



TURNER BASIN IMPROVEMENTS
PROJECT NO. WR11017.00
STATUS UPDATE: JANUARY 28, 2015

The project involves grading and hauling activities and the design and installation of new pipes, gates, and controls for two new recharge basins east of Turner Basin No. 4. This project also connects an existing flood control retention facility, Basin No. 5, to capture additional stormwater and recycled water for groundwater recharge by constructing new stormwater piping from Deer Creek Channel into Basin No. 8 which feeds into Basin No. 5. This will allow the Turner Basin site to receive and capture channel flow further upstream and increase recharge potential. The goal of the project is to bring in an additional 600 acre-feet of annual recharge through stormwater and recycled water.

Schedule:

<u>Project Budget</u> \$1,275,000	<u>Actual Cost to Date</u> \$1,270,873
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<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	03/01/11	02/22/12	Completed	\$32,622	\$35,380
Pre-design	02/22/12	04/01/12	Completed	\$13,419	\$75,548
Environmental Impact	03/01/11	12/20/12	Completed	\$72,892	\$74,197
Design	04/02/12	02/22/13	Completed	\$120,772	\$122,203
Permits	03/30/12	12/20/12	Completed	\$9,927	\$9,927
Bid and Award	12/21/12	02/20/13	Completed	\$2,736	\$2,747
Construction	02/20/13	02/27/15	In Progress	\$1,022,632	\$950,871
				\$1,275,000	\$1,270,873

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

Cost Sharing Document: 2014 Amendment to the Turner/Gausti Cost Sharing Agreement 2012

Project Update:

The project will be substantially completed before the end of February, with the exception of any remaining stock piles that the grader has requested to leave in order to allow more time for removal. They plan to be off-site by end of March. In the meantime, the project will begin close-out procedures and finalize cost-sharing invoices with Watermaster.

Project Photos:



Completed junction structure



Completed valve and structure



Completed new south basin (Turner 4c)



Completed new outlet basin north of Gausti Park (Turner 8)



New north basin (Turner 4b) – grading/hauling in progress



FINAL UPDATE

**WINEVILLE PROOF OF CONCEPT
PROJECT NO. EN13031.00
STATUS UPDATE: JANUARY 28, 2015**

The Wineville Basin Proof of Concept Project (POC) was developed to provide information and data to determine the likely benefit if the basins were improved to facilitate artificial groundwater recharge. The primary objectives of the POC were to measure basin infiltration rates and use those rates to estimate the likely annual recharge capacity of the basin. The investigative project consisted of six cells designed to test and evaluates infiltration rates at strategic locations throughout the Basin. Each of the test cells were 0.5 acres in size and excavated at different depths to gather percolation data for soils above and below identified clay layer. The study was completed in April 2014 and concluded that the basin presents an opportunity for groundwater recharge.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$424,300	\$353,505

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Design	01/11/13	04/30/14	Completed	\$22,000	\$22,000
Weeding	09/01/13	09/30/13	Completed	\$28,000	\$28,000
Permits	04/24/13	01/17/14	Completed	\$2,200	\$2,200
Environmental Assist.	03/01/13	11/30/13	Completed	\$22,600	\$18,800
Survey	09/01/13	11/30/13	Completed	\$21,000	\$11,767
Construction	06/19/13	04/30/14	Completed	\$208,000	\$198,760
Extra Equipment	10/01/13	11/30/13	Completed	\$7,500	\$7,500
Ontario Pump Costs	10/01/13	11/30/13	Completed	\$19,967	\$19,967
CM/Testing Support	09/01/13	04/30/14	Completed	\$50,000	\$44,511
Contingency				\$43,033	
				<u>\$424,300</u>	<u>\$353,505</u>

Cost Sharing Document: Task Order No. 6 of the Master Agreement of 2014

Project Update:

This project is completed. The final invoice to Watermaster was sent in January 2015. CBWM issued payment for the invoice on January 26th. No further updates will be provided.

