



AGENDA MEMORANDUM
Action Item for the City Council Meeting of April 25, 2023

DATE: April 25, 2023
TO: Peter Zanoni, City Manager
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<p align="center"><u>Construction Contract Award and Professional Services Contract Amendment</u> Cefe Valenzuela Landfill Gas Collection System 3C</p>

CAPTION:

Motion authorizing a construction contract to Tri Con Works, LLC of Baytown Texas, for the construction of Cefe Valenzuela Landfill Gas Collection System 3C in an amount not to exceed \$822,376.50 and authorizing professional services contract amendment No. 1 to SCS Engineers, Houston Texas, to provide Construction Quality Assurance (CQA) services in an amount of \$125,791.00 for a restated fee not to exceed amount of \$154,291.00, located outside of city limits, with FY 2023 funding available from Certificates of Obligation.

SUMMARY:

This item awards a construction contract for Cefe Valenzuela Landfill Gas Collection System 3C and a professional services contract amendment No. 1 to provide CQA services. The project provides the expansion of the existing Gas Collection Control System (GCCS) from nearby cells to cell 3C. This project has been reviewed and approved in the FY23 CIP.

BACKGROUND AND FINDINGS:

The Cefe Valenzuela Landfill is a municipal solid waste landfill, owned and operated by the City of Corpus Christi, Texas located outside of City limits near Petronila Creek on CR 20. The existing GCCS was installed in 2017 and contains a blower/flare facility, vertical extraction wells, associated piping and condensate management system. This project provides the installation of

landfill gas (LFG) extraction wells and wellheads, including well drilling, bentonite, and aggregate soil backfill. The installation of High-density polyethylene (HDPE) pipe, fittings, and valves, which also include condensate management system (pumps and sumps included). In previous projects cells 1B/1C have been connected to the existing GCCS.

The Cefe Valenzuela Landfill, GCCS Cell 3C, is required by Federal New Source Performance Standards (NSPS) for Municipal Solid Waste Landfill, which are contained in NSPS 40 CFR 62, Subpart 000 (EPA Emission Guideline Plan) and NESHAPS 40 CFR 63, Subpart AAAAA require that a GCCS control landfill gas from waste at the landfill that has been placed 5 years or more if at intermediate grade, or 2 years or more at final permitted grade. Based on that cell 3C’s first waste disposal began on or after October 9, 2018. Therefore, a GCCS expansion into Cell 3C must be constructed and operational by October 9, 2023. This project is not related to the Landfill Gas to Energy lease occurring at the Cefe Landfill.

Construction Quality Assurance (CQA) services for gas collection and control system (GCCS) construction requires specialty field CQA and construction-phase engineering oversight services. CQA services is required by TCEQ to report on any GCCS expansion progress. For the Cell 3C GCCS expansion generally includes review of Contractor submittals, requests-for-information, and installed quantities; full time observation and documentation of drilling and installation of LFG extraction wells and observation, documentation, and surveying during the installation of LFG collection piping and condensate management components; and preparation of a construction record (as-built) report.

PROJECT TIMELINE

2022 - 2023		2023 - 2023
March - January	Feb - April	June - August
Design	Bid/Award	Construction

Project schedule reflects City Council award on April 2023 with anticipated completion by August 2023.

COMPETITIVE SOLICITAION PROCESS:

The Contracts and Procurement Department issued a Request for Bids (RFB 4617) for the proposed Cefe Valenzuela Landfill Gas Collection System Cell 3C project on February 13, 2023. On March 15, 2023, the City received bids from four bids. City analyzed the bids in accordance with the contract documents and determined Tri Con Works, LLC as the lowest responsive and responsible bidder.

The bid results are summarized below:

BID SUMMARY	
CONTRACTOR	BASE BID
1. Tri Con Works, LLC	\$822,376.50
2. Bridge Specialties Inc.	\$867,395.00
3. Landmarc Environmental Systems, LLC	\$887,400.00
4. Carlson Environmental Consultants	\$1,310,275.00
Engineer's Opinion of Probable Construction Cost	\$998,721.50

Tri Con Works, LLC. has experience directly related to landfill gas collection and control systems at a size/cost in excess or comparable to the City's requirement and has a favorable reputation related to the installation of gas collection and control systems. The contractor has performed the first Landfill Gas Collection and Control System (GCCS) at Cefe Valenzuela landfill for the City of Corpus Christi, GCCS expansion for the City of Brownsville, GCCS Expansion for the City of Victoria Landfill and GCCS Expansion for Seabreeze Environmental Landfill in Arlington, TX and GCCS Expansion for Union County Landfill for the City of Wingate, NC.

ALTERNATIVES:

The alternative is that the City Council could choose not to award the construction contract to Tri Con Works, LLC. However, this could delay the start of the project. If the gas system is not expanded into Cell 3C, the City will be determined in violation of Federal and State regulations to control landfill gas emissions and in violation of the landfill's air permit. The violation would be reported to the Texas Commission on Environmental Quality (TCEQ) and the City would be subject to penalties.

FISCAL IMPACT:

The fiscal impact in FY 2023 is an amount of \$948,167.50 with funding available from the Landfill Capital Fund. The expenditures shown in the CIP reflect estimates prior to completion of the engineer's opinion of probable construction cost.

FUNDING DETAIL:

The Capital Improvement Program (CIP) shows that the project is planned for FY 2023. The project is ready to be implemented and the expenditure shown reflects the CIP.

Fund: Solid Waste 2023 CO (Fund 3375)
 Department: Solid Waste (31)
 Org: Grants and Capital Projects (89)
 Account: Construction (550910)
 Activity: 23118-3375-EXP
 Amount \$948,167.50

RECOMMENDATION:

Staff recommends awarding a construction contract Tri Con Works, LLC for the new expansion of the Gas Collection Control System into cells 3C, located at the Cefe Valenzuela Landfill with the construction duration planned for 80 days from issuance of the Notice to Proceed to begin construction in June 2023.

LIST OF SUPPORTING DOCUMENTS:

Bid Tab
CIP Page
Location and Vicinity Maps
PowerPoint