



**TURNER BASIN IMPROVEMENTS
PROJECT NO. WR11017.00
STATUS UPDATE: DECEMBER 30, 2013**

The project involves the grading and hauling to create two new recharge basins east of Turner Basin No. 4. It will also install new pipes, gates, and controls for the two new recharge basins. This project will also connect to an existing flood control retention facility, Basin 5, by constructing a new stormwater piping from Deer Creek Channel into Basin 8. This will allow the Turner Basin site to receive and capture channel flow further upstream and increase recharge potential.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$1,275,000	\$ 945,102

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/01/11A	02/22/12A	Completed	\$32,622	\$35,332
Master Plan	02/22/12A	02/22/12A	Completed	\$326	\$444
Pre-design	02/22/12A	03/30/12A	Completed	\$13,093	\$74,997
Environmental Impact	03/01/11A	12/20/12A	Completed	\$72,892	\$74,197
Design	04/02/12A	02/22/13A	Completed	\$120,772	\$122,203
Permits	03/30/12A	12/20/12A	Completed	\$9,927	\$9,927
Bid and Award	12/21/12A	02/20/13A	Completed	\$2,736	\$2,747
Construction	02/20/13A	04/18/14	In Progress	\$1,022,631	\$625,255
				<u>\$1,275,000</u>	

This project is partially funded by the Bureau of Reclamation with a grant of \$406,712.

Project Update:

The Contractor (KIP Construction) is in the process of completing electrical and mechanical installations at Turner No.1 and Deer Creek Basins. The Contractor and subcontractor system integrator will participate in control programming workshop with Agency staff prior to completing programming and integration of project controls.

A construction change order in the amount of \$21,800 was issued on October 16, 2013 to remove buried debris within Basin 8. On December 3, 2013, \$15,000 change order was issued to address the thief of electrical and control wires at Basins 1 and 4. The change order will

replace and secure the new cables. A third change order in the amount of \$2,500 is pending. This will modify the outlet gate at Basin 8 to address maintenance access concerns.

Project Photos:



Construction of Junction Structure



Inside the Completed Junction Structure



**Installed 60-inch connection pipe into Basin 8
Junction Structure**



**WINEVILLE PROOF OF CONCEPT
PROJECT NO. EN13031.00
STATUS UPDATE: DECEMBER 30, 2013**

The Wineville Basin Proof of Concept (POC) is an investigative project that consists of six cells designed to test and evaluate percolation rates at strategic locations throughout the basin. Each of the test cells will be 0.5 acres in size. The test cells will be excavated at different depths to allow the project to gather percolation data for soils above and below the previously identified clay layer. After completion of the testing, a final project report will be developed.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$425,000	\$241,949

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost to Date</u>	<u>Note</u>
Design	01/11/13	04/24/13	Complete	\$22,000	\$10,365	1
Weeding	09/2013	09/2013	Complete	\$28,000	\$28,000	2
Permits	04/24/13	06/19/13	In Progress	\$2,200	\$2,200	
Environmental Assistance	03/2013	11/2013	Complete	\$22,600	\$18,800	3
Survey	09/2013	11/2013	Complete	\$21,000	\$11,767	4
Construction	06/19/13	02/12/14	In Progress	\$183,000	\$13,197	5
Extra Equipment			Complete	\$7,500	\$7,500	6
Ontario Pumping Costs	10/2013	11/2013	Complete	\$36,000	\$15,000	7
CM and Testing Support	09/2013	11/2013	Complete	\$36,000	\$16,345	
Testing Contingency				\$66,000		8
				\$424,300		

Notes:

- 1) Design complete, pending final project report and consultant support services during testing.
- 2) Weeding activities to allow work to commence prior to regulated bird nesting season. Initial project scope assumed basin would be clear of vegetation to avoid nesting season regulations. Additional weeding was necessary due to aggressive weed growth.
- 3) Additional costs incurred due to biological surveys requirements set forth in regulatory permits. Regulatory permit conditions received after initial budget established.
- 4) Additional site topographic survey requirements set forth in regulatory permits. Regulatory permit conditions received after initial budget established. Work activities include pre and post aerial surveys.
- 5) Low bid price received during bidding phase was \$183,000.
- 6) Procurement of 8 pressure transducers and data logger equipment for data monitoring and basin testing.
- 7) Estimated cost. Pending November usage costs.

8) Additional cost per month of testing. Includes pumping, labor, equipment, and additional mobilization.

Project Update:

The contractor (Southern California Grading, Inc.) has completed all contract related work, removed materials and equipment from the site. A coordination meeting is being scheduled by end of the month to discuss and finalize project. Project closeout documentation will be processed in the upcoming period with the contractor and agency staff.