Final Project Data:

Table 1 - Projected Basin Performance Summary in Acre-Feet per Year (AFY)

Scenario	Infiltration Rate	Stormwater Recharge	Supplemental Water Recharge	Total Annual Recharge
No. 1	0.13 ft./day	820 AFY	940 AFY	1,760 AFY
No. 2	0.24 ft./day	2,080 AFY	1,750 AFY	3,830 AFY

Figure 1- Image the of the temporary infiltration test cells constructed at Wineville





JURUPA PUMP STATION HVAC IMPROVEMENTS
PROJECT NO. EN14040
STATUS UPDATE: JANUARY 28, 2015

The Jurupa Pump Station (PS) is a key recharge facility that directly conveys storm water runoff, local runoff, imported and recycled water to Cell 1A at the RP-3 Basin. The PS is located on the north-east corner of Jurupa Basin which acts as a pass through basin for flows intercepted at the nearby San Sevaine Channel. The PS' electrical equipment, such as the motor control center, variable frequency drives (VFDs) and communication equipment, is critical to the operation of the pump station. With high temperatures experienced at the PS, vital controls and switches have been experiencing temperature related failures and shutdowns. The HVAC improvements will address these critical failures by installing 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		\$77,584		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	09/02/13	10/30/13	Completed	\$3,000	\$3,031
Pre-design	10/31/13	03/03/14	Completed	\$5,000	\$2,731
Proposal	03/04/14	05/14/14	Completed	\$12,000	\$7,257
Design/Build	05/14/14	10/06/14	Completed	\$186,000	\$64,565
				\$206,000	\$77,584

Cost Sharing Document: Task Order No. 5 of the Master Agreement of 2014

Project Update:

This project is completed. Final invoicing for Watermaster's share is in progress.

Project Photos:



Existing MCC control panel



Existing pumping system



Installed AC unit



Installed ceiling insulation and AC air ducting



SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: JANUARY 28, 2015

As part of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), this Project will evaluate, design and construct basin improvements needed to maximize infiltration and recharge capture at the San Sevaire Basins. The final recommendation from the Preliminary Development Report proposes to implement: (1) a new stormwater/recycled water pump station in Basin 5, (2) directly tie into an existing RW pipeline, (3) place new pipelines and headwalls into Basins 1, 2, and 3, and (4) install monitoring wells and lysimeters. The proposed improvements will meet the RMPU goal to add 642 acre-feet per year of stormwater and 4,100 acre-feet per year of recycled water for groundwater recharge.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$6,500,000*		\$159,728		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Pre-design	10/01/12	04/15/15	In Progress	\$252,300	\$140,688
Environmental Impact	06/26/13	05/23/15	In Progress	\$32,200	\$0
Design	4/19/15	11/24/15	Not Started	\$355,000	\$0
Permits	05/15/13	11/24/15	In Progress	\$142,300	\$19,040
Bid and Award	11/25/15	01/20/16	Not Started	\$11,600	\$0
Construction	01/21/16	04/25/17	Not Started	\$5,706,600	\$0
				<hr/>	<hr/>
				\$6,500,000	\$159,728

*The project budget is raised to the expected design and construction cost as detailed in completed Preliminary Development Report. This new cost is pending final approval by Watermaster Board in March 2015.

