

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: June 15, 2021                      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. 6 to the Consulting/Professional Services Water Treatment and Water Resources Engineering Services Contract (Contract) with CDM Smith Inc., (Consultant) for the Consumptive Use Permit Renewal Support (Project) for a not to exceed amount of \$317,536.60.

**Summary:** On November 17, 2020 the Board of County Commissioners approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2020-1719) with Consultant. CSA No. 6 provides for professional engineering services relating to renewal of the Consumptive Use Permit (CUP). These services include, data collection, groundwater modeling, meetings, preparing a water conservation plan, and submitting the permit application.

This Contract was procured under the requirements of the Equal Business Opportunity Ordinance. On September 18, 2019, the Goal Setting Committee applied an Affirmative Procurement Initiative (API) of a minimum mandatory 20% Small Business Enterprise (SBE) subcontracting goal and an evaluation preference for up to 15 points based upon the relative level of dollar participation by certified SBE firms were the API applied to the Contract. The Contract provides for 21.00% SBE participation which includes 19.00% M/WBE participation, 19.00% MBE (B). CSA No. 6 includes 58.84% SBE participation which includes 0.00% M/WBE participation, 0.00% MBE (B). The SBE participation including CSA No. 6 is 55.57% SBE, which includes 0.00% MBE (B). While Consultant is headquartered in Boston, Massachusetts, they maintain an office in Palm Beach County from which the majority of the work under this Project will be performed. This project is included in the PBCWUD FY21 Budget. (PBCWUD Project No. 21-015) Districts 1, 2, 3, 5, 6 (MJ)

**Background and Justification:** The existing CUP with the South Florida Water Management District (SFWMD) that permits withdrawals from wells supplying Water Treatment Plant Nos. 2, 3, 8, and 9 is set to expire on March 23, 2023. Since issuance of the permit nearly 20 years ago, numerous permitting criteria and regulations have been updated or added. The work to be completed under the Project will assist PBCWUD with the application process to provide Palm Beach County with the water allocation to meet its future water needs. The CUP application will request at least a 20-year permit duration and no reduction in allocation will be requested from SFWMD.

**Attachments:**

- 1. Two (2) Originals of Consultant Services Authorization No. 6
- 2. Location Map
- 3. Certificate of Liability Insurance

Recommended By: Ali Bayat                      5/19/21  
Department Director                      Date

Approved By: [Signature]                      6/3/2021  
Assistant County Administrator                      Date

## II. FISCAL IMPACT ANALYSIS

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	\$317,537	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	0	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
NET FISCAL IMPACT	\$317,537	0	0	0	0
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

**Budget Account No.:** Fund 4001 Dept 720 Unit 2322 Object 3120

Is Item Included in Current Budget? Yes **X** No

Does this item include the use of federal funds? Yes ☐ No ☒

Reporting Category **N/A**

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

One (1) time expenditure from user fees, connection fees and balance brought forward.

C. Department Fiscal Review:                      65

### III. REVIEW COMMENTS

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

Luz Mante 5/25/21  
OFMB Off 5-14-21 BR 5120

A. J. Jacobson 5/11/21  
Contract Development and Control  
6-1-21

**B. Legal Sufficiency:**

Assistant County Attorney

**C. Other Department Review:**

Department Director

This summary is not to be used as a basis for payment.

CONSULTANT SERVICES AUTHORIZATION NO. 06

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Water Treatment and Water Resources Engineering Services  
Resolution No. R2020-1719 Contract Dated November 17, 2020

**Project Title:** Consumptive Use Permit Renewal Support

**PBCWUD Project No.:** 21-015

**Consultant:** CDM Smith Inc.

**Address:** 621 NW 53<sup>rd</sup> Street, Suite 265, Boca Raton, Florida 33487

**Budget Line Item No.:** 4001-720-2322-3120

**District No.:** 1, 2, 3, 5, 6

This Consultant Services Authorization provides for: CONSULTANT to assist with the application process that will provide the COUNTY with the water allocation to meet its future water needs.

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

The Contract provides for 21.0% SBE participation which includes 19.0% M/WBE participation, 19.0% MBE(B). This Consultant Services Authorization includes 58.84% overall participation which includes 0.00% M/WBE participation, 0.00% MBE (B). The cumulative SBE participation, including this authorization is 55.57% which includes 0.00% M/WBE participation, 0.00% MBE (B).

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 \$317,536.60
  - B. Fixed price of \$0
  - C. Total \$317,536.60
4. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

CONSULTANT SERVICES AUTHORIZATION NO. 06

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Water Treatment and Water Resources Engineering Services  
Resolution No. R2020-1719 Contract Dated November 17, 2020

**Project Title:** Consumptive Use Permit Renewal Support

**PBCWUD Project No.:** 21-015

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 November 17, 2020 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. 06

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Water Treatment and Water Resources Engineering Services  
Resolution No. R2020-1719 Contract Dated November 17, 2020

Project Title: Consumptive Use Permit Renewal Support

PBCWUD Project No.: 21-015

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: \_\_\_\_\_

*KB* *A13*  
Dave Kerner, Mayor

Typed Name: \_\_\_\_\_  
Deputy Clerk

\_\_\_\_\_  
(Date)

Approved as to Form and Legal  
Sufficiency

CONSULTANT: CDM Smith Inc.

Signed: \_\_\_\_\_

*[Signature]*  
\_\_\_\_\_  
(Signature)

Typed Name: Michael W. Jones  
County Attorney

Suzanne E. Mechler, PE, BCEE, Associate  
(Name and Title)

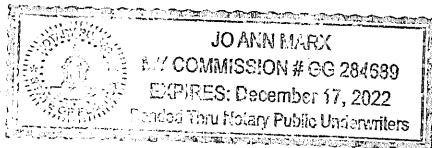
4/20/21  
(Date)

STATE OF FLORIDA  
COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization,  
this 20 day of April, 2021, by Suzanne E Mechler who is ☐ personally  
known to me or ☒ has produced Fl. DL as identification.

*[Signature]*  
\_\_\_\_\_  
(Signature of Notary Public - State of Florida)

Jo Ann Marx  
\_\_\_\_\_  
(Print, Type, or Stamp Commissioned Name of Notary Public)





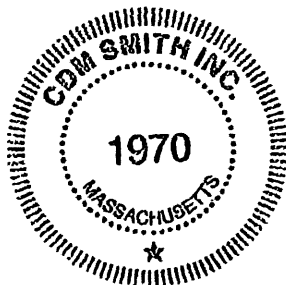
75 State Street, Suite 701  
Boston, Massachusetts 02109  
tel: 617 452-6000

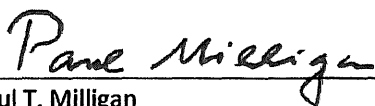
## CERTIFICATE

I, Paul T. Milligan, Secretary/Clerk of CDM Smith Inc., a Massachusetts corporation, do hereby certify that Suzanne E. Mechler, PE, BCEE and Associate holds the position of Client Service Leader, which entitles Ms. Mechler to execute and deliver proposals, contracts and agreements for the performance of professional services in the name and on behalf of CDM Smith Inc. with a value of up to \$1 million. Further, Ms. Mechler has authority to execute and deliver proposals, contracts, agreements and amendments and has been delegated authority up to \$3 million specifically for the performance of professional services for Palm Beach County Water Utilities Department (PBCWUD) Water Treatment and Water Resources Engineering Services.