Project Photos:



**Berm removed and channel cleaned
(12/03/13)**



**Access roads removed and basin restored
to original (12/03/13)**



JURUPA PUMP STATION HVAC IMPROVEMENTS
PROJECT NO. EN14040
STATUS UPDATE: DECEMBER 30, 2013

The Jurupa Pump Station (PS) is a key recharge contributor that delivers storm water runoff, local runoff, and recycled water to RP-3. The electrical equipment, such as the motor control center, variable frequency drives (VFDs) and communication equipment, is critical to the operation of the pump station. Due to the high temperatures experienced, vital electrical equipment has been experiencing temperature related failures and PS shutdowns. The project includes installation of a permanent air conditioning system, roof thermal insulation, controls, etc. for the electrical equipment at the Jurupa PS.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$300,000	\$1,063

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	09/02/13A	10/30/13A	Completed	\$1,000	\$380
Design	10/31/13A	04/18/14	In-Progress	\$45,000	\$683
Bid and Award	04/21/14	06/25/14	Not Started	\$4,000	\$0
Construction	06/26/14	03/12/15	Not Started	<u>\$100,000</u>	\$0
				\$150,000	

The total project cost was originally \$300,000. Through the Pre-design Phase the Agency has been able to evaluate the details of the project and simplify the scope. The updated total project cost is not-to-exceed \$150,000, with a Chino Basin Watermaster (CBWM) 50% cost share of \$75,000.

Project Update:

The revised Preliminary Design Report (PDR) prepared by the design consultant, Kitchell, was received on December 17, 2013. Based on the building assessment and cost estimate results, the Agency and Kitchell recommend direct cooling and ducting to the VFD, MCC, and LCP panels. The recommended approach will save energy as only critical electrical equipment will be cooled during operational periods. Additionally, the Agency recommends a design-build approach to assist in cost and schedule containment. The Agency anticipates receiving the 100% Design Submittal in April 2014.

Project Photos:



MCC Control Panel



Pumping System



**SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: DECEMBER 30, 2013**

San Sevaire basins consist of five, soft-bottomed basins along the San Sevaire Channel. The basins encompass approximately 93 acres with the potential to recharge up to 8,500 acre-feet per year (AFY) of Recycled Water (RW). The basins currently operate by delivering RW only to basin 5, which has the lowest infiltration rate as compared to the other basins. This has limited current RW recharge to approximately 500 AFY.

The Project will evaluate and propose construct improvements needed to maximize infiltration and recharge of RW at the San Sevaire Basins.

Schedule:

	<u>Project Budget</u> \$2,500,000	<u>Actual Cost to Date</u> \$74,793			
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Pre-design	10/01/12A	02/27/14	In Progress	\$177,677	\$61,109
Environmental Impact	06/26/13A	09/23/14	In Progress	\$22,677	\$0
Design	05/09/14	06/16/15	Not Started	\$152,247	\$0
Land Acquisition	05/09/14	01/06/15	Not Started	\$0	\$0
Permits	05/15/13A	12/18/15	In Progress (1)	\$75,570	\$13,684
Bid and Award	07/01/15	09/16/15	Not Started	\$8,140	\$0
Construction	12/21/15	03/30/17	Not Started	\$1,807,425	\$0
				<u>\$2,243,736</u>	

IEUA is currently securing grant funding from DWR through SAWPA. Final approval of the grant is pending.

Project Update:

The project is in the Preliminary Design phase. Tom Dodson and Associates completed reviewing the basin improvements in regards to CEQA and other environmental impact requirements. The results of TDA's finding will be included as part of the predesign report.

<u>Recent Activities:</u>	<u>Date</u>	<u>Status</u>
▪ Obtain CEQA and Impacts from TDA	12/30/13	Completed
▪ Complete Project Development Report	02/30/14	In Progress
▪ Perform Soil Investigation	04/15/14	Delayed (2)

Notes:

(1) Includes permit and environmental survey costs.

(2) To expedite soil investigations and reduce efforts needed in obtaining a new ACOE permit, Agency staff has been coordinating with ACOE to allow the activities to be included as part of the Agency's ACOE O&M permit. IEUA staff anticipates receiving the permitting document by mid-February of 2014. Soil investigation will then continue after bird nesting season. In the meantime, the project development report will be completed before the soil investigation.