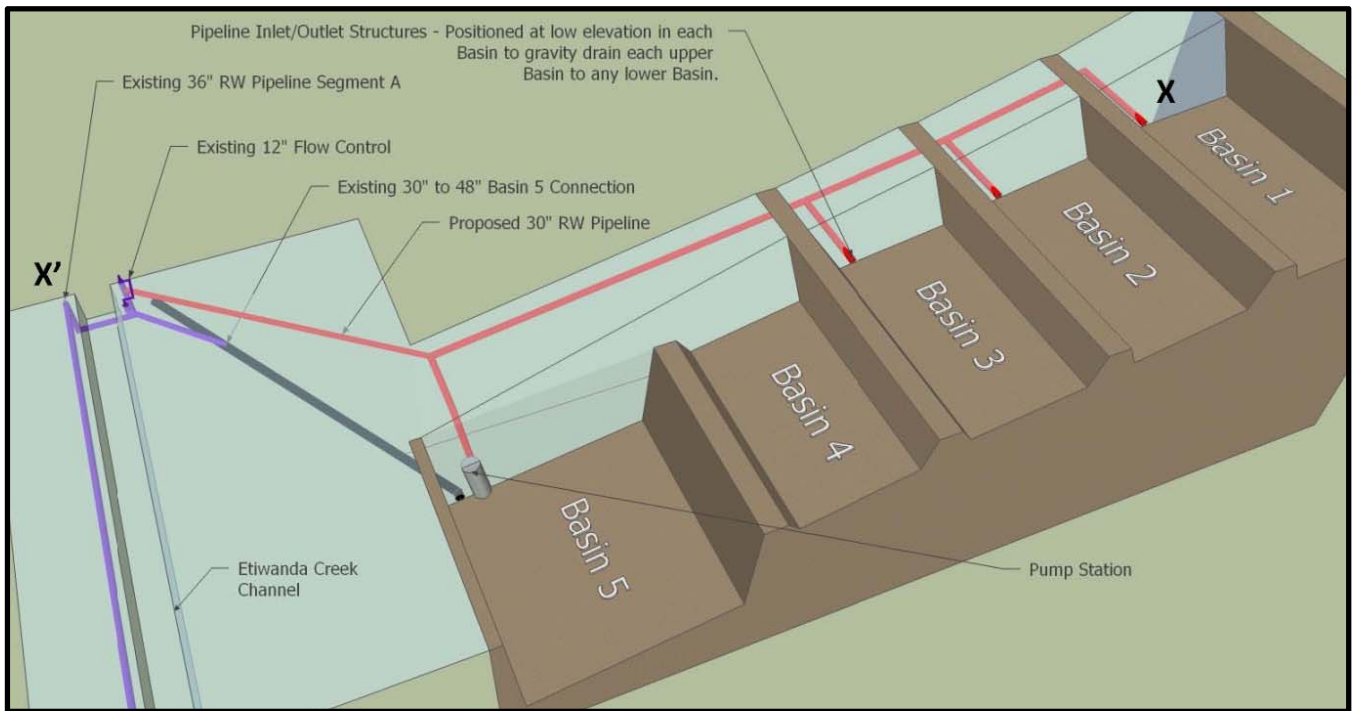
The project was approved for a \$750,000 grant from the Department of Water Resources through the Santa Ana Watershed Project authority as part of Proposition 84.

Cost Sharing Document: Task Order No. 8 of the Master Agreement of 2014

Project Update:

Staff is forwarding to the Committees and Board its request to begin a basin design based on the final recommendation from the Preliminary Development Report which was reviewed, discussed, commented and accepted by CBWM/IEUA staff and CBWM's engineers, Wildermuth. In the meantime staff is currently soliciting for design consulting services that will prepare construction plans and specifications based on the final recommendation and provide engineering support services during the scheduled construction phase. Staff is also currently applying for additional grant funding of \$250,000 on this project under the Bay-Delta Restoration Program.

Conceptual Design:



Isometric View of the Recommended Basin Improvement
Pump Station in Basin 5 and Extension of the Recycled Water Pipeline to Basins 1, 2, and 3



GWR SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: JANUARY 28, 2015

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 IEUA’s 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. Under this project, five recharge basins, which also operate a rubber dam system, will be replaced with newer, reliable and fully supported programmable logic controllers (PLC). The current PLCs are outdated and lack critical replacement support. The upgrade will extend the system’s reliable use by 10 years and provide the initial development model when transitioning the other controllers in the future.

Schedule:

<u>Project Budget</u> \$892,000	<u>Actual Cost to Date</u> \$78,457
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<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	02/24/14	Completed	\$927	\$422
Design	02/26/14	03/13/15	In Progress	\$129,900	\$78,035
Permits	09/12/14	03/13/15	In Progress	\$10,000	\$0
Bid and Award	03/16/15	05/20/15	Not Started	\$428	\$0
Construction	05/21/15	04/16/16	Not Started	\$750,745	\$0
				\$892,000	\$78,457

This project qualified for a \$139,650 grant and a 1% interest 30-year loan at \$740,145 from the Santa Ana Project Water Authority and Clean Water State Revolving Fund loan program respectively.

Cost Sharing Document: Task Order No. 4 of the Master Agreement of 2014

Project Update:

The design consultant, MSO Technologies, has extended the final submittal date of the design plans to mid-February to address and incorporate on-going staff comments. The construction plans and specifications are expected to be finalized by late February. Construction bidding is pushed out to March 2015 and construction will start in May.