I further certify that the foregoing is consistent with the Contract Signing Authority Policy and with the By-laws of the said corporation.

IN WITNESS WHEREOF, I have executed this certificate and have caused the corporate seal of CDM Smith Inc. to be hereunder affixed on this 5<sup>th</sup> day of February 2020.



  
Paul T. Milligan  
Secretary/Clerk of the Corporation

COA-MECHLER, Suzanne-Palm Beach (PBCWUD)-02.05.2020

WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES



Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Water Treatment and Water Resources Engineering Services  
Resolution No. R2020-1719 Contract Dated November 17, 2020

**LIST OF ATTACHMENTS**

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

**ATTACHMENT A**

**SCOPE OF SERVICES**

**PBCWUD Project No:** 21-015

**Project Title:** Consumptive Use Permit Renewal Support

CONSULTANT shall perform:

**PROJECT BACKGROUND**

Palm Beach County Water Utilities Department (COUNTY) has retained the CONSULTANT to provide consulting/professional services on its Water Treatment and Water Resources systems. The COUNTY owns and operates five water treatment plants (WTP) and corresponding water supply wells. Withdrawals from wells supplying the four eastern WTP’s (2, 3, 8, 9) are permitted by South Florida Water Management District (SFWMD) Consumptive Use Permit (CUP) 50-00135-W, which is set to expire on March 23, 2023. Since issuance of the permit in 2003, numerous permitting criteria and regulations have been updated or added. The wells supplying the western (Lake Region) WTP are permitted by CUP 50-06857-W, which expires on October 12, 2025. Renewal/modification of CUP 50-06857-W is not included in this Consultant Services Authorization (CSA).

The Lower East Coast Regional Water Availability Rule (RWAR) was adopted in 2007 by the South Florida Water Management District (SFWMD). The RWAR restricts allocations to consumptive users to conserve the water needed for the recovery, protection and restoration of the Everglades and North Palm Beach County/Loxahatchee River Watershed Waterbodies. It regulates the use of water from urban areas within Dade, Broward, Palm Beach, and Martin Counties (Subsection 3.2.1.E of the Applicant’s Handbook). The COUNTY is potentially vulnerable to a reduction in allocation to its historic “base condition water use” upon renewal. This would be a loss of millions of gallons per day from the Surficial Aquifer System (SAS) and would require additional development of costly alternative water supplies beyond those currently planned.

The initial steps in securing the COUNTY’s permit modification were performed under CSA01 to confirm the SFWMD’s interpretation of the COUNTY’s base condition water use and review technical information considering existing permitting criteria to support the COUNTY’s future water supply development. The COUNTY desires the CONSULTANT to assist with the application process that will provide the COUNTY with the water allocation to meet its future water needs (projects). The CUP application submitted will request at least a 20-year permit duration and no reduction in allocation will be requested.

The COUNTY understands that achieving its objectives in renewal/modification of its CUP may require discussion and negotiation with SFWMD personnel other than regulatory permitting staff, such as legal counsel and policy makers.



The Project encompasses permit application support for renewal/modification of WUD's 20-year CUP 50-00135-W.

Project management includes activities related to initiating, planning, executing, controlling, and closing the Project. Under this Task, the CONSULTANT will be responsible for overall coordination and oversight of the project execution. The CONSULTANT's Project Manager will be the primary point of contact with the COUNTY and will lead the CONSULTANT during the project execution, focusing on quality completion of the project tasks on schedule and budget.

The CONSULTANT maintains a Quality Management System (QMS) on each project. CONSULTANT shall perform a technical review of the deliverables, in accordance with QMS, prior to transmitting them to COUNTY.

a) Monthly invoice (application for payment) with project status report

## SUBTASK 2.1 DATA COLLECTION

The CONSULTANT will obtain and assemble the necessary information as required to complete SFWMD Form 1379 Water Use Application 072014 and associated forms or their equivalents available through SFWMD's ePermitting system for an Individual CUP. Data will be obtained from the COUNTY where appropriate. This will include specific information required for SFWMD Form 1379 (dated 2014/07) such as Supplemental E – Public Supply.

Deliverable:

- a) Pencil markup of a PDF of the water use application forms

**SUBTASK 2.2 GROUNDWATER FLOW MODELING OF THE SURFICIAL AQUIFER**

The CONSULTANT will update MODFLOW numerical models of the SAS for WTP No. 2, 3, 8 and 9 developed and documented for the Integrated Utility Master Plan Technical Memorandum No. 6.1 – Raw Water Planning Considerations (JLA and Tetra Tech, October 2020). Model simulations to support the requested permitted quantities will be simulated and will incorporate wellfield operating plans to simulate monthly withdrawals consistent with SFWMD permitting requirements and anticipated COUNTY water supply demands.

Consistent with SFWMD permitting requirements, modeling scenarios will be updated to include or delete, as appropriate, existing legal users (ELUs) of the SAS whose status changed since the above-described groundwater modeling was performed in 2020. Cumulative impact scenarios 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.

WTP No. 3 groundwater model simulations will also be updated to include any additional planned recharge of the Green Cay Phase 2 project. Proposed new well locations and anticipated recharge will be incorporated into simulations of the wellfield operation for impact assessment.

WTP No. 2 and 8 groundwater model simulations will also be updated to include additional withdrawals from proposed future treatment processes.

If offsets/alternative water supplies needed for additional withdrawals above base condition (which is to be determined) are necessary, the groundwater models will evaluate the extent to which increases above the base condition may impact the regional system via canal seepage. Models will also assist with identifying wellfield drawdown with respect to reclaimed water users, and if necessary, evaluate how discharge of reclaimed water may reduce model simulated drawdown resulting from COUNTY’s wellfield withdrawals.

Using the results of the impact assessments along with historical monitoring data, CONSULTANT will make recommendations for water use compliance “trigger levels” for groundwater and surface water levels within monitor wells and water bodies, respectively. SFWMD is taking a more proactive approach to monitoring and compliance data and with recently modified or renewed public water supply permits has begun incorporating groundwater and surface water levels into either permit limiting conditions or its compliance database that are intended to initiate action by the permittee, should reported water level data fall below a predetermined level.

Withdrawals from the Floridan Aquifer System (FAS) at WTP No. 3 and WTP No. 9 are currently permitted by the SFWMD for blending with surficial aquifer withdrawals. At this time, no increase to the currently permitted FAS allocation is anticipated. The groundwater modeling previously submitted in support of the FAS allocation meets the current criteria defined in the Applicant’s Handbook for Water Use Permit Applications; therefore, no additional modeling simulations are proposed for the FAS at this time.

Deliverable:

- a) Draft Technical Memorandum in pdf format documenting model development, application, and impact analysis for County review.
- b) Review of Draft Technical Memorandum Meeting Minutes.
- c) Final Technical Memorandum for COUNTY review.
- d) Review Technical Memorandum Meeting Notes.
- e) Final Technical Memorandum.

**SUBTASK 2.3 Water Conservation Plan**

The CONSULTANT will prepare a draft water conservation plan for review and comment by the COUNTY. The plan will outline the COUNTY’S current and proposed water conservation plan elements that meet the requirements outlined in Subsection 2.3.2.F.1 of the Applicant’s Handbook for a Standard Water Conservation Plan or a Goal-Based Conservation Plan. Information will be obtained from the COUNTY where appropriate. Included in the Water Conservation Plan will be the COUNTY’s proposed Irrigation Ordinance.

