

California City  
City Council  
Staff Report  
Public Works, Dan Allen  
January 31, 2006

Status:  Routine       Closed Session

**Meeting Date:** February 7, 2006

**Item:** Authorization to accept bid for well #16

**BACKGROUND:**

On January 24, 2006 the City of California City received bids on the project known as "Well #16. This project is the construction of a new production well located in tract 5988 lot 10. This property is in the city industrial park at the far west end on the south side of Lindbergh.

Layne Christian Company was the only bidder to submit a package for this project after a 14-day advertising period. City staff has verified all bonds and insurances to be true and find the package to be in order.

The test wells, construction and monitoring are outlined in attachment (a)

**RECOMMENDATION:** Council authorize staff to award contract to Layne Christensen Company for the construction of well #16

**ENVIRONMENTAL:** CEQA document has been approved and is on file with the city-planning department.

**FISCAL IMPACT:** Total bid price \$ 653,500.00. Total monies allocated to this project minus the ground water study fee \$730,000.00. Budgeted monies for this project \$750,000.00

NB3.

**Bid Results: Well No. 16**  
**Tuesday, January 24, 2006, 2:00 p.m.**

I, Helen Dennis, City Clerk of California City, hereby state that at 2:00 o'clock p.m. on Tuesday, January 24, 2006, there was a bid opening called for bids to construct Well #16 and monitoring wells in the City of California City. There was one bid.

Bidder was Layne Christensen Company, Barstow, CA. and the amount of the bid was **\$653,970.00** for Option "A" which includes monitoring wells.

  
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Helen Dennis, City Clerk

Date: 1/24/06

**16 Construction Project: Attachment (A)**  
**Supply Development Program**

of California City  
 00 Hacienda Blvd.  
 California City, CA 93505  
 Attention: Daniel Allen

**Scope of Work: Option A - Drill Test Hole, Design Well, Drill Pilot Hole, Construct Well**

Drill 5.5 inch dual-wall reverse circulation exploratory test hole to 1,000ft. Air lift water testing at selected intervals. Ream and condition boring for geophysical logging at total depth. Abandon boring with concrete/bentonite. Discharge cuttings, formation fluids and drilling mud on site. Provide onsite hydrogeologist to describe cuttings, collect discrete-depth water samples, and record water production rates. Analyze technical data and prepare a recommended well design. Construct and equip well.

**Scope of Work: Option B - Drill Pilot Hole, Design Well, Construct Well**

Drill 17.5inch pilot hole to 800 ft. Discharge cuttings, formation fluids and drilling mud on site. Provide onsite hydrogeologist to describe cuttings and collect water samples during zone testing. Analyze technical data and prepare a recommended well design. Construct and equip well.

	Option A				Option B	
	Quantity	Units	Rate	Amount	Quantity	Amount
<b>1-1,000ft. DWRC Test Hole</b>						
Mob/demob DWRC rig and crew including permit	1	lump sum	\$ 10,500.00	\$ 10,500.00	0	\$ -
Per diem	10	/12-hr shifts	\$ 200.00	\$ 2,000.00	0	\$ -
Dual-wall reverse circulation drilling	1000	/foot	\$ 30.00	\$ 30,000.00	0	\$ -
Air lift water testing	5	/hour	\$ 300.00	\$ 1,500.00	0	\$ -
Mud boring for geophysical logging	1000	/foot	\$ 14.00	\$ 14,000.00	0	\$ -
Set up rig & move between holes	0	each	\$ 3,500.00	\$ -	0	\$ -
Stand-by rate (logging, client decision, site access, etc.)	8	/hour	\$ 250.00	\$ 2,000.00	0	\$ -
Abandon borehole	1000	/foot	\$ 8.00	\$ 8,000.00	0	\$ -
Baker tank mob/demob	0	/tank	\$ 1,000.00	\$ -	0	\$ -
Baker tank rental	0	/day per tank	\$ 25.00	\$ -	0	\$ -
Cutting bins	0	each	\$ 480.00	\$ -	0	\$ -
Cuttings and fluid disposal	0	/ton	\$ 40.00	\$ -	0	\$ -
Furnish, install, and remove sound curtains (24 ft height)	0	/lin ft	\$ 50.00	\$ -	0	\$ -
Traffic control including encroachment permit	0	/day	\$ 250.00	\$ -	0	\$ -
<b>DWRC Test Hole Estimated Total</b>				<b>\$ 68,000.00</b>		<b>\$ -</b>

