



# City of Grand Island

Tuesday, January 12, 2021

Council Session

## Item G-11

**#2021-8 - Approving Designation of Sole Source Provider for Trojan UV System at the Wastewater Treatment Plant**

Staff Contact: John Collins, P.E. - Public Works Director

# **Council Agenda Memo**

**From:** Jon Menough PE, Wastewater Treatment Plant Engineer

**Meeting:** January 12, 2021

**Subject:** Approving Designation of Sole Source Provider for Trojan UV System at the Wastewater Treatment Plant

**Presenter(s):** John Collins PE, Public Works Director

## **Background**

City of Grand Island Wastewater Treatment Plant Ultraviolet (UV) disinfection system is a Trojan system UV3000 Plus. In the system, there are a total of 4 UV banks, which disinfect effluent water. This system was installed in 2004 and is in need of update to the self-cleaning system which involves replacing the drive cylinder, cleaning canisters and drive bar mechanism. Wastewater Division staff plan to do one (1) bank per year over the next three (3) years to complete the updates.

## **Discussion**

The City of Grand Island is required to meet State mandated disinfection standards on the treated effluent from the Wastewater Treatment Plant annually May through September. The City UV disinfection is a Trojan UV3000 Plus system which is using the UV disinfection lamps to inactivate pathogens, such as *E. coli*, before discharging the effluent.

Currently, UV disinfection banks are a combination of Trojan and an off brand manufacturer. Over the years, we have experienced operation and maintenance issues using non-Trojan pieces in the Trojan UV disinfection system. Different manufacturers offer varied life expectancy and intensity which is key to the UV disinfection process.

MC<sup>2</sup> Inc. of Omaha, Nebraska is the secured territory vendor of Trojan UV parts, materials, and service for the Trojan UV system.

We are requesting that MC<sup>2</sup> Inc to be designated as the sole source provider for Trojan UV parts, materials, and service. This would allow the plant to optimally operate and maintain the UV system. At this time the cost to provide the updates to the self-cleaning system are estimated at \$38,140.17.

## **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

## **Recommendation**

City Administration recommends that the Council pass a resolution designating MC<sup>2</sup> Inc as the sole source provider for Trojan UV parts, materials, and service.

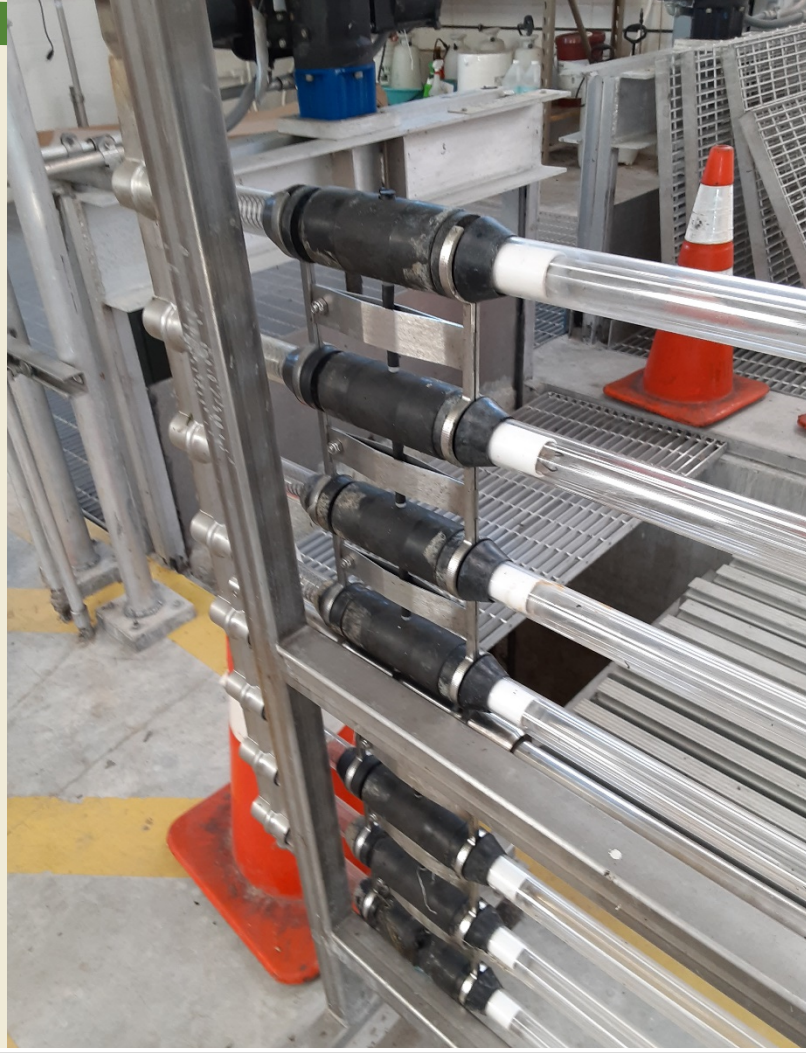
## **Sample Motion**

Move to approve the resolution.































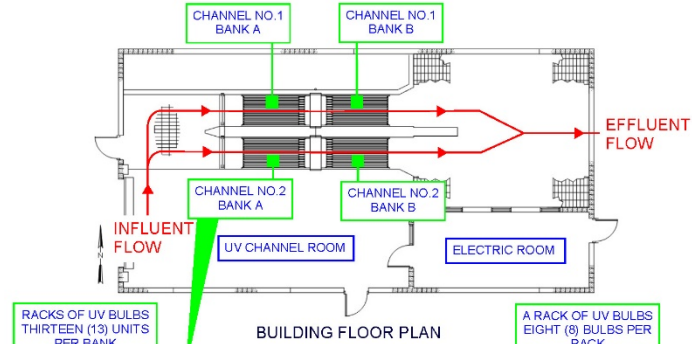








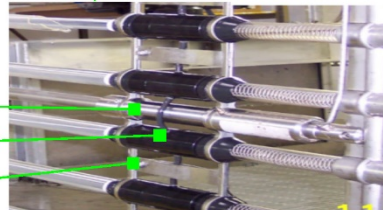
GRAND ISLAND WASTEWATER TREATMENT PLANT  
UV DISINFECTION SYSTEM  
PROJECT 2004-VVWTP-1



UV BULB  
CLEANING  
SYSTEM

CLEANING SYSTEM  
COMPOSED OF:

- DRIVE CYLINDER
- CLEANING CANISTERS
- DRIVE BAR MECHANISM



RESOLUTION 2021-8

WHEREAS, the City of Grand Island Wastewater Treatment Plant (WWTP) uses Trojan UV disinfection system at the plant; and

WHEREAS, MC<sup>2</sup> Inc of Omaha, Nebraska is the secured territory vendor of Trojan UV parts, materials, and service; and

WHEREAS, it is recommended that MC<sup>2</sup> Inc of Omaha, Nebraska be designated as the sole source provider for Trojan UV parts, materials, and service; and

WHEREAS, the system is in need of updates to the self-cleaning system at a cost of \$38,140.17.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the MC<sup>2</sup> Inc of Omaha, Nebraska is hereby designated as the sole source provider for Trojan UV parts, materials, and service.

BE IT FURTHER RESOLVED, the updates to the self-cleaning system in the amount of \$38,140.17 are hereby approved.

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Adopted by the City Council of the City of Grand Island, Nebraska, January 12, 2021.

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Roger G. Steele, Mayor

Attest:

\_\_\_\_\_  
RaNae Edwards, City Clerk

Approved as to Form	☐ _____
January 8, 2021	☐ City Attorney