



MONTHLY PROGRESS
Report

AUGUST 2008



ASR

PRESERVING OUR WATER
...OUR FUTURE



PROGRAM OVERVIEW

The City of Wichita's Integrated Local Water Supply (ILWS) Plan provides a roadmap for meeting the City's projected water demands through 2050. One of the principal components of the ILWS Plan is artificial recharge of the Equus Beds Aquifer using surplus flows from the Little Arkansas River, which is referred to as the City's ASR (Aquifer Storage Recovery) Program. This program is anticipated to be completed in four phases with an ultimate capacity of 100 million gallons per day (mgd). Other components of the ILWS Plan include redevelopment of the Bentley Reserve Wellfield and expansion of the Local Wellfield.

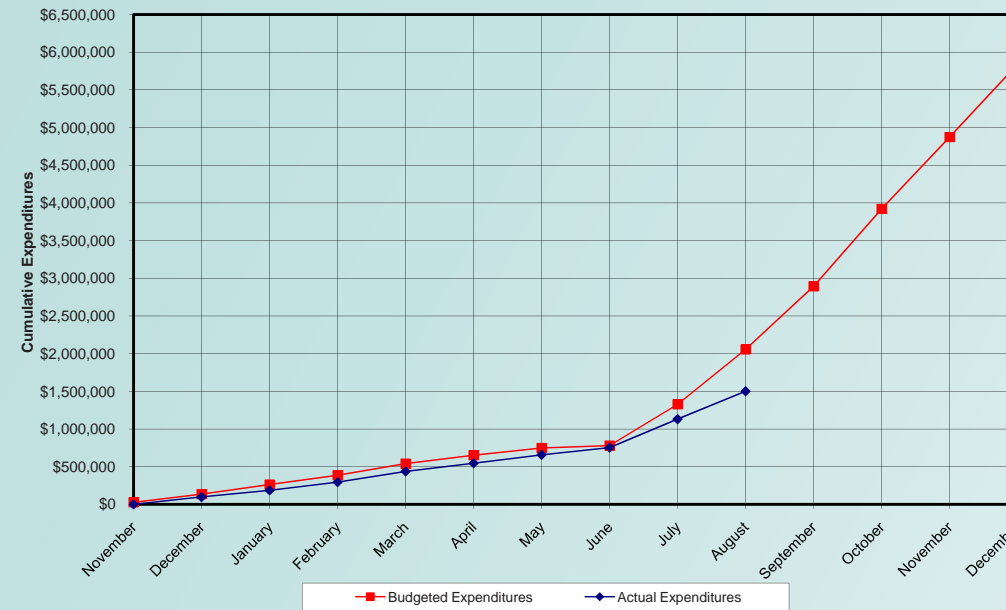
Phase I of the ASR Program, a 10-mgd system, was completed in 2006 and began operations in 2007. Phase II of the City's ASR Program was initiated in December 2007 and will increase the City's capacity to recharge and recover water from the Equus Beds Aquifer by another 30-mgd. The ASR Phase II Program consists of the following five projects: pipelines and river intake, overhead power lines, water treatment plant, recharge wells, process control and SCADA implementation. For more information please go to <http://www.wichita.gov/News/Announcements/07-03-2008A.htm>.

ACCOMPLISHMENTS/HIGHLIGHTS

- Held Kick-Off Meeting for the Well Technical Advisor Contract (CH2MHill) on August 22, 2008. The meeting helped define the scope of work for the contract
- Held the Membrane Procurement Process workshop on August 12, 2008
- Held Monthly Coordination Meeting on August 28, 2008 with representatives from each design firm, program managers, and owner's representatives
- The Recharge and Recovery Wells project held a preliminary design criteria workshop on August 12, 2008 to review current designs and discuss possible modifications. During the workshop a drilling schedule was developed to initiate hydrogeologic drilling and testing
- The PC/S project held an Operating Strategy Workshop on August 27, 2008 to identify the ASR system operation boundaries and define the next steps for continuation of ASR Operations Strategy development
- The Program Management Team received base mapping for pipeline corridors and furnished this information to the designer (CDM)
- Continued evaluation of new WTP site location work involved evaluating pipelines to new WTP site location and preparing a draft site layout for the WTP (CDM)
- Water sampling was collected from the Little Arkansas River. Collected water was tested raw and filtered for total organic carbon as well as chlorine demand and disinfectant by-product formation. River sediment samples were also collected for sieve analysis (CDM)
- The recharge and recovery wells design firm coordinated access requirements for hydrogeologic drilling and testing with PEC so that test hole drilling can commence in September (Burns and McDonnell)
- Environmental clearances have been completed for the majority of the existing and new well sites (Burns and McDonnell)
- Held Public Information Meeting with WWU's Communication Specialist and Director
- The Program Management Team reviewed the NPDES Permit information with KDHE Bureau Chief Waldo
- The PC/S design firm developed and distributed an Operations Strategy template to other project teams to capture operation requirements for pipelines, wells, WTP, river intake, and overhead power lines (CH2MHill)
- The overhead power lines design firm received anticipated power load demands from each of the projects and is proceeding to finalize design concepts for interim submittal in October (CH2MHill)
- The process to be used for pre-selecting the membrane manufacturer and membrane design parameters (i.e. design temperature) was determined so that the membrane procurement documents can be developed (CDM)

