THE CITY OF ASHEVILLE

STAFF REPORT

Council Meeting Date: April 27, 2021

Subject: Mills River Water Treatment Plant - Ozone Building Rehabilitation

Staff Resource(s): David Melton, Water Resources Department Director; Leslie Carreiro, Water Production / Water Quality Division Manager

Action Requested: Adoption of a resolution for a Change Order to Harper Corporation's current Mills River Water Treatment Plant Miscellaneous Phase 1 Improvements contract, in the amount of $1,475,624.78 with a 10% contingency of $147,562.48, for a total of $1,632,187.26 for this change order. Total project bid cost is $3,392.624.78; with contingency the total budget impact is $3,836,737.26.

Background:

- Ozone is an important disinfectant process in the treatment of drinking water at the Mills River Water Treatment Plant (WTP).
- The basement of the ozone building at the Mills River WTP flooded due to several situations arising at the same time.
- A manway to an empty ozone contactor chamber (basin) was left open due to needed repairs; heavy rains over a short time period caused high water levels in the sludge lagoons; and at the same time, staff needed to drain one of the sedimentation basins.
- Water was unable to drain to the lagoons and backed up into the contactor and thus the basement of the ozone building.
- Staff is now aware of this potential flooding situation.
- Safeguards have been put in place.
- Staff has improved signage and training to ensure the issue does not happen again.
- The damage was significant and requires replacement of all associated equipment.
- It also requires replacement of assets involved with the current Miscellaneous Phase 1 Ozone Rehabilitation project at the facility.
- The flooding damaged existing equipment as well as newly installed equipment.
- Harper Corporation holds the current open contract for the Phase 1 project.
- Harper Corporation will continue with the current project and the replacement of equipment damaged by the flooding.
- All necessary rehabilitation steps will be covered under this Change Order.

Vendor Outreach Efforts:

- Harper Corporation is currently under contract.
- As this is a work change directive, no further outreach was performed.

Council Goal(s):

- Clean & Healthy Environment

Committee(s):

- None

Pro(s):

- Ensures the Mills River WTP will be able to use all aspects of the original design (Ozone) to treat the source water of the Mills River.
- Ensures the Mills River WTP will continue to appropriately produce drinking water for the public.

- Ensures the operational staff safety by the replacement of all affected equipment.

Con(s):

- Without the use of ozone, the City could be out of compliance with the EPA Disinfection By-Products rule.
- Ozone helps to reduce the total organic carbon that is the precursor to Disinfection By-Products (Total Trihalomethanes and Haloacetic acids - HAA 5).
- Increased costs to produce high quality potable water due to loss of ozone treatment, resulting in other treatment processes having shorter life cycles.

Fiscal Impact:

- $1,475,624.78 with 10% contingency for a total of $1,623,187.26, to be funded within the existing Water Treatment Improvements Capital Improvement Program (CIP) budget.

Suggested Motion:

- Motion to adopt a resolution authorizing the City Manager to execute a Change Order to Harper Corporation's current Mills River Water Treatment Plant Miscellaneous Phase 1 Improvements contract, in the amount of $1,475,624.78 with a 10% contingency of $147,562.48, for a total of $1,623,187.26.

Attachment(s):

- Resolution

RESOLUTION NO. 21-____

RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT WITH THE HARPER CORPORATION FOR CONSTRUCTION SERVICES ASSOCIATED WITH MILLS RIVER WATER TREATMENT PLANT - OZONE BUILDING REHABILITATION

WHEREAS, pursuant to N.C.G.S. § 160A-312, the City of Asheville has authority to operate a public enterprise; and

WHEREAS, pursuant to N.C.G.S. § 160A-20.1, the City of Asheville may enter into contracts with private entities to carry out any public purpose the City is authorized to engage in; and

WHEREAS, The Harper Corporation is currently under contract for the Mills River Water Treatment Plant Miscellaneous Plant Improvements Phase 1; for the additional work involved with the Ozone Building Rehabilitation due to flooding; and

WHEREAS, the funding for the change order is allocated within the Water Resources - Capital Improvement Budget;

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

The City Manager, on behalf of the City of Asheville, is hereby authorized to execute a change order to the existing contract with The Harper Corporation for the Mills River Water Treatment Plant Miscellaneous Phase 1 Improvements, an amount of $1,475,624.78 with a contingency of $147,562.48 for a total change order cost of $1,623,187.26. Total project bid cost is $3,392.624.78; with contingency the total project cost should not to exceed $3,836,737.26.

Read, approved, and adopted this 27th day of April 2021.

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City Clerk Mayor

Approved as to form:

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City Attorney