Project Photo:



San Sevaine Basin 5 - Berm



**GWR SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: DECEMBER 30, 2013**

The Inland Empire Utilities Agency’s existing Supervisory Control & Data Acquisition (SCADA) system is comprised of a wide range of equipment that is located at various remote sites and facilities throughout the IEUA’s RW and GWR facilities. During the master planning process, a thorough and comprehensive review and evaluation of the recycled water and groundwater recharge SCADA system was conducted. The Master Plan recommended SCADA upgrades to the RW and GWR SCADA systems. The purpose of these upgrades will provide the foundation of a robust, reliable and seamless control system that will sustain and support the continued growth of the RW and GWR programs.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$932,000		\$0		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11A	02/06/14	In Progress	\$3,942	\$0
Equipment Pre-purchase	11/11/11A	07/24/14	In Progress	\$0	\$0
Design	02/07/14	07/24/14	Not Started	\$98,231	\$0
Permits	04/02/14	11/24/15	Not Started	\$33,000.00	\$0
Bid and Award	07/25/14	09/17/14	Not Started	\$2,140.00	\$0
Construction	09/18/14	01/15/16	Not Started	\$794,678	\$0
				<u>\$931,991</u>	

The Agency is currently seeking additional funding with available state and federal grants. The Agency is also seeking a state revolving fund (SRF) loan through the Santa Ana Watershed Project Authority.

Project Update:

On December 12, 2013, the Agency received two proposals in response to the design service RFP solicitation. Staff will be coordinating a review panel to determine the most qualified. The review panel which will include invited staff from CBWM, CVWD, and SAWCO, is scheduled to meet on week of January 20, 2014. After selection and contract negotiation, the Agency's Board of Directors is scheduled to award staff's recommended firm on February 19, 2014.

Project Photo:



San Sevaine Turnout Control Panel



**COMMUNICATION UPGRADES
PROJECT NO. EN12019
STATUS UPDATE: DECEMBER 30, 2013**

This project will transition the communication equipment within the remote GWR and RW sites (totaling over 20 sites) onto the new, faster and more reliable communication network. The upgrade will replace the radio equipment for each site and add several new communication towers to send all communication onto the Agency's new 18GHz Motorola network back-haul. The Communication System Upgrades anticipates twenty-seven existing sites to be upgraded for integration with the new communication network, and seven monopoles necessary to improve the line-of-sight communication. The project will use a design/build approach in implementing the communication upgrades.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$1,594,390	\$64,931

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11A	01/27/14	In Progress	\$5,864	\$44,882
Equipment Pre-purchase	11/11/11A	07/29/14	In Progress	\$0	\$0
Design	01/20/14	07/29/14	Not Started	\$135,193	\$127
Permits	03/17/14	03/05/15	Not Started	\$46,000	\$0
Bid and Award	07/30/14	07/30/14	Not Started	\$0	\$0
Construction	07/30/14	06/24/15	Not Started	<u>\$1,098,100</u>	\$19,922
				\$1,285,157	

The Agency is currently seeking additional funding through available grants. The Agency is also seeking a state revolving fund (SRF) loan through the Santa Ana Watershed Project Authority.

Project Update:

On November 21, 2013, Dahl Taylor and Associates was the only firm that submitted a proposal.

After careful review of their experience, understanding of the project scope, and total fee cost, IEUA staff is recommending awarding a revised contract to DTA for preliminary design services only. The purpose for this approach is to confirm the full extent of the project scope and total construction cost.

Staff is scheduled to begin the pre-design on the January 13, 2014.

Project Photo:



Basin Communication Tower



**CB20 NOISE MITIGATION
PROJECT NO. EN14038
STATUS UPDATE: DECEMBER 30, 2013**

Provide sound mitigation measure for an imported recharge turnout (CB-20) in the City of Upland. The site is located within a residential area at the corner of Winston Avenue and E 18th Street. While the equipment is running, residents have complained to the City of the loud sound of rushing water. The majority of the noise is generated from a 24-inch flow control valve (Clay Valve) and a conical water discharge pipe. The sound produced by the equipment is above City Ordinance noise levels. A temporary measure was implemented to reduce the current noise levels by placing thin sound blankets over the valve and discharge pipe. The temporary measures have not fully reduced noise levels below the City Ordinance. A permanent solution is required to stay in compliance with City Ordinance. This project will be implemented by using a design/build approach.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$160,000		\$502		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	09/25/13A	01/16/14	In Progress	\$11,382	\$502
Design	01/17/14	02/27/14	Not Started	\$9,090	\$0
Construction	02/28/14	06/30/14	Not Started	\$139,528	\$0
				<u>\$160,000</u>	

Project Update:

On December 5, the Agency received a single proposal in response to the RFP solicitation. The proposal came from C.E Pickup, a qualified sound specialist. Staff proceeded with a new contract for CE Pickup to provide full design/build services for a sound enclosure at CB20 Turnout.

The project kick-off will begin in the week of January 13, 2014.

Project Photos:



CB-20 Turnout Facility



CB20 Outlet while in use