal	0	42	42	30	0	0	0	0	0	0	82	196	\$ 42,562.00	\$ -	\$ 42,562.00	
	Labor Subtotal Hours	0	42	42	30	0	0	0	0	0	0	82	196				
	Labor Raw Costs	\$ -	\$ 3,300.00	\$ 3,090.00	\$ 1,928.67	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,862.14		\$ 15,200.71			
	Labor Subtotal (Bill Rate * Labor Subtotal Hours)	\$ -	\$ 9,240.00	\$ 8,652.00	\$ 5,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,270.00		\$ 42,562.00			
	PROJECT TOTAL												196	\$ 42,562.00		\$ 42,562.00	

ATTACHMENT F

Palm Beach County Water Utilities Department
 Contract for Consulting/Professional Services
Water Treatment Plant No. 2 Expansion
 Resolution No. R2024-1424 Contract Dated: October 22, 2024

SUMMARY OF SBE-M/WBE BUSINESS TRACKING

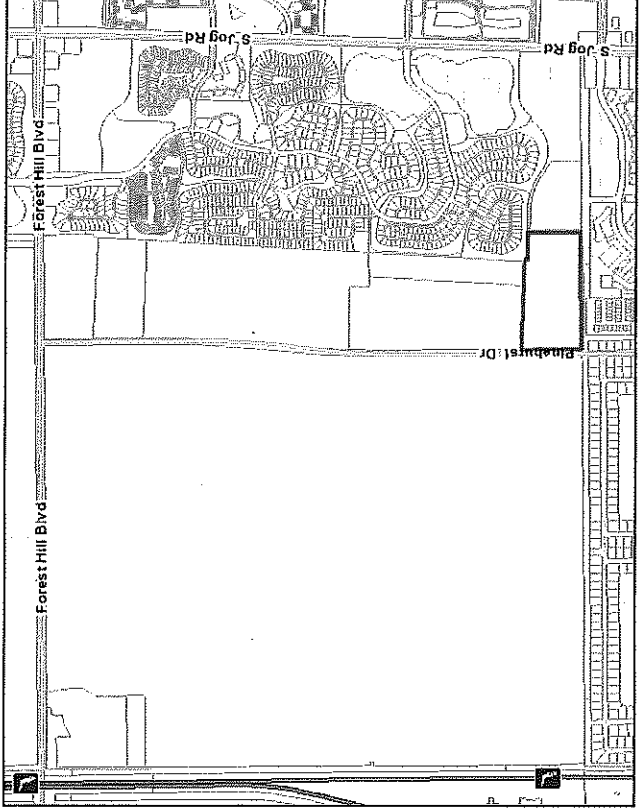
Master Contract Goals	TOTAL	SBE: 38%	MBE: 16.5%	MBE (AA): 16.5%
Current Proposal				
Value of Authorization No. 1	\$1,871,577.77			
Value of SBE-M/WBE Letters of Intent		\$707,104.63	\$403,927.56	\$289,721.52
Actual Percentage		37.78%	21.58%	15.48%
Signed/Approved Authorizations				
Total Value of Authorizations	\$0.00			
Total Value of SBE-M/WBE Signed Subcontractors		\$0.00	\$0.00	\$0.00
Actual Percentage				
Signed/Approved Authorizations Plus Current Proposal				
Total Value of Authorization	\$1,871,577.77			
Total Value of Subcontractors & Letters of Intent		\$707,104.63	\$403,927.56	\$289,721.52
Actual Percentage		37.78%	21.58%	15.48%

Revised 06-12-24

ATTACHMENT G

Location Map

PBCWUD Project No. 24-033



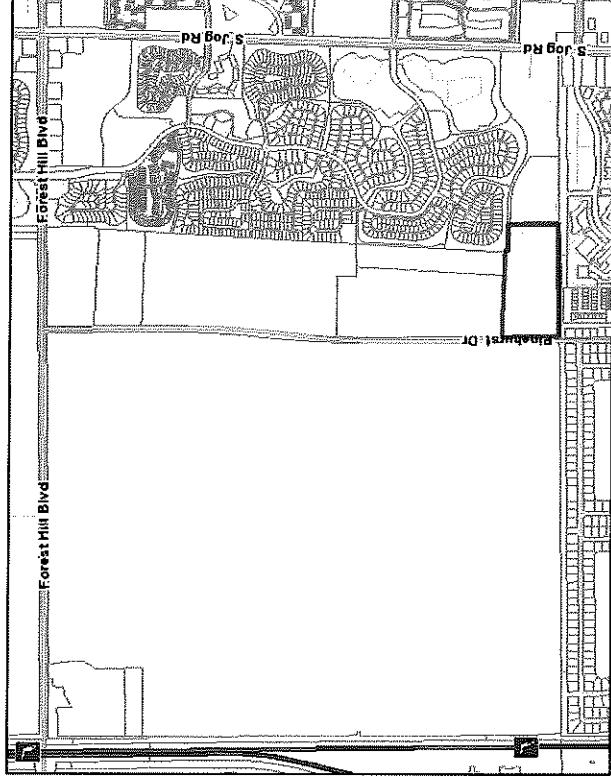
Water Treatment Plant No. 2

Revised 06-12-24

ATTACHMENT 2

Location Map

PBCWUD Project No. 24-033



Water Treatment Plant No. 2



**Palm Beach County
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00002923	Kimley-Horn and Associates, Inc.	Modified	Compliant					23-038	Water Treatment Plant No. 2 Expansion
		Ap , XV	National Union Fire Insurance Company of Pittsburg	CA2970071	4/1/2024	4/1/2025	Auto Liability		
		Ap , XV	National Union Fire Insurance Company of Pittsburg	CA4489663	4/1/2024	4/1/2025	Auto Liability		
		Ag , XV	Allied World Assurance Company (U.S.) Inc.	03127930	4/1/2024	4/1/2025	Excess Liability		
		Ap , XV	National Union Fire Insurance Company of Pittsburg	GL5268169	4/1/2024	4/1/2025	General Liability		
		A , XV	Lloyds Underwriters (Canada Branch)	B0146LDUSA2404949	4/1/2024	4/1/2025	Professional Liability		
		Ar , XV	New Hampshire Insurance Company	WC015893685	4/1/2024	4/1/2025	Workers Comp		

Risk Profile : Standard - Construction Services
Required Additional Insured : Palm Beach County Board of County Commissioners
Ownership Entity :