



August 4, 2026

Ms. Sonia Iszler
Engineering and Operations Manager
City of Marco Island Water and Sewer Department
50 Bald Eagle Drive
Marco Island, FL 34145

**RE: Proposal for Hydrogeological Services for Well RO-4 Development and Testing
City of Marco Island Water and Sewer Department, Marco Island, Florida**

Dear Ms. Iszler:

Apex Companies, LLC by and through its wholly owned subsidiary Water Science Associates, LLC (Apex) is pleased to submit this letter proposal for professional hydrogeological services for the development and testing of the City's Reverse Osmosis (RO) water supply Well RO-4 located on Lily Court which is accessed from South Heathwood Drive in Marco Island, Collier County, Florida. The purpose of the well development and testing will be to attempt to remove problematic sand from this well.

Project Understanding

These proposed services come after an Apex Technical Memorandum issued to the City on June 1, 2026, detailing the geophysical logging and video survey investigation of the sand production at RO-4 in April 2026. Apex identified a source of sand from an enlarged opening of the open hole between 524 and 528 feet bpl and two other potential sources of sand from conduits at approximately 432 and 428 feet bpl. The largest source of flow to the borehole likely corresponds to the conduits observed at 432 and 428 feet bpl based on geophysical logging. A critical source of flow was demonstrated as originating in the large void zone between 524 and 528 feet bpl.

Scope of Services

The scope of our proposed services includes subcontracting with a qualified licensed water well contractor to remove the City's wellhead and install a temporary development wellhead, install an educator pipe and airline, set up discharge settling system and connect effluent to wet well discharge, conduct suction airlifting at the bottom of the borehole and at higher depths, conduct an additional 16 hours of suction airlifting, remove educator pipe and airline, install direct airlift header assembly and conduct surged direct airlifting for a minimum of 24 hours, remove airlift piping and install a minimum 600 gallons per minute (gpm) submersible test pump and motor and conduct 6 hour step-drawdown testing with Rossum sand sampling, and remove test pump and perform disinfection.



Task 1. Well Development and Testing Plan – Apex will prepare a well development and testing plan to facilitate completion of the scope of work in the most efficient way possible. The development and testing plan will include a step-by-step detailed and specific procedure for conducting the well development and testing of RO-4 which will include required equipment and setup, proper testing procedures, and sampling criteria. The plan will also include the required water management system for sand settling and disposal via the City's deep injection well pumping station at the South RO plant. Apex will coordinate with our subcontractor to ensure that the plan is understood and agreed upon prior to beginning the scope of work.

Task 1 Lump Sum: \$1,000.00

Task 2. Well Development and Testing – Apex will coordinate with the City and our subcontractor to access the well and to conduct well development activities according to the scope of work. These activities will include the removal of the wellhead, controlling artesian flow, completing development activities, installing test pump and pumping equipment, and disinfection of the well before demobilization. Note that the scope does not include installation of City owned pumping equipment which will be replaced by the City.

Task 2 Lump Sum: \$96,100.00

Task 3. Field Oversight – Apex will provide qualified field staff to direct and oversee the well development operations by our subcontractor. We will coordinate with the City and the subcontracted drilling firm to complete the proposed work in the most efficient way possible while minimizing inconveniences and disturbances to the City's operations staff and nearby residents. Apex anticipates up to two weeks to complete the development and testing activities.

Task 3 Lump Sum: \$35,000.00

Total for Task 1-3 Lump Sum: \$132,100.00

Invoices will be issued to the Client on a monthly basis and will be based upon percentage complete per lump sum task identified above. The compensation indicated above is based on an estimate of the character and extent of work involved. Unforeseen conditions, which become evident during the course of the work, may alter or increase the effort required. The amount will not be exceeded without written amendment between the Client and Apex.

Project Schedule

The proposed fee and effort are based upon Apex's best faith effort to fully understand the needs of this proposal. If the scope of the services to be rendered is changed materially or if the period of time required to render services hereunder is extended beyond the completion dates proposed, the amount of compensation provided shall be adjusted appropriately (if required), upon approval of the Client and Apex. If project delays outside of Apex's control cause the completion date to extend



substantially, additional compensation may be requested through a written amendment to account for additional coordination time.

Acceptance

We look forward to working with you on this important project. We would be pleased to discuss the scope of services and this proposal with you. Please find attached our cost breakdown of labor and costs for the services we are proposing for the development and testing of Well RO-4.

Apex is ready to begin work upon receipt of a signed proposal or a PO. Please feel free to contact Joshua Messenger or Andy McThenia with any questions or concerns.

Sincerely,

Joshua Messenger, PG
Project Manager/Senior Hydrogeologist
P: 508.789.0624
E: joshua.messenger@apexc.com

Andy McThenia, PG
Senior Project Manager
P: 239.529.4396
E: andy.mcthenia@apexc.com

Attachment:
Contracted Billing Rates

This Proposal is subject to, and the Services hereunder shall be performed in accordance with, the terms and provisions of that certain Agreement of Master Terms and Conditions with an Effective Date of **October 15, 2020**, by and between the **City of Marco Island and Water Science Associate, Inc.**

(A signed copy of this proposal must be received by Apex prior to the commencement of work. A scanned copy is acceptable but must be followed by the original.)

SUBMITTED BY:

Signature: _____

Name: _____

Title: _____

Date: _____

ACCEPTED FOR CLIENT BY:

Signature: _____

Name: _____

Title: _____

Date: _____



CITY OF MARCO ISLAND

50 Bald Eagle Drive
Marco Island, Florida 34145
(239) 389-5000

July 26, 2023

Water Science Associates, Inc.
13620 Metropolis Ave Ste 110
Fort Myers, FL 33912

Re: Extension of Contract 2020-020 Professional Services Library: Water and Wastewater Engineering

Dear Mr. Martin,

It is my pleasure to inform you that Water Science Associates, Inc. has been recommended for renewal of Contract 2020-020 for an additional 3-year term. If you agree to this renewal, please sign below. If you do not wish to renew, please provide an explanation for your decision.

The City of Marco Island is looking forward to the continuation of our relationship with your firm.

☒ Yes, please renew this contract.

☒ Attached is the new billing rates for the period October 15, 2023 to October 15, 2026.

☐ Please use the existing rates until October 15, 2026.

☐ No, we do not wish to renew

W. K. Martin
Signature and date

8/8/23

PRESIDENT

Title

Renewal is contingent upon the mutual agreement to any new rates as may be proposed and approval of those changes by the City Manager.

Sincerely,

Angela R. Johenning
Purchasing and Risk Manager
City of Marco Island
Tel. (239) 389-5011
AJohenning@cityofmarcoisland.com