

TASK ORDER No. 5

CONTINUING PROFESSIONAL SERVICES (Hydrogeological)

THIS TASK ORDER FOR CONTINUING PROFESSIONAL SERVICES ("Task Order") is made on the day of _____ between the **City of Lake Worth Beach**, a Florida municipal corporation ("City") and **Stantec Consulting Services, Inc.** a State of Florida, CORPORATION ("CONSULTANT").

1.0 Project Description:

The City desires the CONSULTANT to provide those services as identified herein for the Project. The Project is described in the CONSULTANT's Proposal, dated 5/5/2026 and services are generally described as: Replacement Dual Zone Monitoring Well (DZMW-1R) Professional Services During Construction and Testing (the "Project").

2.0 Scope

Under this Task Order, the CONSULTANT will provide the City of Lake Worth Beach professional hydrogeologic and engineering services during construction of DZMW-1R, with hydrogeological consulting services for the Project as specified in the **CONSULTANT's proposal attached hereto and incorporated herein as Exhibit "1"**.

3.0 Schedule

The services to be provided under this Task Order shall be completed within 365 calendar days from the City's approval of this Task Order or the issuance of a Notice to Proceed.

4.0 Compensation

This Task Order is issued for a lump sum, not to exceed amount of \$632,435. The attached proposal identifies all costs and expenses included in the lump sum, not to exceed amount.

5.0 Project Manager

The Project Manager for the CONSULTANT is Tim Cozart, phone 954-851-1572; email: tim.cozart@stantec.com; and, the Project Manager for the City is Vaughn Baker, phone: 561-586-1798; email: vbaker@lakeworthbeachfl.gov.

6.0 Progress Meetings

The CONSULTANT shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

7.0 Compliance with section 787.06, Florida Statutes.

By signing this Task Order before a notary public and taking an oath under the penalty of perjury, the CONSULTANT attests and warrants that the CONSULTANT does not use coercion for labor or services as defined in section 787.06, Florida Statutes (2024).

8.0 Authorization

This Task Order is issued pursuant to the Continuing Professional Services Agreement (Hydrogeological) based on RFQ#23-300 between the City of Lake Worth Beach and the CONSULTANT, dated 3/28/23, (“Agreement” hereafter). If there are any conflicts between the terms and conditions of this Task Order and the Agreement, the terms and conditions of the Agreement shall prevail.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order No. 5 as of the day and year set forth above.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____
Betty Resch, Mayor

ATTEST:

By: _____
Melissa Ann Coyne, MMC, City Clerk

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL
SUFFICIENCY

By: _____
Glen J. Torcivia, City Attorney

By: _____
Yannick Ngendahayo, Financial Services Director

CONSULTANT: STANTEC CONSULTING SERVICES, INC.

By: _____
Neil Johnson, Senior Principal, Project Manager

[Corporate Seal]

STATE OF Florida
COUNTY OF Palm Beach

THE FOREGOING instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization on this 5 day of May, 2026 by Neil Johnson, as the Senior Principal [title] of STANTEC CONSULTING SERVICES, INC. A corporation authorized to do business in the State of Florida, who is ☒ personally known to me or ☐ who has produced _____, as identification, and who did take an oath under penalty of perjury that the facts stated with regard to section 787.06, Florida Statutes, are true and correct, and that he or she is duly authorized to execute the foregoing instrument and bind STANTEC CONSULTING SERVICES, INC., to the same.

Notary Seal:



Notary Public Signature

Exhibit “1”

TASK ORDER

REPLACEMENT DUAL ZONE MONITORING WELL (DZMW-1R) PROFESSIONAL SERVICES DURING CONSTRUCTION AND TESTING

May 1, 2026

INTRODUCTION

The City of Lake Worth Beach (CITY) entered into a Professional Services Agreement with Stantec Consulting Services, Inc., (CONSULTANT) on March 28, 2023, under RFQ No. 23-300, Amendment No. 1 issued on February 9, 2026. This agreement is for CONSULTANT to provide CITY with professional hydrogeological services.

BACKGROUND

The CITY owns and operates the Water Treatment Plant (WTP) located at 301 College Street in Lake Worth Beach, Palm Beach County, Florida. The WTP site has an area of approximately 17 acres and is surrounded by residential areas. The WTP has a design capacity of 17.4 million gallons per day (MGD), split as a 12.9 MGD lime softening plant and a 4.5 MGD reverse osmosis (RO) facility. The Consumptive Use Permit has an annual allocation of 4,106 million gallons (MG).

