

**PUBLIC WORKS MEMORANDUM
#16-2024**

DATE: July 8, 2024

TO: Honorable Mayor Meredith Leighty and City Council Members

THROUGH: Heather Geyer, City Manager *hmg*
Jason Loveland, Deputy City Manager *12*

FROM: Eric Czaikowski PE, Senior Engineer

SUBJECT: CR-119 – Wastewater Treatment Plant Odor Mitigation Consultant Addendum #2

PURPOSE

To consider CR-119, a resolution approving Addendum #2 to the contract with Providence Infrastructure Consultants, Inc. (Providence), for the Wastewater Treatment Plant (WWTP) Odor Mitigation project.

BACKGROUND

The City contracted with Providence for the design and construction services of the WWTP Odor Mitigation project. The City signed contract 2020-080 in the original amount of \$169,629.00 with a contingency amount of \$16,962.90. Since the start of this project, the engineering consultant has performed several out-of-scope tasks as requested by the City, including changing the entire design from an oxygen injection system to a ferric injection system. Amendment #1 provided out-of-scope services, unanticipated directives, and required construction phase services. The City signed Addendum #1 on June 27, 2022, in the amount of \$66,527.

As the project proceeded through its various phases, there were unforeseen issues that arose. During the project's initial startup, it was evident the existing non-potable water (NPW) designed by Integra Engineering in 2004 did not have adequate pressure to operate the new biofilters and maintain autonomous mechanical operations within the headworks building. Northglenn tasked Providence with evaluating the NPW supply at the plant to determine whether the pumps and pipes in the system were adequately sized to accommodate new demands from the biofilters west of the headworks building. Based on Providence's recommendations, staff elected to construct a new 4-inch NPW line to provide sufficient pressure to WWTP operations and abandon the existing 2-inch NPW line.

The existing injection vault at the WWTP was constructed in 2008. It has been incorporated into this project to inject ferric chloride into the wastewater force main to assist in odor mitigation. Within 4 days of dosing the force main, the tapping saddle failed and caused a leak. A new tapping port and appurtenances are required to correct this issue. Also, an influent bypass is needed to divert flows. Addendum #2 will provide funding to Providence to complete the project with all the recent and additional scope of work services added to the project.

BUDGET/TIME IMPLICATIONS

The budget impact of this supplemental appropriation request is shown in the following table:

Description	Amount
Original Contract	\$169,629.00
Original Contingency	\$16,962.90

Addendum #1	\$66,527.00
Addendum #2	\$22,650.10
Total Project	\$275,769.00

STAFF RECOMMENDATION

Attached is CR-119, a resolution that, if approved, would authorize the Mayor to execute Addendum #2 to the contract with Providence for engineering services for the WWTP Odor Mitigation project in an amount not to exceed \$22,650.10. Staff recommends approval of CR-119.

STAFF REFERENCE

If Council members have any questions, please contact Jason Loveland, Deputy City Manager, jloveland@northglenn.org or 303.450.8817

CR-119 – WWTP Odor Mitigation Consultant Addendum #2

WWTP Odor Mitigation Consultant Addendum #2

SPONSORED BY: MAYOR LEIGHTY

COUNCIL MEMBER'S RESOLUTION

RESOLUTION NO.

No. CR-119
Series of 2024

Series of 2024

A RESOLUTION APPROVING ADDENDUM NO. 2 TO THE PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF NORTHGLENN AND PROVIDENCE INFRASTRUCTURE CONSULTANTS FOR ENGINEERING SERVICES FOR THE WASTEWATER TREATMENT PLANT ODOR MITIGATION PROJECT

WHEREAS, the City of Northglenn entered into a Professional Services Agreement (the "Agreement") with Providence Infrastructure Consultants on September 14, 2020 for engineering services for the Wastewater Treatment Plant Odor Mitigation Project (the "Project");

WHEREAS, City Council approved Addendum No. 1 to the Agreement on June 7, 2022 to allow for an additional scope of services for the design and construction phase support of a Ferric injection system for the Project; and

WHEREAS, the City desires to supplement the Agreement with Addendum No. 2 to allow for an additional scope of services for the headworks bypass and biofilter startup final design and construction support services for the Project.

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

Section 1. Addendum No. 2 to the Professional Services Agreement between the City of Northglenn and Providence Infrastructure Consultants, attached hereto, in an amount not to exceed \$22,650.10 for engineering services for the Wastewater Treatment Plant Odor Mitigation Project is hereby approved and the Mayor is authorized to execute same on behalf of the City of Northglenn. The total Project amount shall not exceed \$275,769.00.

DATED at Northglenn, Colorado, this ____ day of _____, 2024.

MEREDITH LEIGHTY
Mayor

ATTEST:

APPROVED AS TO FORM:

JOHANNA SMALL, MMC
City Clerk

COREY Y. HOFFMANN
City Attorney

ADDENDUM #2 TO AGREEMENT FOR PROFESSIONAL SERVICES

THIS SECOND 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 Providence Infrastructure Consultants (hereinafter referred to as "Consultant").

RECITALS:

A. On September 14, 2020 the City and Consultant entered into an Agreement for Professional Services for Lift Station A and Force Main Additional Design and Construction Support for Oxygen Injection System services (the "Agreement") for an amount of \$169,629, with a 10% contingency allowance of \$16,962.90 for an amount not to exceed \$186,591.90.