Deliverable:

- a) The CONSULTANT will incorporate COUNTY’s comments into the water conservation plan for inclusion in the water use permit application to the SFWMD.

**SUBTASK 2.4 REGULATORY PRE-APPLICATION MEETINGS**

Included in this task are up to two (2) meetings with regulatory agencies as follows. A meeting will be held between the COUNTY, the CONSULTANT and SFWMD to discuss the permit renewal/modification prior to submitting the ePermitting application. This meeting with SFWMD staff will be held to discuss and to review final details of the application. A second meeting will be held on an ad-hoc basis to discuss the request for additional information after the application is submitted. In addition, the CONSULTANT will work with SFWMD for the acceptance of draft permitting materials such as population, per capita use rates, and the water conservation plan.

Deliverable:

- a) Meeting Minutes.

**SUTASK 2.5 PREPARE AND SUBMIT THE WATER USE PERMIT APPLICATION**

The CONSULTANT will prepare a draft permit application report (PDF format) for review and comment by the COUNTY. The permit application report will be organized to follow the requirements of SFWMD Form 1379 (Form 1379).

The CONSULTANT will incorporate COUNTY comments into the draft pdf permit application report and will then upload the same information via ePermitting to SFWMD. The permit application will contain the same information as the completed Form 1379 along with Supplemental E and associated figures and documents required.

Deliverable:

- a) Draft markup of a PDF of the water use application forms.
- b) Submittal of final version of the water use permit application to the SFWMD

## SUBTASK 2.6 LEGAL COUNSEL

Included in this task are up to two (2) meetings between the CONSULTANT, its subcontractors, and COUNTY representatives, and meetings with SFWMD leadership to execute the COUNTY's permitting strategy and achieve project objectives. The CONSULTANT and its subcontractors also will advise the COUNTY on evolving State and SFWMD policy and regulatory activities related to public water supply availability and permitting, and relevant to renewal/modification of the COUNTY's CUP.

Deliverable:

- ### a) Meeting Attendance and Participation

### SUBTASK 2.7 Request for Additional Information (RAI) and Post Application Support

CONSULTANT will work with SFWMD to facilitate the permit review process after application submittal by answering questions and providing supplemental information as requested by SFWMD to eliminate as many outstanding issues as possible as they arise. However, due to the complexity and scale of permitting the renewal of a 20-plus year CUP, a request for additional information (RAI) from SFWMD is most likely. Under this task, the CONSULTANT will prepare and submit a response to one (1) SFWMD RAI in support of the permit application. The CONSULTANT will prepare the RAI response for review and comment by the COUNTY. The CONSULTANT will incorporate the COUNTY comments and submit a reply via ePermitting to the SFWMD.

Deliverable:

- a) Response to RAI

**DATA OR ASSISTANCE TO BE PROVIDED BY THE COUNTY**

- Provide a copy of the raw water master plan
- Provide a copy of the five (5) year and ten (10) year CUP compliance reports
- Provide a copy of the most recent 10-year Water Supply Facilities Work Plan Submitted to SFWMD
- Provide a copy of the COUNTY water service area population projections in five-year increments
- Provide a copy of the historical (past five (5) years at minimum) per capita use quantities by water use district/area
- Provide the raw water to finished water conversion rate(s)
- Provide a copy of the proposed or newly drafted COUNTY Ordinance of irrigation days
- Provide a letter of authorization for the CONSULTANT and its subcontractors to submit application materials to SFWMD on its behalf

### ASSUMPTIONS

At the time of developing the proposal for this Project, meetings are anticipated to be held face to face under social distancing guidelines and other COUNTY, or CONSULTANT, mandated precautions, as allowable under COUNTY rules and CONSULTANT's Health and Safety policy in effect at the time of the actual meetings. Virtual options for the meetings and attendees will be made available.

The CONSULTANT will prepare and submit responses to additional SFWMD RAI(s) in support of the COUNTY permit application under a separate budget. This task may also include a meeting with SFWMD staff. This meeting will identify any concerns that the SFWMD may have and any additional data that may be needed in support of the permit application.

The COUNTY shall provide the following contributions unless otherwise available through public resources:

1. Electronic copies (spreadsheets) of well construction, well survey, and pump data not on file with CONSULTANT;
2. Status of water supply wells listing which wells are existing versus proposed;
3. Well pumping rates and groundwater quality by well (on a semi-annual basis) for the last 10 years not on file with CONSULTANT and copies of existing operating permits and the current Consumptive Use Permit. Data reported on the SFWMD Monthly Pumpage Reports would be the most useful. Electronic versions of these data are preferred;
4. Historic treated water use data for the last 10 years by month. Data must be of sufficient detail to determine the maximum daily pumping rate for each month;
5. A copy of any agreement with other utilities regarding interconnections or water purchase including volumes of water transfers for last 5-years at a minimum;
6. Population projections and land use types through 2055;
7. COUNTY corporate limit, service area, land use, and zoning maps. If available, an electronic copy of the map (GIS) is requested;
8. A recent copy of aerial photographs covering the COUNTY. If available, an electronic copy of the photograph is requested;
9. A copy of the most recent version of the COUNTY’s Comprehensive Development Plan;
10. A copy of the most recent Water Conservation Plan;
11. The locations and groundwater elevation data for any surficial aquifer monitoring wells used by the COUNTY;
12. The locations, construction data, and water quality data for monitoring wells associated with the COUNTY’s Saltwater Intrusion Monitoring (SALT) program; and
13. The permit application fee for submittal to SFWMD through ePermitting will be paid by the COUNTY.

## ATTACHMENT B

## SUMMARY AND STATUS OF CONSULTANT SERVICES AUTHORIZATIONS

[illegible]

Revised 02/11/2021

**ATTACHMENT C**

**OEBO SCHEDULE 1**

**Office of Equal Business Opportunity Compliance Programs**

OEBO SCHEDULE 1

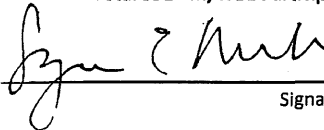
LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

SOLICITATION/PROJECT/BID NAME: Consumptive Use Permit Renewal Support  
NAME OF PRIME RESPONDENT/BIDDER: CDM Smith Inc.  
CONTACT PERSON: Suzanne E. Mechler, PE, BCEE  
SOLICITATION OPENING/SUBMITTAL DATE: December 23, 2020

SOLICITATION/PROJECT/BID No.: PBCWUD Project No. 21-015  
ADDRESS: 621 NW 53rd Street, Suite 265, Boca Raton, FL 33487  
PHONE NO.: 561.571.3800 E-MAIL: mechlarse@cdmsmith.com  
DEPARTMENT: Palm Beach County Water Utilities Department

PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT ON THIS PROJECT.  
PLEASE ALSO LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT.

Name, Address and Phone Number	(Check all Applicable Categories)			DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	Non-SBE	M/WBE Minority/Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. CDM Smith Inc. 621 NW 53rd Street, Suite 265 Boca Raton, FL 33487	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	\$94,695.00
2. Manson Bolves Donaldson Varn PA 515 N. Flagler Drive, Suite 301 West Palm Beach, FL 33401	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	\$36,000.00
3. GMAWater, LLC 125 S. State Road 7, Suite 104-260 Wellington, FL 33414	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$39,081.60	_____
4. JLA Geosciences, Inc. 1907 Commerce Lane, Suite 104 Jupiter, FL 33458	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$147,760.00	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
(Please use additional sheets if necessary)				Total	_____	_____	\$186,841.60	\$130,695.00
Total Bid Price \$ 317,536.60				Total SBE - M/WBE Participation 58.84%				

I hereby certify that the above information is accurate to the best of my knowledge:  Signature  
Suzanne E. Mechler, Associate Title

- Note:
- 1. The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
  - 2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
  - 3. Modification of this form is not permitted and will be rejected upon submittal.



