



**PURCHASING ITEM  
FOR  
COUNCIL AGENDA  
Memo No. CA12-218**

**1. Agenda Item Number:** 21  
**2. Council Meeting Date:** June 28, 2012

**TO: MAYOR & COUNCIL**  
**THROUGH: CITY MANAGER**

**3. Date Prepared:** June 6, 2012  
**4. Requesting Department:** Municipal Utilities

**5. SUBJECT:** Award Phase II for the Airport Water Reclamation Facility (AWRF) Expansion to 22 MGD, Project No. WW1013-401 to McCarthy Building Companies, Inc., in an amount not to exceed \$23,237,877 for a revised total contract amount not to exceed \$35,557,731, contingent upon written notification from Intel and appropriate funding.

**6. RECOMMENDATION:** Staff recommends Council award Phase II for the Airport Water Reclamation Facility (AWRF) Expansion to 22 MGD, Project No. WW1013-401 to McCarthy Building Companies, Inc., in an amount not to exceed \$23,237,877 for a revised total contract amount not to exceed \$35,557,731, contingent upon written notification from Intel and appropriate funding.

**7. BACKGROUND/DISCUSSION:** The Airport Water Reclamation Facility is located on Queen Creek Road, west of McQueen Road. Design and construction of new wastewater treatment capacity will accommodate Intel's plant expansion on Dobson Road. A public information meeting was held with residents neighboring the facility to discuss the expansion project and the measures taken to mitigate impact to the surrounding community. The expansion project will begin June 2012 and completed in summer 2014. The facility's treatment capacity will increase from 15 MGD to 22 MGD. The overall project will be released for construction in phases with each phase of the project requiring Council approval.

This phase of the project includes all labor, materials, and equipment for construction of the following: carbon source feed facility, headworks screening, aeration basins, pre-stage basin, flocculator basins, filters, sludge holding tank, and chlorine contact basin. In addition, there will be extensive yard piping and related earthwork required for the above listed work.

**8. EVALUATION:** On May 24, 2012, Council approved a Construction Manager at Risk construction services contract to McCarthy Building Companies, Inc. The contractor was selected in accordance with state law for Construction Manager at Risk services. 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:	\$12,319,854	Phase I
	<u>\$23,237,877</u>	Phase II
	\$35,557,731	Total

Savings: N/A  
Long Term Costs: N/A

**Fund Source:**

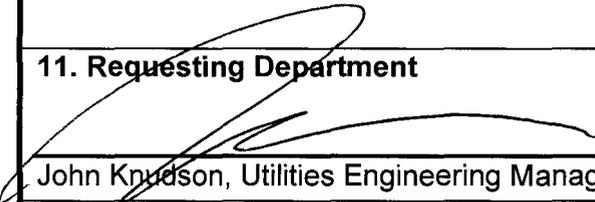
<u>Acct. No.:</u>	<u>Fund Name:</u>	<u>Program Name:</u>	<u>CIP Funded:</u>	<u>Amount:</u>
615.3910.6814.6WW022	Wastewater Operating	Water Reclamation Facility Expansion	Yes	\$23,237,877

**10. PROPOSED MOTION:** Move Council award Phase II for the Airport Water Reclamation Facility (AWRF) Expansion to 22 MGD, Project No. WW1013-401 to McCarthy Building Companies, Inc., in an amount not to exceed \$23,237,877 for a revised total contract amount not to exceed \$35,557,731, contingent upon written notification from Intel and appropriate funding, and authorize the Mayor to sign the contract documents.

