



**Recommendation for
Water & Wastewater Commission**

Commission Meeting Date:	July 12, 2017
Council Meeting Date:	August 17, 2017
Department:	Purchasing
SUBJECT	
Authorize negotiation and execution of a contract with VEOLIA WATER TECHNOLOGIES, INC. dba KRUGER , to provide an ammonia reduction pilot system at the Hornsby Bend Biosolids Management Plant, in an amount not to exceed \$91,000.	
AMOUNT AND SOURCE OF FUNDING	
Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Water.	
Purchasing Language:	Sole source
Prior Council Action:	N/A
For More Information:	Georgia Billela, 512-974-2939; John Mitchell, 512-972-1951
Boards and Commission Action:	July 12, 2017- To be reviewed by the Water and Wastewater Commission.
MBE/WBE:	This contract is exempt from the City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program; therefore, no subcontracting goals were established.

The contract will provide an ammonia reduction pilot system at the Hornsby Bend Biosolids Management Plant (Hornsby Bend BMP) for Austin Water. The Hornsby Bend BMP receives all solids generated by Austin Water's two wastewater treatment plants (WWTPs); Walnut Creek WWTP and South Austin Regional WWTP. The solids are treated at the Hornsby Bend BMP by thickening, anaerobic digestion, and then dewatering by belt filter press. Once the solids are dewatered they are composted on-site.

Effluent (referred to as side stream flows) from Hornsby Bend BMP's thickening and dewatering operations are currently treated in the on-site Side Stream Treatment Plant before being discharged into a series of polishing ponds and ultimately irrigated on-site.

The side stream flows from the belt filter press have a high ammonia concentration. The Anita™ Mox deammonification technology can treat these side stream flows and significantly reduce the ammonia concentration before being discharged into the on-site polishing ponds. This pilot project will test the deammonification technology to determine if it is a viable treatment process for the belt filter press side stream flows at the Hornsby Bend BMP.

The deammonification process is temperature dependent so if it is successful throughout the winter months it should perform well during the summer months. Accordingly, testing is planned to occur between October and April which historically are the coolest months of the year.

If the City is unable to secure a contract, the pilot program will not move forward and Austin Water will continue problem solving on how to best decrease high ammonia levels in the side streams.

The pilot project will be located within zip code 78725. The project is located in the Extraterritorial Jurisdiction (ETJ) and will be managed by Austin Water.