## ATTACHMENT C

## OEBO SCHEDULE 2

## Office of Equal Business Opportunity Compliance Programs

Revised 02/11/2021

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: PBCWUD Project No. 21-015

SOLICITATION/PROJECT NAME: Consumptive Use Permit Renewal Support

Prime Contractor: CDM Smith Inc.

Subcontractor: Manson Bolves Donaldson Varn PA

(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

☒ Male ☐ Female

☐ African-American/Black ☐ Asian American ☒ Caucasian American

☐ Supplier

☐ Hispanic American ☐ 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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.**

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
N/A	Consumptive Use Permit Renewal Support				\$36,000.00

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: \$36,000.00

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.

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Price or Percentage:

CDM Smith Inc.

Print Name of Prime

By:

Authorized Signature

Suzanne E. Mechler, PE, BCEE

Print Name

Associate

Title

Date: April 19, 2021

Manson Bolves Donaldson Varn PA

Print Name of Subcontractor/subconsultant

By:

Authorized Signature

Laura Jacobs Donaldson

Print Name

Treasurer

Title

Date: April 19, 2021

Revised 09/17/2019

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: PBCWUD Project No. 21-015  
SOLICITATION/PROJECT NAME: Consumptive Use Permit Renewal Support

Prime Contractor: CDM Smith Inc. Subcontractor: GMAWater, LLC

(Check box(s) that apply)

☒ SBE ☐ WBE ☐ MBE ☐ M/WBE ☐ Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 3/23/2020 to 3/22/2023

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

Column 1

Column 2

Column 3

☒ Male ☐ Female

☐ African-American/Black

☐ Asian American

☒ Caucasian American

☐ Supplier

☐ Hispanic American

☐ 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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/Units	Contingencies/Allowances	Total Price/Percentage
N/A	Consumptive Use Permit Renewal Support				\$39,081.60

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: \$39,081.60

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.

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Price or Percentage: \_\_\_\_\_

CDM Smith Inc.

Print Name of Prime

By:

Authorized Signature

Suzanne E. Mechler, PE, BCEE

Print Name

Associate

Title

Date: April 19, 2021

GMAWater, LLC

Print Name of Subcontractor/subconsultant

By:

Authorized Signature

Steven Memberg

Print Name

Managing Member

Title

Date: April 19, 2021

Revised 09/17/2019

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: PBCWUD Project No. 21-015  
SOLICITATION/PROJECT NAME: Consumptive Use Permit Renewal Support

Prime Contractor: CDM Smith 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): 4/10/2020 to 4/09/2023

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. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
N/A	Consumptive Use Permit Renewal Support	\$147,760.00	1	N/A	\$147,760.00
	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: \$147,760.00 (100%)

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.

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

CDM Smith Inc.

Print Name of Prime

By:

Authorized Signature

Suzanne E. Mechler, PE, BCEE

Print Name

Associate

Title

Date: April 19, 2021

JLA Geosciences, Inc.

Print Name of Subcontractor/subconsultant

By:

Authorized Signature

James L. Andersen

Print Name

President, JLA Geosciences, Inc.

Title

Date: April 19, 2021

ATTACHMENT D

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

<u>Engineering Services</u>	<u>Completion Date from Notice to Proceed</u>
Task 1 Project and Quality Management	240 Calendar Days
Task 2 Application	240 Calendar Days

Revised 02/11/2021

ATTACHMENT E  
BUDGET SUMMARY

Palm Beach County Water Utilities Department  
Contract for Consulting /Professional Services Water Treatment and Water Resources Engineering Services  
Resolution No. R2020-1719 Contract Dated November 17, 2020  
Consultant Services Authorization: 06  
Consultant: CDM Smith Inc.  
Project Title: Consumptive Use Permit Renewal Support  
WUD Project No.: 21-015

Budget Summary														
Labor Classification and Hourly Rate														
		Senior	Senior Technical	Associate	Principal	Senior	Professional II	Senior Support	Professional I	Senior Contract	Project	Document Control		Sub
Task		Officer	Expert			Professional		Services		Adminlstration	Administration	Specialist	Total	Consultant
Number	Task Description	[\$89.50-102.50]	[\$86.00-95.50]	[\$73.00-82.50]	[\$71.00-80.50]	[\$56.50-67.50]	[\$46.00-54.50]	[\$45.00-54.00]	[\$38.50-47.00]	[\$36.50-44.50]	[\$32.50-39.50]	[\$28.50-36.00]	Labor	Services
Task 1	Project and Quality Management	2		30	8		1	14	1	16			18	\$ 15,261.00
Task 2	Application													\$ -
2.1	Data Collection			11			2		16				\$ 4,740.00	\$ 7,646.40
2.2	Groundwater Flow Modeling of the Surficial Aquifer			96			40		24				\$ 31,152.00	\$ 104,148.80
2.3	Water Conservation Plan			2			2						\$ 762.00	\$ 12,529.60
2.4	Regulatory Pre-Application Meetings			18			4						\$ 4,800.00	\$ 11,268.80
	Prepare and Submit the Water Use Permit Application			70			16						\$ 18,732.00	\$ 12,744.00
2.6	Legal Counsel			10									\$ 2,340.00	\$ 36,000.00
	Request for Additional Information (RAI) and Post Application Support			18			80		8				\$ 16,908.00	\$ 38,504.00
2.7														\$ 55,412.00
	Subtotal	2	0	255	8	0	145	14	49	16	0	18		
	Labor Subtotal Hours	2	0	255	8	0	145	14	49	16	0	18	507	
	Labor Raw Costs	\$ 102.50	\$ 86.00	\$ 78.00	\$ 73.00	\$ 65.00	\$ 49.00	\$ 54.00	\$ 39.00	\$ 37.00	\$ 33.00	\$ 29.00		
	Labor Multiplier	3	3	3	3	3	3	3	3	3	3	3		
	Labor Sub Total	\$ 615.00	\$ -	\$ 59,670.00	\$ 1,752.00	\$ -	\$ 21,315.00	\$ 2,268.00	\$ 5,733.00	\$ 1,776.00	\$ -	\$ 1,566.00		
	Labor Total												\$ 94,695.00	
	Sub Consultant Labor Total													
	Sub Consultant Multiplier													
	Subcontract Total (GMA, JLA, MBDV)													\$ 222,841.60
	Project Total													\$ 317,536.60



Integrity. Intelligence. Diligence.

March 15, 2021

Ms. Suzanne E. Mechler, P.E.  
Client Service Leader  
CDM Smith, Inc.  
621 NW 53<sup>rd</sup> Street, Suite 265  
Boca Raton, FL 33487

RE: Palm Beach County Water Utilities Project No. 19-076R

Dear Ms. Mechler,

Thank you for the opportunity to support CDM Smith and provide professional services to the Palm Beach County Water Utilities Department as part of the Consultant Team seeking to renew the County's Consumptive Use Permit (CUP), No. 50-00135-W. This proposal provides for the firm to assist with development and submittal of a CUP application that will provide the County with a water allocation that meets its future water needs.

