



**PURCHASING ITEM
FOR
COUNCIL AGENDA
Memo No. CP13-172**

1. Agenda Item Number:
27
2. Council Meeting Date:
April 25, 2013

TO: MAYOR & COUNCIL

3. Date Prepared: April 10, 2013

THROUGH: CITY MANAGER

4. Requesting Department: Municipal Utilities

5. SUBJECT: Airport Water Reclamation Facility (AWRF) Process Modeling Assistance

6. RECOMMENDATION: Staff recommends Council award a Project Agreement to Wilson Engineers for AWRF Process Modeling Assistance pursuant to Contract No. EN1003-101, Project No. WW1314-101, in an amount not to exceed \$48,500.

7. BACKGROUND/DISCUSSION: The City is partnering with Intel to conduct process modeling of the Airport Water Reclamation Facility. Modeling will be conducted by Intel's consultant. The City will retain Wilson Engineers to provide input and validate the model. This joint use model will provide future operational assistance to the City.

This project will involve a comprehensive review and analysis of existing data and projected flow, to accurately model the wastewater characteristics of Intel's discharge to AWRF. Modeling will include a characterization of the existing Intel site wastewater discharge, modeling of the selected flow scenarios, and review of the output model detail.

8. EVALUATION: On May 10, 2012, Council awarded a contract extension to Wilson Engineers for the first option year of the annual permitting, study and design for water and wastewater facilities, Contract No. EN1003-101. Staff reviewed the scope of work, billing rates and total fee for this project, compared them to historical costs, and determined they are reasonable.

9. FINANCIAL IMPLICATIONS:

Cost: \$48,500
Savings: N/A
Long Term Costs: N/A
Fund Source:

<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
615.3960.5219.0	Wastewater Operating	Other Professional/Contract Services	No	\$48,500

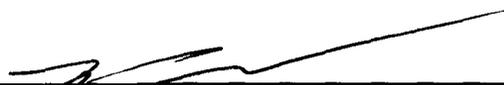
10. PROPOSED MOTION: Move Council award a Project Agreement to Wilson Engineers for AWRF Process Modeling Assistance pursuant to Contract No. EN1003-101, Project No. WW1314-101, in an amount not to exceed \$48,500., and authorize the Mayor to sign the contract documents.

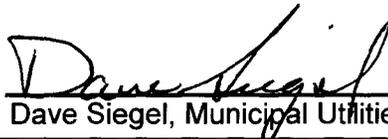
ATTACHMENTS: Location Map, Project Agreement

APPROVALS

11. Requesting Department

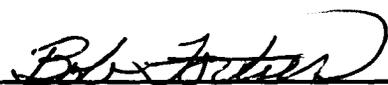
13. Department Head

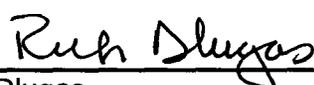

Kim Neill, Utilities Operations Manager


Dave Siegel, Municipal Utilities Director

12. Transportation & Development

14. City Manager


Bob Fortier, Capital Projects Manager


Rich Dlugas

**PROJECT AGREEMENT
PURSUANT TO ANNUAL CONTRACT NO. EN1003-101**

AGREEMENT NO: WW1314-101

This AGREEMENT is made this ____ day of _____, 2013, by and between the City of Chandler, a municipal corporation (hereinafter referred to as "CITY") and Wilson Engineers, LLC, registered in the state of Arizona (hereinafter referred to as "Annual Consultant") and is a project agreement entered into pursuant to Annual Contract No. EN1003-101.

CITY and Wilson Engineers, LLC, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1 - DESCRIPTION OF WORK:

This project is Airport Water Reclamation Facility (AWRF) Process Modeling Assistance, Project Number WW1314-101. The scope of work consists of review of the process modeling for the AWRF, all as more particularly set forth in Exhibit A attached hereto and incorporated herein by reference.

The Annual Consultant shall not accept any change of scope, or change in contract provisions, unless issued in writing, as a contract amendment and signed by the Contract Administrator.

ARTICLE 2 - CONTRACT PRICE:

CITY shall pay Annual Consultant for completion of the Work in accordance with the Contract Documents a fee not to exceed Forty Eight Thousand Five Hundred Dollars (\$48,500) determined and payable as set forth in Annual Contract EN1003-101 and Exhibit B attached hereto and made a part hereof by reference.

ARTICLE 3 - CONTRACT TIME:

The contract time is Ninety days and Annual Consultant agrees to complete all work within Ninety (90) days of the date CITY issues a Notice to Proceed.

