



BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS

Requested Board Meeting Date: 10/18/2016

or Procurement Director Award

Contractor/Vendor Name (DBA): Kemira Water Solutions, Inc.

Project Title/Description:

Ferric Chloride

Purpose:

Amendment of Award: Master Agreement No. MA-PO-14-144. This revision increases the five-year award amount by \$1,327,696.00 to \$3,400,000.00. Administering Department: Regional Wastewater Reclamation.

This revision increases the five-year award amount due to increases in Ferric Chloride usage.

Procurement Method:

Pursuant to Pima County Procurement Code, Section 11.12.010 - Competitive Sealed Bidding, Solicitation No. 105627 was issued. On October 15, 2013, the Board of Supervisors awarded a Master Agreement for Ferric Chloride in the five-year amount of \$2,072,304.00. The award was for a term of five years and included annual review periods.

Pima County Regional Wastewater Reclamation Department's upgrade of its regional Wastewater Reclamation Facilities (WRFs) improved the quality of its reclaimed water by further removing solids and nutrients from the influent wastewater to its facilities. Integral to the upgrade design, is the ferric chloride system to protect the equipment and structures at the WRFs. The pollutants removed include nitrogen and phosphorus. Uncontrolled phosphorus crystallizes and causes costly damages to pumps, and centrifuges as it occludes pipes and deposits on structures and equipment.

Ferric chloride is used to inhibit the crystallization and sedimentation of phosphorus. Ferric chloride is injected into the solids processing stream prior to the waste activated sludge equalization tank. The thickened sludge is pumped to the digesters and the digested sludge is pumped to the dewatering centrifuges. The waste activated sludge daily volume flow rate has increased from 612,000 gallons per day in January 2015 to 880,000 gallons per day in July 2016 and the volume of the feed sludge to be thickened and dewatered has increased from an average daily of 246,000 gallons per day to 330,000 gallons per day.

Cake biosolids production at the Tres Rios WRF has increased from 960 wet tons per month in 2015 to 5,652 wet tons per month in 2016. The increase in cake production has raised the average daily centrate volume from 397,000 gallons per day in 2015 to 725,000 gallons per day in 2016. Centrate is the medium for substantial formation of struvite which necessitates increased usage of ferric chloride. RWRD has optimized the utilization of ferric chloride as dosing of ferric Chloride has been reduced by 23% from 0.53 gallons per 1,000 gallons of sludge to 0.41 gallons per 1,000 gallons of sludge.

Attachment: Master Agreement.

Program Goals/Predicted Outcomes:

To reduce crystallization and sedimentation of phosphorus in RWRD piping and equipment.

Public Benefit:

Reduction in the cost to operate the Tres Rios Wastewater Reclamation Facility by reducing crystallization and sedimentation of phosphorus in RWRD piping and equipment.

Metrics Available to Measure Performance:

Measurable reduction in the buildup of struvite, the crystallization and sedimentation of phosphorus, in plant equipment and piping during routine plant maintenance. Struvite buildup is rapid and easily detected.

Procure Dept 09/30/16 RM09:49

Retroactive:

No

Original Information

Document Type: _____ Department Code: _____ Contract Number (i.e., 15-123): _____

Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____

Expense Amount: \$ _____ Revenue Amount: \$ _____

Funding Source(s): _____

Cost to Pima County General Fund: _____

Contract is fully or partially funded with Federal Funds? Yes No Not Applicable to Grant Awards

Were insurance or indemnity clauses modified? Yes No Not Applicable to Grant Awards

Vendor is using a Social Security Number? Yes No Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment Information

Document Type: MA Department Code: PO Contract Number (i.e., 15-123): 14-144

Amendment No.: _____ AMS Version No.: 8

Effective Date: _____ New Termination Date: _____

Expense Revenue Increase Decrease Amount This Amendment: \$ 1,327,696.00

Funding Source(s): Enterprise Fund

Cost to Pima County General Fund: \$0.00

Contact: Keith E. Rogers *Keith E. Rogers* 09-23-16 *Andrew* 9/23/16

Department: Procurement *May 20* 9/23/16 Telephone: 724-3542

Department Director Signature/Date: *[Signature]* 9/26/16

Deputy County Administrator Signature/Date: *[Signature]* 9/26/16

County Administrator Signature/Date: *[Signature]* 9/27/16
(Required for Board Agenda/Addendum Items)



MASTER AGREEMENT

PIMA COUNTY, ARIZONA

THIS IS NOT AN ORDER - TRANSMISSION CONSTITUTES CONTRACT EXECUTION

Master Agreement No: 14000000000000000144

MA Version: 8

Page: 1

Description: FERRIC CHLORIDE

I S S U E R	<p>Pima County Procurement Department 130 W. Congress St. 3rd Fl Tucson AZ 85701</p> <p>Issued By: KEITH ROGERS Phone: 5207243542 Email: keith.rogers@pima.gov</p>
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T E R M S	<p>Initiation Date: 10-18-2016 Expiration Date: 10-14-2018</p> <table style="width: 100%; border: 1px solid black; background-color: #e0e0e0; margin-top: 10px;"> <tr> <td style="padding: 2px;">NTE Amount:</td> <td style="padding: 2px;">\$3,400,000.00</td> </tr> <tr> <td style="padding: 2px;">Used Amount:</td> <td style="padding: 2px;">\$1,812,921.20</td> </tr> </table>	NTE Amount:	\$3,400,000.00	Used Amount:	\$1,812,921.20
NTE Amount:	\$3,400,000.00				
Used Amount:	\$1,812,921.20				

V E N D O R	<p>KEMIRA WATER SOLUTIONS INC</p> <p>Po Box 105046 Mail Code 5586</p> <p>ATLANTA GA 30348-5046</p>	<p>Contact: SHELLY ROBINSON Phone: 785-842-7424 Email: shelly.robinson@kemira.com Terms: 0.0000 % Days: 30</p>
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Shipping Method:	Vendor Method
Delivery Type:	STANDARD GROUND
FOB:	FOB Dest, Freight Prepaid
Modification Reason	
Increases the five-year award amount by \$1,327,696.00.	

This Master Agreement incorporates the attached documents, and by reference all instructions, Standard Terms and Conditions, Special Terms and Conditions, and requirements that are included in or referenced by the solicitation documents used to establish this agreement. All Transactions and conduct are required to conform to these documents.



MASTER AGREEMENT DETAILS

Master Agreement No: 1400000000000000144

MA Version: 8

Page: 2

Line	Description					
1	DISCOUNT or FREE FORM LINE					
	Service Contract Amt			Service From		Service To
	\$0.00			--		--
2	Ferric Chloride 38-42%					
	Discount	UOM	Unit Price	Stock Code	VPN	MPN
	0.0000 %	GAL	\$1.62			