

**PUBLIC WORKS DEPARTMENT MEMORANDUM
#17-2020**

DATE: May 18, 2020

TO: Honorable Mayor Meredith Leighty and City Council Members

THROUGH: Heather Geyer, City Manager *hmg*

FROM: Kent Kisselman, PE – Director of Public Works *FAK*
Tamara Moon – Environmental Division Manager

SUBJECT: CR-91 – Aquifer Storage and Recovery Feasibility Study Contract Amendment

PURPOSE

Staff is seeking approval of an amendment to the current contract with HRS Water Consultants for the completion of an aquifer storage and recovery (ASR) feasibility study. This addendum will accept an increase of \$15,432.00 to allow for water quality testing and well repair recommendations not defined in the initial scope of work but necessary to complete the feasibility study.

BACKGROUND

In 2019, Northglenn initiated a feasibility study to determine if aquifer storage and recovery could be used to provide additional water supply storage necessary to meet Northglenn's water demand. Northglenn owns a series of deep wells in the Laramie Fox Hill and Arapahoe aquifers which historically have been used for augmentation. The study's goal was to assess if it is feasible and cost effective to retrofit or re-drill these deep wells and use them for ASR.

Unfortunately, as the ASR feasibility study progressed, it was discovered that these wells have not been consistently maintained or used and have fallen into disrepair. Water quality data necessary to perform analysis for the feasibility study was insufficient or non-existent. In order to proceed with the feasibility study, significant additional water quality testing and analysis was performed and sub-contracted through HRS. While collecting samples and data for the water quality study, HRS also noted the condition and repair needs for each well, as part of the original scope of work. Both the deep well water quality data and the well repair recommendations will be useful in the ongoing management and use of these wells regardless of whether or not an ASR system is ultimately built. The water quality and well condition data collected during this feasibility study, will be used in the future, to develop plans for a pilot study to determine if ASR is a practical option for increasing the city's water storage options.

A full description of the contract scope and compensation changes are included as Exhibit A to the contract amendment.

STAFF RECOMMENDATION

Attached to this memorandum is CR-91, a resolution that, if approved, would authorize the Mayor to execute Addendum #1 between the City of Northglenn and HRS Water Consultants for the Aquifer Storage and Recovery Feasibility Study in an amount not to exceed \$15,432.00. Staff recommends approval of CR-91.

BUDGET/TIME IMPLICATIONS

The original contract for HRS Water Consultants was in the amount of \$119,550.00. Funds are available in the Water Resources/Property Rights budget which can be used to support development of new water storage or supply.

2020 Amended Budget	\$1,614,705.00
2020 YTD Expenses	(119,080.84)
Water Rights Agreements	(\$1,268,000.00)
Element Addendum	(\$40,000.00)
HRS Addendum	(\$15,432.00)
Budget Remaining	\$172,192.16

STAFF REFERENCE

If Council members have any comments or questions they may contact Kent Kisselman, Director of Public Works, at 303.450.4005, kkisselman@northglenn.org.

CR-91 – Aquifer Storage and Recovery Feasibility Study Contract
Addendum #1 to the HRS Water Consultants Contract

SPONSORED BY: MAYOR LEIGHTY

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-91
Series of 2020

Series of 2020

A RESOLUTION APPROVING ADDENDUM NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF NORTHGLENN AND HRS WATER CONSULTANTS, INC. FOR THE AQUIFER STORAGE AND RECOVERY FEASIBILITY STUDY

WHEREAS, the City of Northglenn entered into a Professional Services Agreement with HRS Water Consultants, Inc. on April 22, 2019 for consulting services for the Aquifer Storage and Recovery Feasibility Study; and

WHEREAS, the parties desire to supplement the Agreement with an Addendum No. 1 to allow for an additional scope of services for the project.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1. Addendum No. 1 to the Professional Services Agreement between the City of Northglenn and HRS Water Consultants, Inc., attached hereto, in an amount not to exceed \$15,432.00 for the Aquifer Storage and Recovery Feasibility Study is hereby approved and the Mayor is authorized to execute same on behalf of the City of Northglenn.

DATED, at Northglenn, Colorado, this _____ day of _____, 2020.