**ATTACHMENTS:** Contract, Location Map

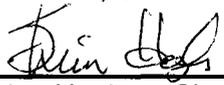
**APPROVALS**

**11. Requesting Department**

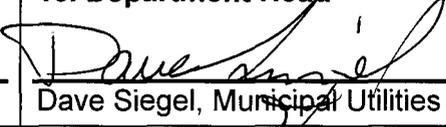
  
John Knudson, Utilities Engineering Manager

**12. Transportation and Development**

  
Bob Fortier, Construction Projects Manager

  
Sheina Hughes, City Engineer

**13. Department Head**

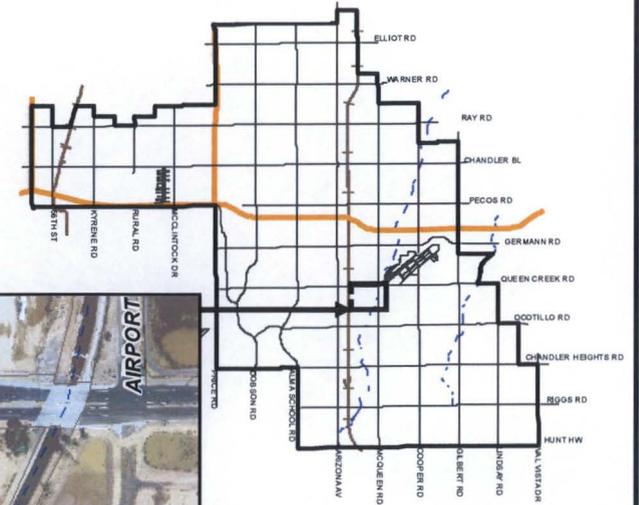
  
Dave Siegel, Municipal Utilities Director

**14. City Manager**

  
Rich Dlugas



# AIRPORT WATER RECLAMATION FACILITY EXPANSION TO 22 MGD PROJECT NO. WW1013-401



MEMO NO. CA12-218

 PROJECT SITE



Jun. 12. 2012 9:43PM

No. 0969 P. 2

**CITY OF CHANDLER**  
CHANGE ORDER NUMBER 1  
DATE 06/06/12

This Change Order is not valid until signed by both the City and the Contractor. Signature of the Contractor indicates agreement herewith, including any adjustments in the Contract Price or Contract Time.

PROJECT NAME AWRF Expansion to 22 MGD CONTRACTOR McCarthy Building Companies, Inc.  
PROJECT NO. VVV1013-401 COST ACCT # \_\_\_\_\_  
USER DEPT Municipal Utilities NTP DATE 06/06/12

TO: McCarthy Building Companies, Inc.  
(CONTRACTOR)

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES TO THIS CONTRACT:  
(Describe changes in detail and/or reference attached cost breakdown sheet.)

This phase of the project includes all labor, materials, and equipment for construction of the following additional structures: one (1) carbon source and feed facility, one (1) headworks screen, three (3) aeration basins, one (1) pre-stage basin, two (2) flocculator basins, four (4) filters, one (1) sludge holding tank, and one (1) chlorine contact basin. In addition, there will be extensive earthwork and yard piping required for the aforementioned work. The design changes are specifically described in Exhibits A and B, attached hereto and incorporated herein by reference.

ORIGINAL CONTRACT AMOUNT: \$12,319,854.00  
CURRENT CONTRACT PRICE PRIOR TO CHANGE ORDER:  
(Including previous change orders) \$12,319,854.00  
NET CHANGE RESULTING FROM THIS CHANGE ORDER: \$23,237,877.00  
REVISED CONTRACT PRICE INCLUDING THIS CHANGE ORDER: \$35,557,731.00  
CHANGE ORDER IS % OF ORIGINAL CONTRACT AMOUNT: 188.02%

CONTRACT TIME OR COMPLETION DATE PRIOR TO THIS  
CHANGE ORDER (Including previous change orders): 818 9/1/14  
DAYS DATE

NET CHANGE RESULTING FROM THIS CHANGE ORDER: 0  
DAYS

REVISED CONTRACT TIME AND COMPLETION DATE: 818 9/1/14  
DAYS DATE

THE ABOVE IS AGREED TO BY:

McCarthy Building Companies, Inc.  
CONTRACTOR

[Signature] 06/13/12  
By: Date

CITY OF CHANDLER (Date & Name of Owner Dept. verbal approval): \_\_\_\_\_

For Change Orders of less than \$50,000 and 10% of contract price:

Title: \_\_\_\_\_ Signature \_\_\_\_\_  
Department Director or Designee By: Date

Or (but not both)

For Change Orders of \$50,000 or more, or 10% or more of contract price:

MAYOR \_\_\_\_\_  
Approved by Council on: \_\_\_\_\_  
Date \_\_\_\_\_  
Approved as to form: [Signature]  
City Attorney

Date: \_\_\_\_\_  
Attest: City Clerk \_\_\_\_\_  
Date

**Exhibit A**

**AWRF Expansion to 22 MGD – Phase 2, Package 2 Plans**

- Install one (1) carbon source and feed facility.
- Install one (1) headworks screen.
- Construct three (3) aeration basins.
- Construct one (1) pre-stage basin.
- Construct two (2) flocculator basins
- Install four (4) filters
- Install one (1) sludge holding tank
- Construct one (1) chlorine contact basin
- Install yard piping
- Conduct earthwork and grading
- Install electrical wiring and equipment
- Install process controls
- Remove/relocate unidentified utilities/underground facilities as necessary
- Headworks influent screen rehabilitation allowance
- Install process piping
- Apply Industrial coatings/concrete liners
- Install structural and miscellaneous steel

Exhibit B

WC	CSI DESCRIPTION	Package 2 GMP Subtotal	Tax Exempt Breakout	Self Perform	Subcontractor / Supplier
1A	Mechanical MOPOs	\$32,500			Allowance
1B	General Requirements	\$520,400			McCarthy
1C	Construction Survey				
2A	Earthwork & Paving	\$1,232,738			CSW
2B	Yard Piping	\$3,080,244	\$1,513,538		CSW
2C	Fences & Gates (Allowance)				
2D	Site Concrete				
2E	Landscaping & Irrigation (Allowance)				
3A	Concrete	\$6,291,689	\$2,271,120	\$8,291,689	McCarthy
3B	Reinforcing Steel				
3C	Clay Liners				
4A	Masonry				
5A	Structural & Miscellaneous Steel	\$1,270,000			TBD
5B	Pre-Engineered Metal Canopies				
6A	Rough Carpentry				
7A	Roofing & General Sheet Metal				
7B	Sealants				
8A	Doors / Frames / Hardware				
8B	Glass & Glazing				
8C	Overhead Doors				
8D	Translucent Panels				
9A	Painting				
9B	Industrial Coatings/ Concrete Liner	\$834,000	\$80,000		TBD
11A	Full Port Valve and Actuator				
11B	Process Equipment				
11C	Temporary Odor Control				
11D	Fine Screens	\$218,000	\$189,228	\$218,000	McCarthy - Parkson
11E	Carbon Source Metering Pumps	\$108,992	\$81,744	\$108,992	McCarthy - Netzech
11F	Equipment Installation - Bld Package 2	\$79,915		\$79,915	McCarthy
12A	Blinds				
13A	FRP Tanks	\$142,251	\$114,239	\$142,251	McCarthy - Midwestern
13B	PIG Receiving Station	\$91,056	\$68,282	\$91,056	McCarthy - Mid-America
15A	Process Piping	\$958,258	\$484,315	\$666,488	McCarthy
15B	HVAC & Plumbing				
15C	Balancing				
15E	Fire Protection				
16A	Electrical	\$584,242			K&F Electric
16B	Process Controls	\$89,783			Invensys
	Package 2 Delta Drawing Allowance	\$791,802			Allowance
	<b>Total Direct Cost</b>	<b>\$16,627,851</b>	<b>\$4,858,474</b>	<b>\$7,879,379</b>	
	General Conditions	\$1,178,936			
	Contractor's Contingency	\$880,104			
	Design Completion Contingency	\$0			
	Construction Fee	\$697,418			
	Self Perform Markup	\$1,181,807			
	General Liability & Umbrella Insurance	\$184,313			
	Builders Risk Insurance	(\$82,781)			
	Performance & Payment Bonds	\$0			
	Escalation Contingency	\$0			
	Gross Receipts Tax - 6.5% of B.B.	\$805,366			
	<b>Total Construction Cost</b>	<b>\$21,890,328</b>			
	Owner Contingency	\$222,546			
	CCC Headworks Allowance	\$200,000			
	Unidentified Utilities/ Underground Facilities	\$1,225,000			
	<b>Project Total Cost</b>	<b>\$23,237,877</b>			