The WTP site consists of injection well (IW-1) that has a maximum injection rate of 4.176 MGD with a maximum wellhead pressure of 104 pounds per square inch (psi) and associated dual-zone DZMW-1. The injection well (IW-1) and associated dual zone monitoring well (DZMW-1) comprise the Class I injection well (IW) system. The purpose of Injection Well (IW-1) is to dispose of non-hazardous membrane concentrate from the reverse osmosis water treatment processes. The purpose of DZMW-1R will be to monitor the ground water quality and hydraulic head simultaneously in both the Upper Monitoring Zone (UMZ) and Lower Monitoring Zone (LMZ). The current operating Florida Department of Environmental Protection (FDEP) Underground Injection Control (UIC), Permit No. 0297969-005-UO/1X, has an expiration date of September 19, 2029.

The existing DZMW-1 is a telescopic designed well with a TD of approximately 1,942 feet below land surface (bls). The DZMW-1 was constructed using four steel casings (52-inch OD, 36-inch OD, 26-inch OD, and 16-inch OD) and one 6.625-inch OD Red Box 1250 FRP tubing, each installed to isolate and protect each zone or aquifer system encountered as the well was drilled to depth. The UMZ interval between 1,688 feet and 1,717 feet bls is positioned just below the base of the underground source of drinking water (USDW). The LMZ interval between 1,909 feet and 1,942 feet bls is positioned in the lowermost permeable unit above the injection zone confinement and below the base of USDW. The existing DZMW-1 will continue to function as the associated DZMW to IW-1 until DZMW-1R has been constructed, tested, and monitoring begins. After six months of monitoring, the CITY will apply for the plugging and abandonment (P&A) of DZMW-1.

The CITY applied for a Class I Well Construction Permit Application and received authorization from FDEP UIC to construct and test DZMW-1R that will replace the existing DZMW-1 at the WTP under permit number 0297969-006-UC/EM. The CITY DZMW-1R is designed and will be constructed in accordance with Florida Administrative Code (F.A.C.) Rule 62-528. Replacement dual-zone monitor well DZMW-1R will be constructed with an UMZ from 1,400 feet to 1,500 feet bls and a LMZ from 1,900 to 1,950 feet bls.

The purpose of this scope of services is to provide the CITY with professional engineering and hydrogeological services during the construction of a replacement dual-zone monitoring well (DZMW-1R).

SCOPE OF WORK

CONSULTANT will provide professional hydrogeologic and engineering services during construction and oversight for the replacement dual zone monitoring well (DZMW-1R). These services consist of the following tasks, described in greater detail herein.

1. Project Management, Meetings, and QA/QC
2. Engineering Services During Construction (ESDC)
3. Hydrogeologic Field Services
4. Draft and Final Construction and Testing Report
5. Allowance

TASK 1.0 – Project Management, Meetings, and QA/QC

Stantec will provide overall coordination, management, and QA/QC for the tasks to be performed under this work authorization. The coordination shall consist of tracking the budget and deliverables, and monitoring project progress.

The Project Manager is involved with the everyday operations of the project and has routine interaction with the CITY Project Manager. Project management activities include management and staffing, budget management, schedule management, quality management, project correspondence, and coordination with the CITY permitting project as necessary throughout the duration of the project.

The CONSULTANT will provide monthly status reports that include work completed during the current period, work planned for the next period, completed meetings and status of meeting minutes, planned meetings for the next period, and a summary milestone schedule of the next three months of activities including deliverables and meetings involving the CITY or regulatory agencies. Key decisions will be tracked in a decision log and incorporated into the monthly status report documenting key decisions from the current month. The CONSULTANT will provide project meeting agendas and meeting minutes.

Deliverables:

- 1.1 Project Manager activities, monthly progress reports with an updated schedule and milestones will be prepared and provided by the CONSULTANT.
- 1.2 Project Manager activities, meeting agendas, and meeting minutes will be prepared and provided by the CONSULTANT.

TASK 2.0 – Engineering Services During Construction (ESDC)

The CONSULTANT will provide engineering and hydrogeologic services during construction activities associated with drilling and testing the dual-zone monitoring well (DZMW-1R). Throughout the construction phase, the CONSULTANT will provide technical interpretations of the Contract Documents, guidance to the CONTRACTOR and field personnel, determine appropriate courses of action related to field conditions, and communicate relevant technical matters to the CITY and CONTRACTOR. The CONSULTANT will monitor construction activities for general conformance with the Contract Documents, specifications, and the FDEP UIC Construction Permit No. 0297969-006-UC/EM.

The CONSULTANT will receive, review, and respond to CONTRACTOR submittals and Requests for Information (RFIs). Submittals will be reviewed for general conformance with the design concept of the project and compliance with the Contract Documents

The CONSULTANT will review pay applications submitted by the CONTRACTOR and provide recommendations to the CITY based on observed construction progress, available project documentation, and coordination with field personnel.

