



# City Council Report

**Date:** November 19, 2018  
**To:** City Council  
**Through:** Kari Kent, Assistant City Manager  
**From:** Beth Huning, City Engineer  
Marc Ahlstrom, Assistant City Engineer  
**Subject:** Greenfield Water Reclamation Plant, Bus Duct Replacement,  
Construction Services Contract (GMP No. 3, for the Greenfield Water  
Reclamation Plant, Phase III Expansion)  
City Project No. CP0263  
District-Citywide

## Purpose and Recommendation

The purpose of this report is to present the Guaranteed Maximum Price (GMP) for the Greenfield Water Reclamation Plant (GWRP) Bus Duct Replacement, a Construction Manager at Risk (CMAR) project. (See Exhibit "A" for project location.)

Staff recommends that Council authorize a contract for the completion of this project to McCarthy Building Companies in the amount of \$2,422,867.00 and authorize a change order allowance (5%) in the amount of \$121,143.35. Two prior GMP's have been awarded for \$46,569,401.00 and \$120,302,333.00, respectively.

## Background

This project will replace the electrical service feeds for the Solids Handling Building at the GWRP. These feeds consist of two 4000 Amp bus ducts from the onsite power feed and two 2000 Amp bus ducts from the backup generators. The new power feeds consist of buried cable which will be more reliable and are the industry standard for this type of facility.

## Discussion

In the past 12 years, the plant has experienced two failures of critical power feeds using the existing bus duct configuration. The City of Mesa, Town of Gilbert, and Town of Queen Creek (the "Owners") seek to provide increased reliability at the existing GWRP by modifying the existing configuration and placing the cables underground.

Once underway, construction of this project is anticipated to last no more than 6 months.

## **Alternatives**

An alternative to the approval of a Construction Services contract for this CMAR would be to construct this project using the traditional Design/Bid/Build method. This is not recommended due to the schedule of the project, and the complexity of the work on this already active construction site. The majority of the work in this project has been competitively bid by McCarthy to qualified subcontractors. Allowing McCarthy to perform this work will ensure that the current ongoing expansion can proceed smoothly without interference from an outside contractor.

Another alternative is not to perform the work. This is not recommended because the GWRP is an end of the line plant, and if this power feed fails, there is no alternative treatment facility to which the incoming sewage can be diverted.

## **Fiscal Impact**

The total authorized amount recommended for the third GMP for this project \$2,422,867.00 (GMP No. 3) and authorize a change order allowance (5%) in the amount of \$121,143.35 for a total authorization of \$2,544,010.35. This change order allowance will only be utilized for approved change orders.

This project is funded by the Greenfield Water Reclamation Plant Joint Venture Fund, with contributions coming from its members based on usage. Mesa's portion of this GMP is \$1,534,038.24 and is funded by 2014 authorized Wastewater bonds.

## **Coordinated With**

The Water Resources Department concurs with this recommendation. Also, this project was coordinated with the Towns of Gilbert and Queen Creek as partners in the Greenfield Water Reclamation Plant Intergovernmental Agreement dated August 7, 2018.