

**(TO) TASK ORDER AMENDMENT TO CSC AGREEMENT
(PROFESSIONAL CCNA SERVICES)**

Clerk Tracking No. 15-00180

THIS TASK ORDER AMENDMENT (the "Amendment") to the (CSC) Continuing Services Contract for Professional CCNA Services is made and entered into effective the 23rd **day of October 2015**, by and between the **CITY OF NAPLES**, a Florida Municipal Corporation (the "City"), and **HAZEN AND SAWYER P.C.**, a Foreign Profit Corporation (the Consultant").

WHEREAS, the City and the Consultant entered into that certain Agreement to furnish CCNA Services, on **April 29, 2015** (the "Original Agreement") (Reference Original **RFQ 14-054** and Original Clerk Tracking No. **15-00074**. This **Task Order Amendment** is for Services associated with **ASR Test Well Design and Permitting Assistance: Task Order No. 16-01-20-33-16K53**: ('Project'); and

WHEREAS, the parties desire to amend the Original Agreement by this Task Order Amendment so that the Consultant will provide said services pursuant to the terms and conditions contained in the Original Agreement and Amendment herein.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and in consideration of the mutual covenants, promises and conditions herein set forth, it is hereby acknowledged and agreed as follows:

1. The above recitals are true and correct and are incorporated herein by this Reference.
2. "Article Three, Time" is amended to state that this Project Task Order Amendment will be **performed and completed by September 30, 2016** from the issuance of a City of Naples Notice-to-Proceed **with a 30-day Project Close-Out** time frame from the completion date. Project: **ASR Test Well Design and Permitting Assistance**.
3. "Article Four, Compensation" is amended to reflect an increase to the Consultant for this Task Order Amendment in the amount of **\$21,540.00** for the Project as indicated in **Attachment A-1 Scope of Services and Basis of Compensation**, attached and made a part of this Amendment.
4. All other terms, provisions and conditions of the Original Agreement, except as expressly amended and modified by this Amendment, shall remain in full force and effect.
5. This Amendment may be executed in any number of counterparts, each of which shall be deemed to be an original as against any part whose signature appears thereon and all of which shall together constitute one and the same instrument.

IN WITNESS WHEREOF, the City and the Consultant have caused this Task Order Amendment to be duly executed by their duly authorized officers, all as of the day and year first above written.

ATTEST:

By: *Patricia L. Rambosk*
Patricia L. Rambosk, City Clerk



CITY:

CITY OF NAPLES, FLORIDA

By: *A. William Moss*
A. William Moss, City Manager

Approved as to form and legal sufficiency:

By: *Robert D. Pritt*
Robert D. Pritt, City Attorney

CONSULTANT:

HAZEN AND SAWYER, P.C.
2101 NW Corporate Boulevard, Suite 301
Boca Raton, Florida 33431
Att: **Albert Muniz, P.E.**, Vice President

By: *Albert Muniz*
(Signature)

Kurt Pfeiffer
Witness (Signature)

Printed
Name: *KURT PFEIFFER*

Printed
Name: *Albert Muniz*

Title: *Vice President*

FEI/EIN Number: On File
A Foreign Profit Corporation (NY)

Hazen

Hazen and Sawyer
919 Lake Baldwin Lane, Suite A, Orlando, FL 32814

To: CITY OF NAPLES

Purchasing and Contracts Manager

Address: 735 8TH Street South

Naples, FL 34102

Attention: Jed Secory, MBA / CPPO / CPCP / PPP

Date: October 22, 2015

Job: City of Naples Lower Hawthorn ASR Test

Well Design and Permitting Assistance

We Are Sending You: Herewith Under Separate Cover
 Reports Tracings Prints
 Shop Drawings Specifications
 Samples Contracts Other

Sent By: Blue Printer Hold for Pickup
 Hand Delivered Mail
 UPS Federal Express

No.	DATE	DESCRIPTION
1	10-22-15	Signed contract (original)

Remarks: _____

Transmitted:
 At Your Request
 For Your Information
 For Your Comments
 For Your Approval
 For Distribution
 For Correction
 Furnish as Submitted
 Furnish as Corrected
 Revise and Resubmit

Copies to:
Bob Middleton / Naples

Very truly yours,
HAZEN AND SAWYER

File: 43201-000.1.0

By: Albert Muniz, P.E

**City of Naples
City Task Order No. 2**

**Hazen and Sawyer Project No.: 43201-001
Lower Hawthorn ASR Test Well Design and Permitting Assistance**

October 8, 2015

OVERVIEW

The City of Naples City Council (hereinafter CITY) requested that Hazen and Sawyer, P.C. (hereinafter HAZEN) assist the City with engineering services for expansion of their reclaimed water / surface water aquifer storage and recovery (ASR) system. Work described herein is related to testing of the Lower Hawthorn zone as a viable horizon for storage of reclaimed water. More specifically, the work will consist of design of an ASR test well and associated permitting. The purpose of the ASR test well is to continue to seek opportunities to further optimize the current ASR program by use of a zone that contains hydrogeologic properties beneficial to storage and recovery.

The ASR system is an integral part of the City's Water Use Permit (WUP) and is a requirement by the South Florida Water Management District (District) as an element of the permit to assist the City in addressing irrigation demands. Benefits of the optimizing the ASR concept include expansion of the reuse system and minimizing surface water discharge to sensitive areas such as Naples Bay and Gordon River. This project is consistent with the City's overall integrated water management plan and is supported by both the Florida Department of Environmental Protection (FDEP) and the Big Cypress Basin and South Florida Water Management District (District).

