City of Norman, OK

Municipal Building
Council Chambers
201 West Gray
Norman, OK 73069

Master

File Number: K-1819-82

File ID:	K-1819-82	**Type:**	Contract	**Status:**	Consent Item
Version:	1	**Reference:**	Item 18	**In Control:**	City Council
Department:	Utilities Department	**Cost:**	$67,000.00	**File Created:**	11/29/2018
File Name:	Engineering Services for Compost Reuse Pump Station			**Final Action:**	

Title: CONTRACT K-1819-82: A CONTRACT BY AND BETWEEN THE NORMAN UTILITIES AUTHORITY AND ALAN PLUMMER AND ASSOCIATES, INC., IN THE AMOUNT OF $67,000 TO PROVIDE DESIGN, SURVEYING, BIDDING, AND LIMITED CONSTRUCTION SERVICES FOR THE COMPOST RE-USE PUMP STATION PROJECT.

Notes: ACTION NEEDED: Acting as the Norman Utilities Authority, motion to approve or reject Contract K-1819-82 with Alan Plummer and Associates, Inc., in the amount of $67,000; and, if approved, authorize the execution thereof.

ACTION TAKEN:_____

Agenda Date: 12/11/2018

Agenda Number: 18

Attachments: text file, K-1819-82, Pr APAI

Project Manager: Mark Daniels, Utilities Engineer

Entered by: mark.daniels@normanok.gov

Effective Date:

History of Legislative File

Version:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:

Text of Legislative File K-1819-82

Body

BACKGROUND: The Supplemental Environmental Project was created to provide for effluent reuse at Yard Waste Composting Facility (Compost Facility) located adjacent to and southwest of the Water Reclamation Facility (WRF). Disinfected wastewater effluent may also be used, if permitted by the ODEQ, for irrigation purposes offsite such as at the Compost Facility. Wastewater reuse can reduce water demand and may help delay the need for expensive water supply projects. This project will install piping from the WRF to the Compost Facility and use disinfected effluent for irrigation purposes.

The relocated Composting Facility opened in the existing location in September 2009 and includes a looped irrigation water system to supply potable water for proper moisture control and curing of the compost. Yard waste including grass, leaves, shrubs, and tree limbs two inches in diameter or less are accepted at the composting facility. Yard waste is ground into mulch by a tub grinder, mixed in the correct proportions (nitrogen to carbon or green waste to brown waste) to aid decomposition and laid out in long rows called windrows. Initially, the windrows are about six feet high and sixteen feet wide, are kept moist with the aid of spray irrigation and mixed

by turning about three times each week. The heat generated by the decomposition process raises the internal windrow temperature to approximately 130 degrees Fahrenheit. The composting process is complete in 90 to 120 days and the volume of mulch is reduced about 50% as the mulch decomposes. Cured compost is then released to our citizens.

The Water Reclamation Facility (WRF) operates under an Oklahoma Pollutant Discharge Elimination System (OPDES) permit last issued in July 2010. The permit required completion of a Supplemental Environmental Project (SEP) and the Norman Utilities Authority (NUA) and the submitted the SEP schedule on November 30, 2014. The SEP project selected by the NUA was to utilize WRF effluent disinfected by chlorine for irrigation purposes at the Compost Facility.

The original schedule for the SEP improvements was delayed due to the construction of the WRF Phase 2 Improvements beginning in June 2014. Additionally, the construction of the new ultraviolet (UV) Disinfection Facility would allow use of UV disinfected effluent in lieu of effluent disinfected by chlorine. NUA staff and APAI requested a variance from DEQ reuse rules to accomplish this change on February 15, 2018. Staff and APAI met with DEQ to discuss the proposed variance on March 29, 2018 and the DEQ advised that the variance was conditionally approved on July 18, 2018.

DISCUSSION: Proposed Contract K-1819-82 authorizes APAI to proceed with design, surveying, bidding and limited construction management services for the Compost Reuse Pump Station (SA0016). The pump station will deliver UV disinfected effluent from the WRF to the existing irrigation pumps at the Compost Facility. The proposed scope of the work and its cost has been negotiated with APAI; the proposed lump sum fee is fixed at $67,000. Attachment A details the proposed schedule, Attachment B defines the work scope and Attachment C details the costs of the various work tasks.

As noted originally, the SEP project (WW0058) was funded by the Water Reclamation Fund; however, since the proposed pump station benefits only the Compost Facility, project funding was changed to the Sanitation Fund. The FYE19 budget for the Effluent Reuse at Compost Facility (project SA0016) includes $80,000 in Design (account 033-9975-432.62-01) and is sufficient to fund the proposed contract amount of $67,000.

RECOMMENDATION: Staff recommends that the NUA approve Contract K-1819-82 with Alan Plummer and Associates, Inc. of Oklahoma City, Oklahoma, for the design, surveying, bidding and limited construction management services for the Compost Reuse Pump Station for a total fee of $67,000.