ARTICLE 4 - GENERAL:

This Project Agreement is entered into pursuant to Annual Contract No. EN1003-101 and the terms and conditions contained therein are incorporated herein by reference as if set forth in full.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first written above.

This Agreement will be effective on this _____ day of _____, 20113.

CITY OF CHANDLER

FOR THE ANNUAL:

MAYOR DATE:

By: Steve Todd
Title: PRELIMIAL

ADDRESS FOR NOTICE
City of Chandler
P.O. Box 4008, Mail Stop 407
Chandler, AZ 85244-4008
480-782-3307

ADDRESS FOR NOTICE
Mr. Steve Todd
Wilson Engineers
9633 S. 48th St., Ste. 290
Phoenix, AZ 85044-6658

APPROVED AS TO FORM:

Phone: 480-893-8860
Fax: 480-893-8968

City Attorney By: [Signature]
ATTEST:

City Clerk

EXHIBIT A SCOPE OF WORK

The City is interested in partnering with Intel on conducting a process modeling of the AWRF. Modeling will be conducted by Intel's consultant Black & Veatch (B&V). The City has determined to utilize the services of ANNUAL CONSULTANT for assistance in review of the modeling conducted by B&V.

ANNUAL CONSULTANT shall provide the following services:

TASK 1.0 Project Meetings

ANNUAL CONSULTANT shall attend meetings including conference calls with Intel, B&V and the City. Six meetings (including conference calls) are anticipated and are included in this task.

TASK 2.0 Modeling Assistance

Modeling assistance is anticipated as outlined in the Introduction of this scope of work. It is anticipated that the work will be conducted on a time and material basis. ANNUAL CONSULTANT shall:

1. Review, analyze, and reduce Intel interim sampling data that is being collected at this time to characterize the combined Intel site wastewater discharge. (Intel/B&V, ANNUAL CONSULTANT and City to review information provided)
2. Determine modeling coefficients to be used for Intel industrial wastewater contributions based on prior or current treatability information. (Intel/B&V, ANNUAL CONSULTANT to review and advise City based on the back up information provided)
3. Review, analyze, and reduce AWRF and OWRF historical influent loading data.
4. Develop mass and flow balance for the Ocotillo sewer shed to which Intel wastewater discharges.
5. Define existing (15 MGD AWRF) and future (22 MGD AWRF) process elements as a basis for modeling.
6. B&V will perform modeling for existing conditions (AWRF) and calibrate to observed levels of performance.
7. City and Intel will select Intel discharge scenario for modeling, - i.e., select transfer scenario to the AWRF.
8. Work with B&V and develop combined influent wastewater characteristics for the above scenario.
9. Develop combined modeling coefficients for the selected combined wastewater scenario. (B&V and ANNUAL CONSULTANT to review and advise City based on the backup information provided)
10. Perform modeling for the selected scenario and review output detail. Iterate as necessary. (B&V and ANNUAL CONSULTANT to review model inputs and output to the extents possible with the information provided)

Any "What-If" modeling exercises performed afterward can be addressed on an as needed basis. (B&V to conduct modeling, ANNUAL CONSULTANT to review model inputs and output to the extents possible with the information provided)

EXHIBIT B
FEE SCHEDULE

Task No.	Task Description	Staff Hours								TOTAL HOURS	COST
		Principal \$ 195	Sr. Proj Manager \$ 180	Project Manager \$ 150	Project Engineer \$ 125	Design Engineer \$ 105	Senior Designer \$ 125	CADD Tech \$ 70	Clerical \$ 65		
Task 1.0 - Project Meetings											
1.0	Project Meetings	8	16	0	0	0	0	4	4	32	\$ 4,980
Subtotal - Project Meetings		8	16	0	0	0	0	4	4	32	\$ 4,980
Task 2.0 - Modeling Assistance											
2.0	Modeling Assistance	24	80	0	24	0	0	24	4	156	\$ 24,020
Subtotal - Modeling Assistance		24	80	0	24	0	0	24	4	156	\$ 24,020
Subtotal - Labor Summary		32	96	0	24	0	0	28	8	188	\$ 29,000

Other Direct Costs

Task No.	Task Description	Unit	Total Units	Cost / Unit	Total
2.0	KC Environmental	LS	1	\$ 19,500	\$ 19,500
Subtotal - Other Direct Costs					\$ 19,500

TOTAL FEE PROPOSAL	
LABOR SUMMARY	\$ 29,000
OTHER DIRECT COSTS	\$ 19,500
TOTAL FEE	\$ 48,500