This proposal budgets for meetings between the firm, CDM Smith and its subcontractors, the County, and the South Florida Water Management District (SFWMD) as directed and as necessary to execute the County's permitting strategy and achieve project objectives. We expect this budget to include services through submittal of one SFWMD request for additional information in support of the permit application. For these services, firm attorneys will bill up to 120 hours at an hourly rate of \$300.00.

Please contact me or Laura Donaldson should you have any questions or comments.

Sincerely,

MANSON BOLVES DONALDSON VARN, P.A.

A handwritten signature in black ink that reads "Brian Accardo".

Brian Accardo  
Shareholder

**Tampa**      **Tallahassee**      **West Palm Beach**      **Orlando**  
109 North Brush Street, Suite 300 Tampa, FL 33602 (T) 813.514.4700 (F) 813.514.4701  
[www.MansonBolves.com](http://www.MansonBolves.com)



April 20, 2021

**Subject: Palm Beach County Water Utilities Department  
Consumptive Use Permit Renewal Support**

The firm of **GMAwater, LLC** (GMA) is pleased to assist the Palm Beach County (County) the renewal of consumptive use permit 50-00135-W from South Florida Water Management District (SFWMD).

Palm Beach County Water Utilities Department (PBCWUD) currently holds consumptive use permit 50-00135-W set to expire on March 23, 2023. Since issuance of the permit in 2003, numerous permitting criteria have been updated or added. Additionally, PBCWUD plans on updating operations, treatment processes, and use of alternative water supplies that must be addressed in the permit.

**Scope of Services**

Professional services to be provided under this scope of work include the following:

**TASK 2 – APPLICATION**

**SUBTASK 2.1 DATA COLLECTION**

GMA will work with the County and its consultants to obtain and assemble the necessary information as required to complete SFWMD Form 1379 Water Use Application 072014 and associated forms or their equivalents available through SFWMD's ePermitting system for an Individual CUP. Data will be obtained from the COUNTY where appropriate. This will include specific information required for SFWMD Form 1379 (dated 2014/07) such as Supplemental E – Public Supply.

**SUBTASK 2.2 GROUNDWATER FLOW MODELING**

GMA will work with the County and its consultants to support model simulations of proposed withdrawals for compliance with consumptive use permitting criteria.

**SUBTASK 2.3 WATER CONSERVATION PLAN**

GMA will work with the County and its consultants to support a draft water conservation plan that meets the requirements outlined in Subsection 2.3.2.F.1 of the Applicant's Handbook for a Standard Water Conservation Plan or a Goal-Based Conservation Plan.

**SUBTASK 2.4 REGULATORY PRE-APPLICATION MEETINGS**

GMA will participate in up to two (2) meetings with regulatory agencies as follows. A meeting will be held between the County, its consultants, and SFWMD to discuss the permit renewal prior to submitting the application. This meeting with SFWMD staff will be held to discuss and to review

125 S. State Road 7, Suite 104-260, Wellington, Florida 33414  
561-318-9532



final details of the application. A second meeting will be held on an ad-hoc basis to discuss the request for additional information after the application is submitted.

**SUTASK 2.5 PREPARE AND SUBMIT THE WATER USE PERMIT APPLICATION**

GMA will prepare and submit a consumptive use application to the SFWMD in support of permit renewal. The permit application report will be organized to follow the requirements of SFWMD Form 1379 along with Supplemental E and associated figures and documents required. GMA will provide the necessary impact assessment based on modeling as included in this scope as required by SFWMD permitting criteria.

**SUBTASK 2.7 REQUEST FOR ADDITIONAL INFORMATION (RAI) AND POST APPLICATION SUPPORT**

GMA will work with SFWMD to facilitate the permit review process after application submittal by answering questions and providing supplemental information as requested by SFWMD to eliminate as many outstanding issues as possible as they arise. However, due to the complexity and scale of permitting the renewal of a 20-plus year permit, a request for additional information (RAI) from SFWMD is most likely. Under this task, GMA will work with the County and its consultants to prepare and submit a response to one (1) SFWMD RAI in support of the permit application and submit a reply via ePermitting to the SFWMD.

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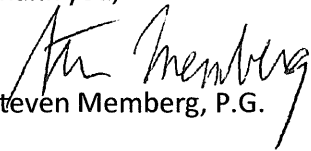
**Work and Fee Schedule**

Compensation shall be on a lump sum basis to be billed on a monthly/percentage complete basis:

Task No.	Description	Principal Hydrogeologist	Not-to-Exceed Cost
		Rate:	
2.1	Data Collection	36	\$7,646.40
2.2	Groundwater Flow Modeling	12	\$2,548.80
2.3	Water Conservation Plan	4	\$849.60
2.4	Regulatory Pre-Application Meetings	12	\$2,548.80
2.5	Prepare and Submit Water Use Permit Application	60	\$12,744.00
2.7	RAI and Post Application Support	60	\$12,744.00
Total	Hours	184	
	Cost Not to Exceed		\$39,081.60

The professional services described above will be provided not to exceed the amount above without prior approval. Billing rates are provided on the attached fee schedule. Invoices for services rendered will be submitted monthly and are payable within thirty (30) days from the date of invoice. We are prepared to begin immediately and look forward to working with County staff. If any additional clarification is needed, please contact me at 561-318-9532 or [steven@gmawater.com](mailto:steven@gmawater.com).

Thank you,

  
Steven Memberg, P.G.



SCHEDULE OF FEES AND OTHER CHARGES

TABLE 1. FEE SCHEDULE, PROFESSIONAL SERVICES <sup>1</sup>			
Title	Labor Rate	Multiplier	Hourly Rate
Principal Hydrogeologist	\$72.00	2.95	\$212.40

Note 1. Expert witness fees add 25% for hearings and depositions.

TABLE 2. SCHEDULE OF EXPENSES AND OTHER CHARGES <sup>2,3</sup>	
Item	Fee
Automobile Travel	IRS rate per mile
Other Authorized Travel Expenses	At cost
Other Contractual Services	At cost

Note 2. All travel requires pre-approval.  
Note 3. All expenses and other charges over \$100 require pre-approval.

April 19, 2021

Via Electronic Mail

Suzanne E. Mechler, PE, BCEE  
Associate, Client Service Leader  
CDM Smith  
621 N.W. 53rd Street, Suite 265  
Boca Raton, FL 33487

**RE:     *Proposal to provide Hydrogeologic Services for Palm Beach County Water Utilities Department Consumptive Use Permit Renewal Support***

JLA Geosciences, Inc. (JLA Geosciences) is pleased to have the opportunity to provide our services to CDM Smith (CDM) in assisting their client, Palm Beach County Water Utilities Department (PBCWUD) with the above referenced project.

JLA Geosciences’ scope of work shall include the following:

**Task 2       SUBTASK 2.2 Groundwater Flow Modeling** - JLA will update MODFLOW numerical models previously developed for the SAS for WTP No. 2, 3, 8 and 9 and documented in the Integrated Utility Master Plan Technical Memorandum No. 6.1 – Raw Water Planning Considerations (JLA and Tetra Tech, October 2020). Model simulations to support the requested permitted quantities will be simulated and will incorporate wellfield operating plans to simulate monthly withdrawals consistent with SFWMD permitting requirements and anticipated PBCWUD water supply demands.

Consistent with SFWMD permitting requirements, modeling scenarios will be updated to include or delete, as appropriate, existing legal users (ELUs) of the SAS whose status changed since the above-described groundwater modeling was performed in 2020. Cumulative impact scenarios 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.