Wichita ASR Phase II Program

Budgeted vs. Actual Expenditures (through August 2008)

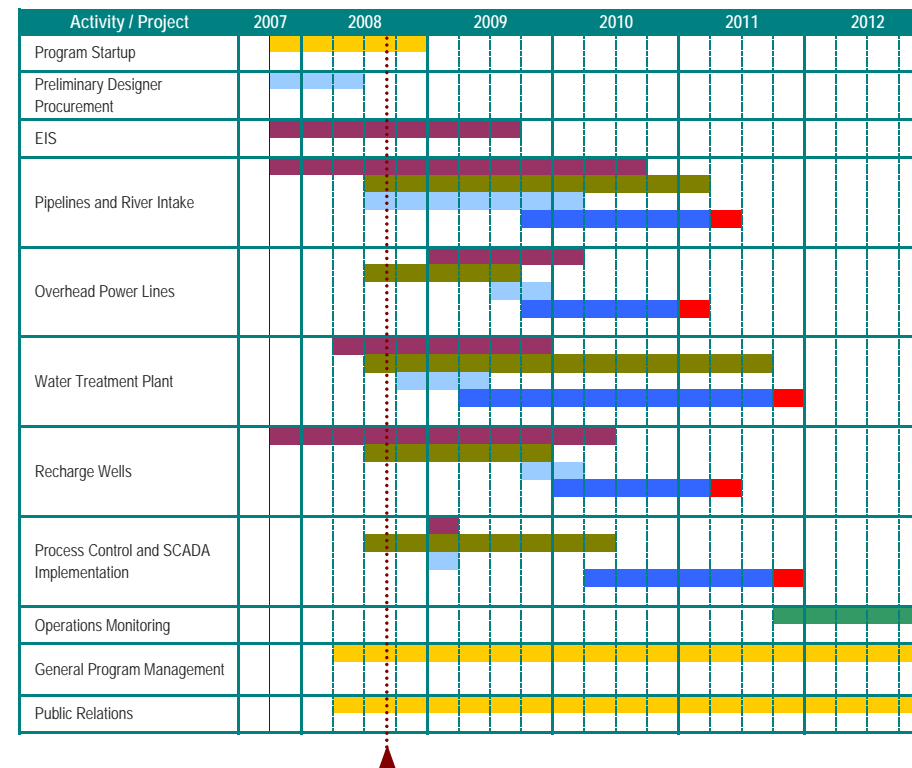


Program Contract Summary

Design Contracts	Service	Contract Amount	Costs to Date	Percent Invoiced	Earned Value	Projected Variance at Completion*
CDM	Pipelines Preliminary Design	\$1,742,700	\$132,939	8%	\$193,917	\$548,000
CDM	WTP Prelim. Design	\$1,713,000	\$202,886	12%	\$352,088	\$725,900
Burns & McDonnell	Recharge Wells Prelim. Design	\$867,241	\$70,504	8%	\$99,363	\$251,093
CH2M-Hill	Power Lines Prelim. Design	\$218,895	\$54,150	25%	\$77,245	\$65,448
CH2M-Hill	PC/S Prelim. Design	\$269,890	\$51,444	19%	\$82,881	\$102,370
CH2M-Hill	Process Validation	\$19,048	\$0	0%	**	**
CH2M-Hill	Wells Technical Advisory	\$99,102	\$2,544	3%	**	**
Construction Contracts	Service	Contract Amount		Percent Invoiced	Earned Value	Projected Variance at Completion
Program Management Contracts	Service	Contract Amount		Percent Invoiced		
R. W. Beck, Inc.	2008 Program Management	\$1,877,872***		51%		
R. W. Beck, Inc.	Supplemental Agreement No. 1 & 2	\$589,590		13%		
R. W. Beck, Inc.	Contingency Authorization No. 1 (5/19/08)	\$52,000		28%		
Program Management Subcontracts	Service	Contract Amount		Percent Invoiced		
PEC	2008 Program Management	\$1,102,550		37%		
PEC	Amendment No. 1 & 3	\$572,790		13%		
Carollo Engineers	Validation Workshop	\$20,000		0%		

* Positive values represent amount of money the project will be under budget at completion
 ** These amounts will be calculated after two months of invoices
 *** This contract amount includes all supplemental, contingency authorizations, and program management subcontract contract amounts

Master Schedule



LEGEND:

- Permitting
- Design Phase
- Designer/Contractor Procurement
- Construction Phase
- Commissioning
- OPS Monitoring
- Support
- ▲ Project Completion

NOTE: This schedule represents a **design-build approach** for the water treatment plant and the large diameter (66-inch) pipeline; all other projects have a conventional **design-bid-build approach**. This schedule represents the target implementation schedule that will be updated later in 2008.