



Legislation Details (With Text)

File #:	R2019-64	Version:	1
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File created:	4/26/2019	In control:	City Council
On agenda:	5/21/2019	Final action:	
Title:	Consider approving Resolution No. 2019-64 award a Bid to Advance One Development in the amount of \$962,828 for the construction of Phase E of the landfill gas collection system at Camelot Landfill; and take appropriate action		
Sponsors:	Shane Davis		
Indexes:			
Code sections:			
Attachments:	1. Resolution 2019-064, 2. Camelot 2019 Phase E Diagram.pdf, 3. Camelot 5-Year Plan (4-8-19 Draft).pdf, 4. Phase E Bid Tab.pdf, 5. Phase E Bid Award Advance One Development		

Date	Ver.	Action By	Action	Result
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Consider approving Resolution No. 2019-64 award a Bid to Advance One Development in the amount of \$962,828 for the construction of Phase E of the landfill gas collection system at Camelot Landfill; and take appropriate action

BACKGROUND:

The City of Farmers Branch owns the Camelot Landfill which is a Type I municipal solid waste landfill. The municipal solid waste permit was amended in August 28, 2017 which significantly increased the disposal capacity of the facility. The City and its contractor commenced construction of the new airspace on May 7, 2018.

As organic material in garbage is disposed at the Camelot Landfill is decomposed by microorganisms, gasses are emitted. The two main gasses produced during decomposition are the odorless gasses carbon dioxide and methane (98-99%). The other 1-2% of the landfill gases are odor producing compounds. Although odorless, methane is explosive and must be controlled. The most common control method for landfill gas control is a landfill gas collection system, which is a series of pipes and wells connect to a blower or compressor, which sends the gas to a flare or engine(s) where the methane is burned or combusted as fuel to run the engine that are used in the production of electricity.

As a result of the increased disposal capacity, the facility is now subjected to additional regulations. The City has 30 months from the submittal of the required non-methane organic compound (NMOC) report to install a landfill gas collection system into any area of the landfill that has waste that was buried over 5 years ago.

The northwest portion of the waste disposal area that does not have any landfill gas collection wells installed and had waste disposed over 5 years ago. Therefore, the landfill gas collection system must now be expanded into this area of the landfill to meet regulatory requirements. With the approval of the permit amendment, the west slope of the waste disposal area changed from 5:1 to 4:1 increasing the disposal capacity; the slope has been filled to meet the new permit design.

The onsite landfill gas to energy facility operated by Waste Management Renewable Energy (WMRE) is

operating at maximum capacity. Due to market conditions, WMRE has no plans to increase the size of the facility at Camelot Landfill. We currently collect more landfill gas than the facility can use. The additional landfill gas collected after the installation of Phase E is completed will be burned in the onsite flare as required by the facility air permit.

DISCUSSION:

The bid packet was distributed to four companies that specialize in landfill gas collection system construction and all four companies attended the pre-bid meeting. The City received three qualified bids which are attached for your review. The lowest cost bidder was Advance One Development with a bid of \$962,828. The project will be funded from the landfill closure/post closure fund.

FISCAL IMPACT:

1. Budgeted Financial Impact - *landfill closure/post closure account*

RECOMMENDATION:

City Administration recommends awarding Bid No. 19-14 to Advance One Development, LLC. In the amount of \$962,828 for the construction of Phase E of the landfill gas collection system at Camelot Landfill.

POSSIBLE COUNCIL ACTION:

1. I move to approve Resolution No. 2019-64.
2. I move to approve Resolution No. 2019-64, with modifications.
3. I move to table the issue for further study or take no action.

ATTACHMENT(S):

1. Resolution 2019-064
2. Camelot 2019 Phase E Diagram
3. Camelot 5-Year Plan
4. Phase E Bid Tab
5. Phase E Bid Award Advance One Development