WTP No. 3 groundwater model simulations will also be updated to include any additional planned recharge of the Green Cay Wetlands project. Proposed new well locations and anticipated recharge will be incorporated into simulations of the wellfield operation for impact assessment.

jlageosciences.com

The model simulations at WTP No. 2 and WTP No. 8 will include the additional allocation required for future proposed water treatment process changes.

If offsets/alternative water supplies needed for additional withdrawals above base condition (which is to be determined) are necessary, the groundwater model will be used to identify where the application of reclaim water would have the greatest influence in lessening the model simulated drawdown resulting from PBCWUD’s wellfield withdrawals.

Using the results of the impact assessments along with historical monitoring data, JLA will make recommendations for water use compliance “trigger levels” for groundwater and surface water levels within monitor wells and water bodies, respectively. SFWMD is taking a more proactive approach to monitoring and compliance data and with recently modified or renewed public water supply permits has begun incorporating groundwater and surface water levels into either permit limiting conditions or its compliance database that are intended to initiate action by the permittee, should reported water level data fall below a predetermined level.

A technical memorandum will be prepared documenting the model development, application, and impact evaluation, intended to be provided in support of the water use permit application. A draft technical memorandum will be prepared for review and comment by PBCWUD. Two (2) review meetings are assumed with CDM and PBCWUD prior to finalizing the memorandum.

Withdrawals from the Floridan Aquifer System (FAS) at WTP No. 3 and WTP No. 9 are currently permitted by the SFWMD for blending with surficial aquifer withdrawals. At this time, no increase to the currently permitted FAS allocation is anticipated. The groundwater modeling previously submitted in support of the FAS allocation meets all of the current criteria defined in the Applicant’s Handbook for Water Use Permit Applications; therefore, no additional modeling simulations are proposed for the FAS at this time.

**TIME AND MATERIALS NOT TO EXCEED SUBTASK 2.2 TOTAL** **\$ 101,600.00**

**SUBTASK 2.3 – Water Conservation Plan**

JLA will prepare a draft water conservation plan for review and comment by the PBCWUD. The plan will outline the County’s current and proposed water conservation plan elements that meet the requirements outlined in Subsection 2.3.2.F.1 of the Applicant’s Handbook for a Standard Water Conservation Plan or a Goal-Based Conservation Plan. Information will be obtained from the County where appropriate. Included in the Water Conservation Plan will be the COUNTY’s

Irrigation Ordinance.

JLA will incorporate PBCWUD’s comments into the water conservation plan for inclusion in the water use permit application to the SFWMD.

**TIME AND MATERIALS NOT TO EXCEED SUBTASK 2.4 TOTAL** **\$11,680.00**

**SUBTASK 2.4 -Regulatory Preapplication Meetings and Pre-Application Coordination**

JLA will attend up to two (2) meetings with the SFWMD, CDM, and its subconsultants. One pre-application meeting is anticipated prior to official submittal of the ePermitting application. A second meeting is anticipated to discuss a potential request for additional information (RAI) that may be issued after the application is submitted. JLA will also coordinate with CDM and its subconsultants, as necessary during the application preparation process.

**TIME AND MATERIALS NOT TO EXCEED TASK 2.5 TOTAL** **\$8,720.00**

**SUBTASK 2.7 – Request for Additional Information (RAI) and Post-Application Support**

JLA will prepare a response to RAI requests related to the groundwater modeling or conservation plan elements contained in the water use permit application. JLA will coordinate with the SFWMD, CDM, and its subconsultants as necessary to address any outstanding concerns of the SFWMD. The response will be provided for inclusion in a RAI response letter to be prepared by others. Response to technical questions in One (1) RAI letter following submittal of the permit renewal application is included.

**TIME AND MATERIALS NOT TO EXCEED TASK 2.8 TOTAL** **\$25,760.00**

**TASK 2 TIME AND MATERIALS NOT TO EXCEED FOR PROFESSIONAL SERVICES** **\$147,760.00**

**DELIVERABLES**

- Task 2.2 – Draft/Final technical memorandum; provide model files
- Task 2.3 – Draft/Final water conservation plan (PDF)
- Task 2.4 – None
- Task 2.7 – Technical Responses in Word document/email

Proposal for CDM Smith/PBCWUD

April 19, 2021

Page 4 of 4

**SCHEDULE**

It is JLA's understanding that PBCWUD intends to submit the water use permit renewal application on or before September 23, 2021. JLA will complete Tasks 1 and 2 within four (4) months of NTP. Response to RAI will be prepared within 90 days of issuance.

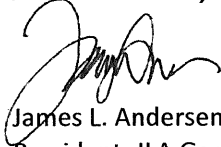
**ASSUMPTIONS**

- All JLA deliverables shall be submitted to CDM Project Manager, Suzanne Mechler, P.E.
- All meeting agendas and minutes shall be prepared by OTHERS; the scope of work outlined in this proposal includes preparation, attendance, and discussion at meetings only.

We thank you for this opportunity to provide CDM and Palm Beach County Water Utilities Department 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.

Attachments

ATTACHMENT - A  
BUDGET SUMMARY

Palm Beach County Water Utilities Department

Prime: CDM Smith, Inc.  
Consultant: JLA Geosciences, Inc.  
Project Title: Consumptive Use Permit Renewal Support  
WUD Project No.: 21-015

Task 2 - APPLICATION		Labor Classification and Hourly Rate															TASK
Sub Task No.		President	Prin. Hydro Corp. Officer	Prj. Manager Sr Hydro III	Senior Hydro II	Senior Hydro I	Hydro III	Hydro II	Hydro I	Hydro Tech	Admin / Tech	Total Labor	Mileage (\$0.58/mi)	ODC	Sub Consultant Services	TOTAL	
2.2	Groundwater Flow Modeling of the Surficial Aquifer																
	Update previously prepared MODFLOW numerical models for the SAS for WTP No. 2, 3, 8, and 9 (documented in the Integrated Utility Master Plan Technical Memorandum No. 6.1 - Raw Water Planning Considerations). Model simulations to support requested permitted quantities. Incorporate wellfield operating plans to simulate withdrawals consistent with SFWMD permitting requirements and anticipated demands. Update of model ELUs, as necessary. WTP No. 3 simulations will include any additional planned recharge of the Green Cay wetlands project and any additional proposed well locations. All wells currently listed as proposed in the WUP for WTP No. 2 will be added to the model simulations. A cumulative impact scenario will be performed to determine potential adverse impacts according to SFWMD permitting criteria. If offsets or alternative water supplies needed for additional withdrawals above base conditions are necessary, groundwater modeling will be used to identify where the application of reclaim water would best mitigate model simulated drawdown resulting from PBCWUD's wellfield withdrawals.	44	488	48	44												
	Subtotal Task 2.2	44	488	48	44	0	0	0	0	0	0	624.0	\$ -	\$ -	\$ -	\$ 101,600.00	
2.3	Water Conservation Plan																
	JLA will assist in the gathering and tabulation of data for inclusion in the water use permit application, as requested.	8	8	16	48												
	Subtotal Task 2.4	8	8	16	48	0	0	0	0	0	0	80.0	\$ -	\$ -	\$ -	\$ 11,880.00	
2.4	Regulatory Preapplication Meetings and Coordination																
	JLA will attend up to 2 meetings with the SFWMD, CDM, and its subconsultants. JLA will coordinate with CDM and its subconsultants during the application preparation process. It is anticipated that biweekly meetings may be held to discuss project status and progress.	12	12	16	16												
	Subtotal Task 2.5	12	12	16	16	0	0	0	0	0	0	56.0	\$ -	\$ -	\$ -	\$ 8,720.00	
2.7	Prepare Technical Responses to SFWMD RAI Letters																
	Address questions/comments regarding groundwater modeling results. Includes up to two (2) meetings with CDM, PBCWUD, and/or SFWMD.	24	96	16	24												
	Subtotal Task 2.8	24	96	16	24	0	0	0	0	0	0	160.0	\$ -	\$ -	\$ -	\$ 25,760.00	
	Labor Subtotal Hours	88	604	96	132	0	0	0	0	0	0						
	Labor Hourly Billing Rates	\$ 175.00	\$ 165.00	\$ 155.00	\$ 135.00	\$ 120.00	\$ 115.00	\$ 100.00	\$ 85.00	\$ 60.00	\$ 60.00						
	Labor Raw Costs	\$ 61.00	\$ 56.90	\$ 53.45	\$ 46.55	\$ 41.38	\$ 39.66	\$ 34.48	\$ 29.31	\$ 20.69	\$ 20.69						
	Labor Multiplier	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9						
	Labor SubTotal	\$ 15,400.00	\$ 99,680.00	\$ 14,880.00	\$ 17,820.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						
	Labor Total	\$147,760.00															
	Mileage/ODC	\$0.00															
	Project Total	\$147,760.00															