B. On June 27, 2022 the parties agreed through Addendum #1 to add an additional scope of work for design and construction phase support of a Ferric Injection system in an amount not to exceed \$66,527, for a total amended contract amount not to exceed \$253,118.90.

C. On March 5, 2024 the parties initiated Change Order #1 for additional services required for the non-potable waterline and ferric injection vault encumbering the 10% contingency allowance of \$16,962.90 authorized on September 14, 2020. These services are complete, and realized a savings of \$2,370.90 available.

AGREEMENT

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

1. The Scope of Services in the Agreement is hereby supplemented to include the scope of services for Headworks Bypass and Biofilter Startup final design and construction phase support services attached hereto as **Exhibit A** and incorporated herein by this reference (the "Additional Scope of Services"). Compensation for the Additional Scope of Services shall not exceed \$25,021 as provided in **Exhibit B** attached hereto. Savings realized from Change Order #1 will be used towards this work, reducing the amount required for this Addendum #2 to \$22,650.10. Consultant shall commence work on the Additional 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 two hundred seventy-five thousand seven hundred sixty-nine dollars (\$275,769) for the work performed under the original contract, Addendum #1, Change Order #1 and the Additional Scope of Work as described in **Exhibit A** to this Addendum #2.

3. The original Agreement is in full force and effect and is hereby ratified by the City and the Consultant. The original Agreement, Addendum #1, Change Order #1 and this Addendum #2 constitute all of the agreements between the City and the Consultant.

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, MMC, City Clerk

APPROVED AS TO FORM:

Corey Y. Hoffmann, City Attorney

CONSULTANT

By: Ree E. Sinden

President

6/20/24

Title

Date

ATTEST:

Madeleine Ray
OPERATIONS ADMIN 6/20/2024
Title Date

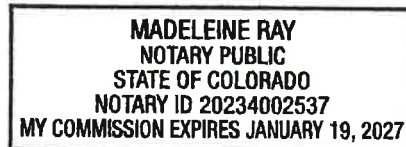




EXHIBIT A - MEMO

TO: Eric Czaikowski, City of Northglenn
FROM: Brett Bohn, P.E.
DATE: May 10, 2024
RE: **NORTHGLENN ODOR CONTROL PROJECT
AMENDMENT NO. 2 – NON-POTABLE WATER IMPROVEMENTS, HEADWORKS
BYPASS DESIGN, AND ADDITIONAL CONSTRUCTION SERVICES**

Northglenn Project ID: 2020-080
PIC Project ID: 201009

The purpose of this memorandum is to summarize the efforts and costs associated with the City's request for improvements to the non-potable water system, design of a new permanent headworks bypass pipeline, additional Lift Station A construction services, and additional construction phase services for the additional design items. Based on discussions with the contractor, the estimate completion is in June 2024.

400 – Construction Services

Headworks Bypass

PIC has been tasked to provide engineering support for additional services regarding a new bypass the headworks building. This includes preparation of an ESI (Engineering Supplemental Information) along with anticipated efforts for Submittals, RFI responses, and administrative billing for the increased duration of the construction services.

Biofilter Startup

In addition, PIC has provided support for the difficulties that have taken place for the startup of the Biofilters. This has included attending meetings, compiling documentation, analyzing water quality parameters, and providing engineering recommendations.

In total, this work is anticipated to amount to \$25,021.

600 – Lift Station A Services

In February 2023, PIC opened Task 600 to track time spent towards ESIs for the Lift Station A Replacement Project. There are several items that have been charged towards this task including:

- Evaluate and propose improvements to Lift Station A site drainage
- Aid in troubleshooting for the channel grinder
- ESI for PLC integration & wet well control logic
- ESI for Xcel automatic throw over (ATO) switch

In total, this work has amounted to \$9,904.

700 – Non-Potable Water System Analysis

PIC was tasked with evaluating the existing non-potable water system due to lower-than-expected pressures at the biofilters during startup. Efforts for this task include a site visit, system/document investigation, hydraulic calculations, Technical Memorandum summarizing the analysis and recommendations, and preparation of ESI 07.

In total, this work has amounted to \$4,688.

Costs

The original contract amount was \$169,629 with the allowance of a 10% contingency of \$16,962.90 for a total amount of \$186,591.90. This contingency was processed in Change Order #1 which was executed March 5, 2024.

Amendment #1 was executed June 27th, 2022 for an addition of \$66,527 to the contract, bringing the contract total to \$253,118.90.

PIC has been tracking and charging time separately for the efforts related to Lift Station A Services (\$9,904) and Non-Potable Water System Analysis (\$4,688). This amendment also includes an addition of \$25,021 for headworks bypass design, construction services for additional design, biofilter startup support, RFIs, and submittal reviews for out of scope items. This equates to a total of \$39,613 of costs.

The total cost for the efforts outlined above (\$39,631), minus the 10% contingency executed through Change Order #1 on March 5, 2024 (\$19,963), amounts to \$22,650.

An overall summary of the contract and amendment amounts is shown below.

Amendment No. 2 Cost Summary

Task ID	Task Description	Total \$
400	Construction Services	\$ 25,021
600	Lift Station A Services	\$ 9,904
700	Non-Potable Water System Analysis	\$ 4,688
	Amount of Additional Cost	\$ 39,613
	Amount charged Towards Contingency	\$ 16,963
	Amount for Amendment #2	\$ 22,650
	Original Contract Amount	\$ 169,629
	Contingency	\$ 16,963
	Amendment #1	\$ 66,527
	Total Revised Contract Amount	\$ 275,769