To date, the City has constructed an ASR wellfield to provide storage of excess reclaimed water and surface water in an effort to maximize beneficial use of fresh water resource to meet irrigation demands. Existing facilities targeted a storage zone below potential sources of drinking water (USDW) as defined by the Florida Department of Environmental Protection (FDEP). While successful, the City desires to seek options to continue to improve water quality of stored fluids. Maximizing recovery will enable the City to meet their expanding reclaimed water demands.

An option to improve water quality is to utilize the Lower Hawthorn, which contains brackish water, but is shallower and contains better quality water. While brackish, the native water quality of the Lower Hawthorn is nearly three times better than the existing storage zone and has more favorable aquifer characteristics related to confinement. The Lower Hawthorn is not used in the immediate vicinity of the City's water reclamation facility for raw water supply purposes. Use of storage horizons shallower than the USDW are now possible due to development of the ASR concept with relation to recovered water quality.

SCOPE OF SERVICES

TASK 1 – Design of ASR Test Well

HAZEN will design an ASR Test Well to be completed into the Lower Hawthorn. Contract documents will be prepared for bidding purposes and in support of a UIC test/construction permit from the FDEP. The

contract documents will include a bid sheet, technical specifications, and drawings. It is assumed that the CITY will provide the front end documents.

The ASR Test Well will be located on NW 3rd Avenue North, which is owned City property. It is assumed that the ASR Test Well will consist of casing (approximately 12-inch diameter) will be set around 640 feet below land surface and be completed with an open hole to an approximate depth of 740 feet. The design will include provisions for disposal of drilling fluids after proper settling to the on-site stormwater storage ponds as has been used during construction of the previous three ASR wells. The purpose of this well will be to allow the CITY to conduct short-term cycles in an effort to collect data to assess the overall performance of using the Lower Hawthorn zone. The cycle testing is assumed to consist two short-term tests using the ASR Test Well. Two 30 million gallons recharge cycles would be performed as part of the preliminary testing, with Cycle 1 recovering approximately 15 million gallons and Cycle 2 recovering approximately 20 million gallons. The cycle test data will also be used in support of a future task order which will include permitting for development of the Lower Hawthorn storage zone.

A draft set of contract documents prepared by HAZEN will be submitted to the CITY for review. Accompanying the contract documents will be an anticipated construction schedule and a cost estimate for the ASR Test Well. PDF copies of the plan will be distributed to the CITY for review.

A meeting will be scheduled within two weeks of submittal of the draft documents to the CITY. The purpose of the meeting will be to obtain comments from the CITY with respect to the drilling and testing plan. Meeting minutes will be prepared and distributed to summarize discussions of the meeting. Comments received from CITY during review of the draft contract documents will be incorporated and a final version of the contract documents will be prepared and submitted to the CITY for use in bidding. It is assumed that native and PDF versions of the contract documents will be submitted to the CITY.

Deliverables:

- 1.1 Draft set of contract documents for construction and testing of the ASR Test Well
- 1.2 Meeting minutes from review of draft contract documents
- 1.3 Final set of contract documents

TASK 2 – Permitting Assistance for ASR Test Well

HAZEN will prepare, using the design from Task 1, a permit application for the construction and testing of a Lower Hawthorn ASR Test Well. The permit (i.e., Class V permit) will use area of review data from the recently completed operational testing data and as discussed with the FDEP. The permit application will request permission to conduct two short cycles upon completion of the test well. The permit application will also note that it is the intention of the CITY to convert this well into an ASR well should testing be favorable.

A draft copy of the permit application will be submitted to the CITY for review in both native and PDF format for review by the CITY.

A meeting will be scheduled within two weeks of submittal of the draft permit application to the CITY. The purpose of the meeting will be to obtain comments from the CITY with respect to the drilling and testing plan and monitoring requirements. Meeting minutes will be prepared and distributed to summarize discussions of the meeting. Comments received from CITY during review of the draft permit application will be incorporated and a final version of the permit application will be prepared and submitted to the CITY

for submittal to the FDEP. It is assumed that native and PDF versions of the contract documents will be submitted to the CITY.

Deliverables:

- 2.1 Draft permit application
- 2.2 Meeting notes
- 2.3 Final permit application

COMPENSATION

Compensation for the above services will be lump sum and billed on a percent complete basis for the tasks shown below:

Task	Description	Estimated Cost
1	Design of ASR Test Well	\$10,400.00
2	Permitting Assistance for ASR Test Well	\$11,140.00
	Total Cost	\$21,540.00

The total cost for services for this package will not exceed **\$21,540.00** without formally amending the Scope of Work.

SCHEDULE

The schedule for the proposed services is presented below:

Task	Description	Estimated weeks from NTP
1	Design of ASR Test Well	12-15
2	Permitting Assistance for ASR Test Well	16-24
	Total	~ 16-24

NTP = Notice to proceed

A list of project assumptions is presented below:

- 1) Project duration is estimated to be 16 weeks.
- 2) The City shall provide written comments within two weeks of submittal of document.
- 3) The City will pay for all permit fees, if applicable.
- 4) The CITY will prepare the front end document for the Contract Documents
- 5) The CITY will provide and install all equipment and materials necessary for connection to and from the ASR Test Well.
- 6) The City will be provided with four (4) hard copies of draft documents in addition to electronic copies.
- 7) The City will be provided with ten (10) copies of final documents in addition to electronic copies.
- 8) HAZEN will not proceed with work above the level of effort estimated in the attached fee schedule without prior approval from the City. Fee is based on level of effort shown in fee schedule.