	Option A				Option B	
	Quantity	Units	Rate	Amount	Quantity	Amount
<b>1-800ft. Production Well</b>						
Mobilization/demobilization of flooded reverse circulation drill rig, crew, tools, materials	1	lump sum	\$ 53,000.00	\$ 53,000.00	1	\$ 53,000.00
Furnish labor and materials for the installation one 30" x50' conductor casing	50	/foot	\$ 400.00	\$ 20,000.00	50	\$ 20,000.00
Drill 17.5" pilot hole with the flooded reverse circulation drilling method from bottom of conductor	750	/foot	\$ 54.00	\$ 40,500.00	750	\$ 40,500.00
Ream borehole to nominal 28"	750	/foot	\$ 65.00	\$ 48,750.00	750	\$ 48,750.00
Furnish and install 16" x 3/8" wall mild steel blank casing	430	/foot	\$ 104.00	\$ 44,720.00	430	\$ 44,720.00
Furnish and install 16" x 0.060" copper bearing louvered well screen	350	/foot	\$ 155.00	\$ 54,250.00	350	\$ 54,250.00
Furnish and install 16" copper bearing blank	20	/foot	\$ 125.00	\$ 2,500.00	20	\$ 2,500.00
Furnish and install 4" gravel feed tubes		/foot	\$ 18.00	\$ -	0	\$ -
Furnish and install tacna filter pack	450	/foot	\$ 65.00	\$ 29,250.00	450	\$ 29,250.00
Furnish and install 10 sack sand/slurry sanitary seal	350	/foot	\$ 48.00	\$ 16,800.00	350	\$ 16,800.00
Perform zone testing, 1st zone	1	/zone	\$ 8,500.00	\$ 8,500.00	1	\$ 8,500.00
Perform zone testing, subsequent zones	4	/zone	\$ 8,500.00	\$ 34,000.00	4	\$ 34,000.00
Perform development by swabbing and airlifting with the drill rig	30	/hour	\$ 275.00	\$ 8,250.00	30	\$ 8,250.00
Furnish, install and remove test pump	1	Lump Sum	\$ 14,000.00	\$ 14,000.00	1	\$ 14,000.00
Perform development pumping	40	/hour	\$ 225.00	\$ 9,000.00	40	\$ 9,000.00
Perform step testing (3- 6 hr tests, 6 hr recovery)	24	/hour	\$ 225.00	\$ 5,400.00	24	\$ 5,400.00
Perform aquifer test pumping	24	/hour	\$ 225.00	\$ 5,400.00	24	\$ 5,400.00
Furnish and install water lube pumping equipment capable of 1000 gpm, 250hp motor, 480 ft of 10" water-lube drop pipe, 600 amp meter main, MCC, controls, Edison cement base, MCC cement base, pump base & underground conduits	1	Lump Sum	\$ 156,150.00	\$ 156,150.00	1	\$ 156,150.00

Production Well Estimated Total				\$ 550,470.00	\$ 550,470.00	
Professional Services	Quantity	Units	Rate	Amount	Quantity	Amount
Geologist to observe test hole drilling inc. vehicle, per diem	10	12-hr shifts	\$ 1,400.00	\$ 14,000.00		\$ -
Geologist to observe pilot hole drilling inc. vehicle, per diem		12-hr shifts	\$ 1,400.00	\$ -	10	\$ 14,000.00
Electric log, natural gamma, guard log, sonic	1	test hole	\$ 3,500.00	\$ 3,500.00		\$ -
Electric log, natural gamma, guard log, sonic, caliper		/pilot hole	\$ 4,500.00	\$ -	1	\$ 4,500.00
Caliper log on reamed borehole	1	/reamed hole	\$ 2,000.00	\$ 2,000.00	1	\$ 2,000.00
Hydrogeological Analysis Report/Sieve Analyses, Well Design	1	lump sum	\$ 5,000.00	\$ 5,000.00	1	\$ 5,000.00
Water quality testing	10	each	\$ 500.00	\$ 5,000.00	10	\$ 5,000.00
General Mineral, General Physical, Inorganic Chemical Analyses, only						
Water quality testing	1	each	\$ 6,000.00	\$ 6,000.00	1	\$ 6,000.00
Title 22 Analyses						
<b>Estimated Total for Professional Services</b>				<b>\$ 35,500.00</b>		<b>\$ 36,500.00</b>
				<b>ESTIMATED TOTAL \$ 653,970.00</b>		<b>\$ 586,970.00</b>