The CONSULTANT will evaluate change order requests and deviations from the approved design or specifications and will provide interpretation of the Contract Documents, as necessary, pertaining to the hydrogeologic execution and progress of the work. The CONSULTANT will assist the CITY with negotiation and coordination of change orders.

The CONSULTANT will attend substantial completion inspections, provide input for development of the punch list, and verify completion of outstanding items. Upon completion of the Work, the CONSULTANT will provide a recommendation to the CITY regarding final completion.

The CONSULTANT will review CONTRACTOR provided as-built drawings, metes and bounds survey, and prepare record drawings documenting the final construction configuration of DZMW-1R.

Deliverable(s):

- 2.1 As-needed written technical interpretations and clarifications.
- 2.2 Review shop drawings and submittals.
- 2.3 Review and respond to RFIs.
- 2.4 Review Pay applications.
- 2.5 Change order evaluations, negotiations, and supporting documentation.
- 2.6 Substantial completion inspection participation and punch list input.
- 2.7 Review of as-built drawings, metes and bounds survey, and preparation of record drawings.

TASK 3.0 – Hydrogeological Field Services

During the construction and testing period, CONSULTANT will provide a field technician, hydrogeologist, or engineer (Field Representative) during construction of DZMW-1R. These services will include critical phase during DZMW-1R construction, which includes pilot-hole drilling, water quality sampling, packer testing, casing setting, casing cementing, and associated testing. It is anticipated that full-time field services will not be needed during mobilization/demobilization, borehole reaming, DZMW-1R pad and wellhead construction.

The Field Representative will maintain a daily record of DZMW-1R construction and testing activities and provide weekly summaries for submittal to the FDEP. The field representative will be available at the site to monitor the CONTRACTOR's collection of data required under the conditions of the UIC permit and monitor conformance with the intent of the technical specifications and drawings. The field services will include up to 12 hours per day, five days per week. Weekend work may be necessary during casing setting events and cementing activities.

The Field Representative will provide technical guidance for the drawings, specifications, and Contract Documents and evaluate deviations and material substitutions from the drawings and specifications. The Field Representative will provide inspection and documentation of the completed work.

The Field Representative will perform oversight of well construction specifics such as casing setting depths, cement calculations, fluid properties, borehole conditions, deviation surveys, and other well construction

data as required in the Contract Specifications. The Field Representative will communicate as necessary with the project team for relevant matters. The CONSULTANT shall prepare daily field logs and weekly summary reports outlining work completed during the period along with water quality data collected from the pad monitoring wells, and during the construction of DZMW-1R, geologic and geophysical logs, and casing pressure tests. These construction activities will be summarized and submittal in a weekly construction summary report to FDEP UIC. In addition, the CONSULTANT shall prepare casing seat requests and submit them to FDEP UIC for approval.

The Field Representative will also be responsible for formation sample identification and cataloging, and daily record keeping. The Field Representative will assist the CONSULTANT to prepare weekly summary reports, casing seat justification letters, or additional reporting that may occur for submittal to the FDEP during well construction.

The Field Representative will oversee well drilling activities, well testing, including water quality sampling, packer testing, geophysical logging, water level monitoring, well control status, Mechanical Integrity Testing (MIT), and testing as required by FDEP UIC.

TASK 4.0 – Draft and Final Well Construction and Testing Report

Following completion of DZMW-1R, CONSULTANT will prepare a Certification of Completion (COC) of construction and engineering final report summarizing the drilling activities and results of testing. After review by the CITY, these documents will be submitted to FDEP.

CONSULTANT shall prepare a report that summarizes the results of drilling, logging, test outcomes, and construction details. This report will include the driller's and field representative's weekly reports, meeting summaries, and relevant correspondence. It will compile lithologic logs, deviation surveys, water quality data, casing and cement quantities, pressure tests, geophysical logs, packer and pumping tests, injection tests, and other technical data gathered during the construction phase. The report will be delivered electronically as a PDF. One draft and one final report will be submitted to the CITY, the final report will be submitted to FDEP. It is anticipated that the draft report will be submitted three months following final completion of DZMW-1R as per FDEP UIC construction permit. The CITY will provide comments on the report within two weeks of receipt of the draft report. The final report will be submitted one month following receipt of the comments from the CITY.

Deliverable(s):

- 4.1 Draft Well Construction and Testing Final Report.
- 4.2 Final Well Construction and Testing Final Report.