MEREDITH LEIGHTY
Mayor

ATTEST:

JOHANNA SMALL, CMC
City Clerk

APPROVED AS TO FORM:

COREY Y. HOFFMANN
City Attorney

ADDENDUM #1 TO AGREEMENT FOR PROFESSIONAL SERVICES

THIS FIRST ADDENDUM TO AGREEMENT FOR PROFESSIONAL SERVICES is made and entered into this _____ day of _____, 20____, by and between the CITY OF NORTHGLENN, State of Colorado (hereinafter referred to as the "City") and HRS Water Consultants (hereinafter referred to as "Consultant").

RECITALS:

A. On April 22, 2019 the City and Consultant entered into an Agreement for Professional Services for groundwater consulting services (the "Agreement").

B. The parties desire to supplement the Agreement with this Addendum #1 to allow for additional monies for:

Exhibit A, Change of Scope and Compensation

AGREEMENT

NOW, THEREFORE, it is hereby agreed that for the consideration hereinafter set forth, that Consultant shall provide to the City, professional groundwater consulting services as needed in the manner provided in the Agreement.

1. The Scope of Services in the Agreement is hereby supplemented to include the monies for Change of Scope and Compensation attached hereto as **Exhibit A**, and incorporated herein by this reference (the "Additional Monies"). Consultant shall commence work on the original Scope of Services within ten (10) days of the issuance of a Notice to Proceed.

2. Subparagraph A. of Article IV entitled "Compensation" is hereby amended to provide as follows:

A. Compensation shall not exceed \$15432 for the work described in **Exhibit A** to this Addendum # 1.

3. The original Agreement is in full force and effect and is hereby ratified by the City and the Consultant. The original Agreement and this Addendum constitute all of the agreements between the City and the Consultant.

4/22/20

IN WITNESS WHEREOF, the parties hereto each herewith subscribe to the same in duplicate.

CITY OF NORTHGLENN, COLORADO

By: _____

Meredith Leighty

Print Name

Mayor

Title

Date

ATTEST:

Johanna Small, CMC, City Clerk

APPROVED AS TO FORM:

Corey Y. Hoffmann, City Attorney

CONSULTANT

By: *Hal R. Payne*

President

Title

4/23/20
Date

ATTEST:

Jamara L. Wiessnerberger

Officer

Title

4/23/20
Date

HRS WATER CONSULTANTS, INC.

8885 West 14th Avenue
Lakewood, CO 80215
(303) 462-1111
FAX (303) 462-3030
Email: dlipson@hrswater.com

Mark R. Palumbo
Principal Hydrogeologist

Consultants in
Water Resources
& Hydrogeology

March 26, 2020

Ms. Sophie Porcelli
Water Resources Analyst
City of Northglenn
12301 Claude Court
Northglenn, CO 80241-3306

Via Email

Subject: Aquifer Storage and Recovery Feasibility Study – Budget Analysis

Dear Ms. Porcelli,

This letter includes a budget analysis for the City of Northglenn's ("Northglenn") Aquifer Storage and Recovery Feasibility Study and requests additional project funding. The additional funding is for out-of-scope work that was completed by HRS and authorized by Northglenn. The attached spreadsheet quantifies the out-of-scope work and costs by month. The additional funding request is for \$15,431.

Please contact me if you have any questions or require additional information.

Sincerely,

HRS WATER CONSULTANTS, INC.



Mark Palumbo
Principal Hydrologist

City of Northglenn - ASR Feasibility Analysis				
Monthly Project Budget Calculations				
HRS Water Consultants, Inc.				
March 26, 2020				
MRP				
	Out of Scope ASR Work	Work Description	WQ Lab	Video Work
Mar-20				\$870.00
Feb-20	\$1,170.00	Review of lab reports/analyses	\$2,697.00	\$6,533.34
Jan-20	5,241.00	Review of lab reports/analyses		
Dec-19	3,315.00	Review of lab reports/analyses	10,736.00	
Nov-19	2,524.50	Review of lab reports/analyses	305.00	
Oct-19	0.00			
Sep-19	0.00			
Aug-19	0.00			
Jul-19	0.00			
Jun-19	1,039.50	Well site visit		
May-19	0.00			
Apr-19	0.00			
Sub Totals	13,290.00		\$13,738.00	\$7,403.34
Total	34,431.34			
Task 8.0	19,000.00	Task 8.0 is no longer included in the project.		
Additional Funding	15,431.34			

Work Description
Complete Well Video Memo
Well Video Work