Mileage calculated based on current US Internal Revenue Service standard rates.



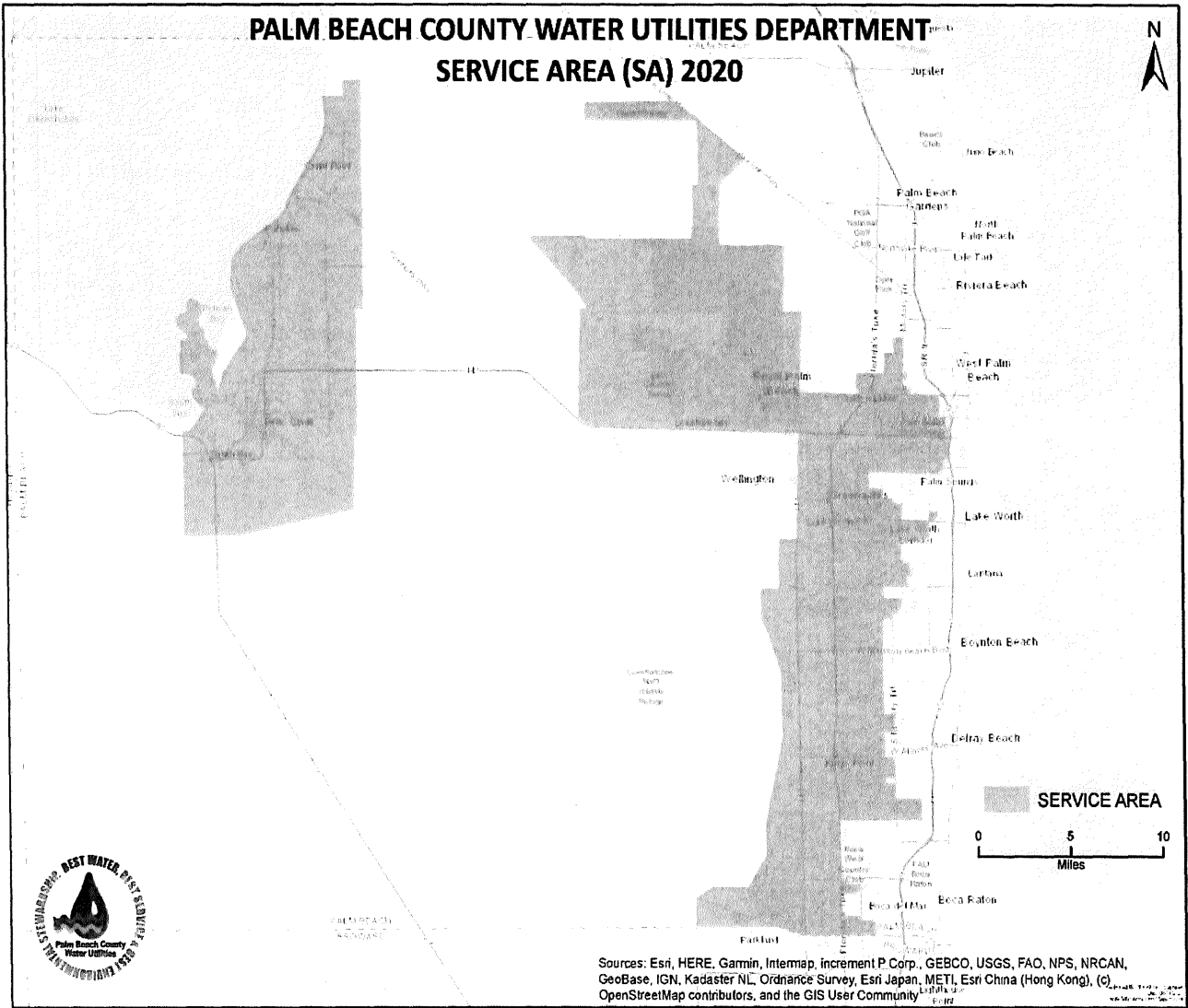
**ATTACHMENT F**  
**Palm Beach County Water Utilities Department**  
**Contract for Consulting/Professional Services**  
**Water Treatment and Water Resources Engineering Services**  
**Resolution No. R2020-1719                      Contract Dated November 17, 2020**

**SUMMARY OF  
SBE-M/WBE BUSINESS TRACKING**

	SBE:	MBE(B):
Master Contract Goals	21.00%	19.00%
Current Proposal		
Value of Authorization No. <u>06</u>	\$317,536.60	\$0.00
Value of SBE-M/WBE Letters of Intent	\$186,841.60	\$0.00
Actual Percentage	58.84%	0.00%
Signed/Approved Authorizations		
Total Value of Authorizations	\$82,364.00	\$0.00
Total Value of SBE-M/WBE Signed Subcontracts	\$35,396.00	\$0.00
Actual Percentage	42.97%	0.00%
Signed/Approved Authorizations Plus Current Proposal		
Total Value of Authorization	\$399,900.60	\$0.00
Total Value of Subcontractors & Letters of Intent	\$222,237.60	\$0.00
Actual Percentage	55.57%	0.00%

