



AGENDA MEMORANDUM

Future Item for the City Council Meeting of September 19, 2017
Action Item for the City Council Meeting of September 26, 2017

DATE: August 30, 2017

TO: Margie C. Rose, City Manager

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**Engineering Testing Agreement
Cefé Valenzuela Landfill Groundwater Monitoring FY 2017-2018**

CAPTION:

Motion authorizing the City Manager, or designee, to execute an engineering testing agreement with Tolunay-Wong Engineers, Inc. of Corpus Christi, Texas in the amount of \$138,900 for the Cefé. Valenzuela Landfill Groundwater Monitoring FY 2017-2018.

PURPOSE:

The purpose of this Agenda Item is to authorize the selected firm to prepare the annual groundwater monitoring report as specified by the Texas Commission on Environmental Quality (TCEQ).

BACKGROUND AND FINDINGS:

The Cefe Valenzuela Landfill is the only Type 1 Municipal Solid Waste Facility to receive domestic waste and wastewater treatment plant sludge and requires a TCEQ permit to operate. Landfills are required to set up and monitor the underlying groundwater for contamination during their active life and post-closure care period. All groundwater monitoring systems must be certified by a qualified groundwater scientist and must comply with the sampling and analytical procedures outlined in the regulations.

The groundwater monitoring system consists of a series of wells placed “upstream” and “downstream” of the landfill. The samples from the upstream wells show the background concentrations of constituents in the groundwater, while the downstream wells show the extent of groundwater contamination caused by the landfill. Groundwater monitoring and reporting is required twice per year under the Texas Administrative Code, Title 30, Part 1 (TCEQ), Chapter 330 Municipal Solid Waste, Subchapter J: Groundwater Monitoring and Corrective Action.

This item provides for monitoring, analysis, and reporting including:

- Collecting field samples from each of the landfill’s groundwater 30 wells
- Collecting field samples from six leachate collection system locations
- Laboratory analysis for 17 metals, 47 volatile organic compounds, nitrate-nitrogen, ammonia-nitrogen and dissolved organic carbon
- Verification re-sampling for all sample locations that exceed TCEQ allowed limits
- Evaluation of the lab data and preparation of correspondence/submittals to TCEQ
- Preparation and submission of the TCEQ Annual Report
- Document preparation with analysis and justification to request TCEQ approval to discontinue monitoring of select metals on the basis that the tests offer little or no definitive indication as to whether a release has occurred within the landfill

ALTERNATIVES:

1. Authorize execution of an engineering testing agreement. (Recommended)
2. Do not authorize execution of an engineering testing agreement. (Not Recommended)

OTHER CONSIDERATIONS:

Not applicable

CONFORMITY TO CITY POLICY:

The testing agreement and selection process comply with the Professional Procurement Act and City Policy. Tolunay-Wong Engineers, Inc. was selected based upon qualifications, wide working knowledge of applicable project fundamentals, and understanding of project requirements.

EMERGENCY / NON-EMERGENCY:

Not applicable

DEPARTMENTAL CLEARANCES:

Solid Waste Department

FINANCIAL IMPACT:

X Operating

Revenue

Capital

Not applicable

Fiscal Year 2016-2017	Project to Date Expenditures (CIP only)	Current Year	Future Years	TOTALS
Budget		\$145,000		\$145,000
Encumbered / Expended Amount				
This item		138,900		138,900
Future Anticipated Expenditures This Project		5,437		5,437
BALANCE		\$663		\$663

Fund(s):

Comments: N/A

RECOMMENDATION:

City staff recommends the testing agreement with Tolunay-Wong Engineers, Inc. in the amount of \$138,900 for the Cefé Valenzuela Landfill Groundwater Monitoring FY 2017-2018.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Contract
Location Map
Presentation