TASK 5.0 – Allowance

Expenses anticipated to be incurred by the Consultant and Consultant's subconsultants in the interest of the Project, including travel, housing, reproduction, renderings, and other costs customarily associated with construction phase services, shall be considered included within the Consultant's expenses lump sum fee. No separate reimbursement for expenses will be made unless the project is extended beyond the original construction duration. The lump sum fee is intended to cover all costs necessary for the Consultant to fulfill the scope of services during the construction phase.

ASSUMPTIONS

Please note that this Scope of Work is based on the following assumptions:

- The CONSULTANT reserves the right to use available, qualified personnel to complete the tasks under this scope of work.
- Tasks 1, 2, 3, and 4 are based upon up to five-month construction duration. Construction and testing services beyond five months may require a contract amendment.
- Meetings during construction with the CITY, the CONTRACTOR, and others, are assumed to be weekly for the first month, bi-weekly thereafter, for a total of up to twelve meetings, up to three specialty meetings with outside entities and agencies, plus two final inspection/project close-out meetings to review the progress of the Project and final close-out documents.
- For budgeting purposes:
 - Three RFI responses;
 - Twenty-five shop drawings and submittals;
 - Three requests for proposals;
 - Three change orders; and
 - Six pay applications have been assumed.
- Construction of DZMW-1R will be completed in 110 working days over a five-month period for 12 hours per day, five days per week. Should additional field and reporting services be required beyond the budget construction period, the CONSULTANT will submit a proposal to the CITY to utilize the Allowance budget prior to performing the work.

EXCLUSIONS

Please note that CONSULTANT has not included costs for the following tasks:

- Full time construction management services.
- Permitting and Regulatory applications and fees.
- Additional laboratory collection and analytical costs.
- Additional surveying.

The above services may be added to this Scope of Work by amendment and mutual agreement.

OBLIGATIONS OF THE CITY

This scope of services, level of effort, and fee development is based on the timely provision of the following:

- Make available to CONSULTANT any pertinent documentation concerning this project.
- Provide a CITY Project Manager as a point of contact for coordination.
- Review CONSULTANT submittals and provide consolidated comments within two weeks of receipt.
- CITY comments and input on submittals will be provided to the CONSULTANT's Project Manager. Any differences between the CITY's staff will be addressed by the CITY Project Manager.
- Provide the CONSULTANT staff with access to the DZMW-1R construction site during the duration of the project.

DELIVERABLE/TASK SCHEDULE

DZMW-1R construction will be completed over a five-month period contingent on the requirements stated in the FDEP's UIC Class I Rule 62-528.900, F.A.C. An additional 4.5 months will be required to complete the construction and testing report including the draft and final report. Project management, meetings and QA/QC activities will be conducted from the beginning to end of the project. CONSULTANT will deliver or complete the below deliverables/tasks by the duration indicated in **Table 1**:

Table 1: General Schedule

Task	Task Description	Weeks From NTP
1.0	Project Management, Meetings, and QA/QC	40 weeks
2.0	Engineering Services During Construction (ESDC)	36 weeks
3.0	Hydrogeologic Field Services	26 weeks
4.0	Draft and Final Well Construction and Testing Report	38 weeks
5.0	Allowance	26 weeks

COMPENSATION

The CITY shall pay the CONSULTANT a fixed fee of **\$632,435** for providing the services described in the scope of work. The work shall be completed and compensated in accordance with the CONSULTANTS fee table (**Table 2**). **Table 3** below provides the fixed fee cost for the project management, construction and testing services, and report preparations services. Invoices will be submitted monthly based on a percentage of completion of services per task.

Table 2. CONSULTANTS Rate Schedule (February 9, 2026)

	TITLE	MAX HOURLY RATE
1	Company Officer / Technical Expert	\$ 285
2	Principal	\$ 265
3	Senior Project Manager	\$ 240
4	Sr. Hydrogeologist	\$ 235
5	Technical Lead	\$ 235
6	Project Manager	\$ 220
7	Senior Engineer	\$ 220
8	Sr. Scientist	\$ 215
9	Hydrogeologist - Field	\$ 205
10	Project Engineer	\$ 195
11	Sr. Field Representative	\$ 185
12	Environmental Scientist	\$ 195
13	Project Designer (BIM / Civil 3D)	\$ 195
14	Field Representative	\$ 155
15	Sr. CADD Designer	\$ 165
16	CADD Drafter	\$ 135
17	Clerical / Administrative	\$ 115

Table 3. CONSULTANTS Fee Table

Task	Task Description	Fee
1.0	Project Management, Meetings, and QA/QC	\$54,660
2.0	Engineering Services During Construction (ESDC)	\$158,680
3.0	Hydrogeological Field Services	\$291,495
4.0	Draft and Final Well Construction and Testing Report	\$27,600
	Subtotal	\$532,435
5.0	Allowance	\$100,000
	Total	\$632,435