ATTACHMENT G

LOCATION MAP

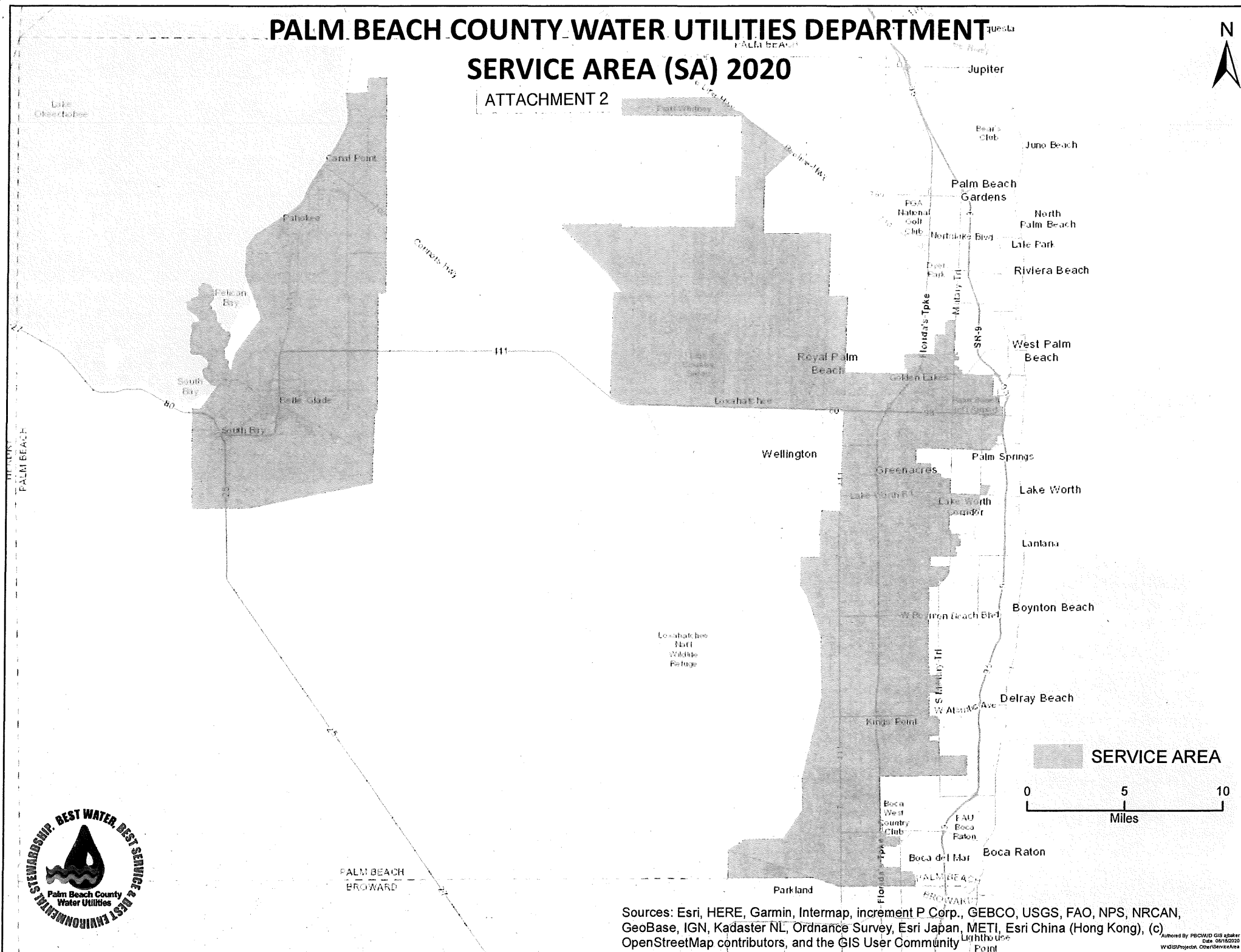


Revised 02/11/2021

# PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

## SERVICE AREA (SA) 2020

ATTACHMENT 2



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), OpenStreetMap contributors, and the GIS User Community

Authored By: PBCWUD GIS Specialist  
Date: 06/15/2020  
WUDS/Project: OpenStreetMap



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)  
12/29/2020

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

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

PRODUCER Aon Risk Services Northeast, Inc. Boston MA Office 53 State Street Suite 2201 Boston MA 02109 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122		FAX (A/C. No.): 800-363-0105
	E-MAIL ADDRESS:		
INSURED CDM Smith Inc. 75 State Street Suite 701 Boston MA 02109 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Commerce & Industry Ins Co		19410
	INSURER B: Liberty Mutual Fire Ins Co		23035
	INSURER C: Liberty Insurance Corporation		42404
	INSURER D: LM Insurance Corporation		33600
	INSURER E: ACE Property & Casualty Insurance Co.		20699
INSURER F: Lloyd's Syndicate No. 2623		AA1128623	

COVERAGES      CERTIFICATE NUMBER: 570085457598      REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
C	<div><div><input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY</div><div><input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR</div><div>GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC</div><div>OTHER:</div></div>			TB/611B8T8Z6041	01/01/2021	01/01/2022	<div>EACH OCCURRENCE \$2,000,000</div> <div>DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000</div> <div>MED EXP (Any one person) \$10,000</div> <div>PERSONAL &amp; ADV INJURY \$2,000,000</div> <div>GENERAL AGGREGATE \$4,000,000</div> <div>PRODUCTS - COMP/OP AGG \$4,000,000</div>
B	<div><div><input checked="" type="checkbox"/> AUTOMOBILE LIABILITY</div><div><div><input checked="" type="checkbox"/> ANY AUTO</div><div><input type="checkbox"/> OWNED AUTOS ONLY</div><div><input type="checkbox"/> HIRED AUTOS ONLY</div></div><div><input type="checkbox"/> SCHEDULED AUTOS</div><div><input type="checkbox"/> NON-OWNED AUTOS ONLY</div></div>			AS2-611-B8T8Z6-061	01/01/2021	01/01/2022	<div>COMBINED SINGLE LIMIT (Ea accident) \$2,000,000</div> <div>BODILY INJURY (Per person)</div> <div>BODILY INJURY (Per accident)</div> <div>PROPERTY DAMAGE (Per accident)</div>
E	<div><div><input checked="" type="checkbox"/> UMBRELLA LIAB</div><div><input checked="" type="checkbox"/> EXCESS LIAB</div><div><input type="checkbox"/> DED <input type="checkbox"/> RETENTION</div></div> <div><div><input checked="" type="checkbox"/> OCCUR</div><div><input type="checkbox"/> CLAIMS-MADE</div></div>			XEUG28194687005	01/01/2021	01/01/2022	<div>EACH OCCURRENCE \$5,000,000</div> <div>AGGREGATE \$5,000,000</div>
D	<div><div>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</div><div>ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)</div><div>If yes, describe under DESCRIPTION OF OPERATIONS below</div></div> <div><div><input type="checkbox"/> Y/N</div><div><input checked="" type="checkbox"/> N</div></div> <div>N/A</div>			<div>WA561DB8T8Z6011</div> <div>AOS</div> <div>WC5611B8T8Z6021</div> <div>WI</div>	01/01/2021	01/01/2022	<div><input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER</div> <div>E.L. EACH ACCIDENT \$1,000,000</div> <div>E.L. DISEASE-EA EMPLOYEE \$1,000,000</div> <div>E.L. DISEASE-POLICY LIMIT \$1,000,000</div>
F	<div>Archit&amp;Eng Prof</div>			<div>PSDEF2100033</div> <div>Professional/Claims Made</div>	01/01/2021	01/01/2022	<div>Each Claim \$2,000,000</div> <div>Aggregate \$3,000,000</div>

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

RE: Professional Services - Water Treatment and Water Resources Engineering Services - WUD No. 19-076R. Palm Beach County, Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents are included as Additional Insured in accordance with the policy provisions of the General Liability and Automobile Liability policies. Umbrella Liability policy is follow-form.

CERTIFICATE HOLDER	CANCELLATION
Palm Beach County Water Utilities Department Attn: Ali Bayat, P.E., PMP 8100 Forest Hill Blvd. West Palm Beach FL 33413 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE  Aon Risk Services Northeast, Inc.