Project Photo:



San Sevaine turnout control panel



**COMMUNICATION UPGRADES
PROJECT NO. EN12019
STATUS UPDATE: JANUARY 28, 2015**

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 proposes to upgrade all GRW remote sites to the new communication radio systems. Each site will be equipped with new antennas and radios. The proposed plan to include new towers at select sites will be deferred and planned for later capital projects because these sites do not require immediate remote communication and control.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$1,245,000		\$180,543		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	01/17/14	Completed	\$5,771	\$5,771
Pre-Design	01/20/14	11/27/14	In Progress	\$130,000	\$130,000
RFP/Solicitation	11/30/15	03/18/15	In Progress	\$44,000	\$44,772
Design/Construction	03/19/15	11/12/15	Not Started	\$1,065,229	\$0
				<u>\$1,245,000</u>	<u>\$180,543</u>

This project qualified for a \$192,850 grant and a 1% interest 30-year loan at \$1,022,105 from the Clean Water State Revolving Fund loan program, as part of the Proposition 50 grant program, and a Department of Water Resources Proposition 84 grant program through Santa Ana Project Water Authority.

Cost Sharing Document: Task Order No. 3 of the Master Agreement of 2014

Project Update:

In January, IEUA received the final cost to replace the existing communication equipment with new Cambium (Motorola Type) Networks Point-to-Point radio solutions. Staff is scheduled to request for award of the installation services to Sun Wireless, who is a recommended supplier and installer that has provided quality services in the past on IEUA's existing system. The installation cost is \$826,294.

The following table summarizes the completed radio survey study:

Site	Remote Site	Distance	Tower Height (Feet)	Antenna Height
8th Street Basin	6-B	6.3 miles	Existing 55'	40' or above
Brooks Street Basin	6-B	10.8 miles	Existing 55'	55'
CB-11 MWD Turnout	6-B	1.6 miles	No tower (Need at least 45')	40' or above
CB-14 MWD Turnout	6-B	3.8 miles	No tower (Need at least 25')	20' or above
CB-15 MWD Turnout	6-B	2.5 miles	No tower (Need at least 20')	15' or above
CB-18 MWD Turnout	6-B	5.2 miles	No tower (Need at least 35')	30' or above
CB-20 MWD Turnout	6-B	4.8 miles	Need 10' extension on 25' square monopole or new 35' tower	30' or above
College Heights	CCWRF	8.2 miles	Existing 55'	40' or above
Declez Basin	6-B	10.2 miles	Existing 55'	40' or above
Ely 3 Basin	RP-1	0.5 miles	Existing 55'	15' or above
Grove Basin	6-B	10.8 miles	Existing 55'	40' or above
Hickory Basin	6-B	6.1 miles	Existing 55'	40' or above
Hickory FMM Turnout	RP-4	1.3 miles	Existing 55'	40' or above
Jurupa Basin	6-B	8.8 miles	Existing 55'	40' or above
Lower Day Basin	6-B	2.9 miles	Existing 55'	15' or above
Montclair Basin	CCWRF	7.3 miles	Existing 55'	40' or above
Orchard RW Turnout	6-B	10.2 miles	No tower (Need at least 20')	15' or above
RP-3	6-B	10.4 miles	Existing 55'	40' or above
San Sevaine 5RW Turnout	6-B	4.5 miles	Existing 55'	40' or above
San Sevaine Basin 5	6-B	4.6 miles	No tower (25' lamp post or new 25' tower)	25' or above
Turner Basin 1	6-B	6.4 miles	Existing 55'	40' or above
Turner Basin 4	6-B	6.4 miles	Existing 55'	50' or above
Upland Basin	CCWRF	8.0 miles	No tower (Need at least 45')	40' or above
Victoria Basin	6-B	4.7 miles	Existing 55'	40' or above
Wineville Basin	6-B	8.8 miles	No tower (Need at least 45')	40' or above

Sites that need attention



**CB20 NOISE MITIGATION
PROJECT NO. EN14038
STATUS UPDATE: JANUARY 28, 2015**

In 2010, a recharge basin turnout structure was constructed within the Metropolitan Water District's right-of-way in the residential area of the City of Upland. The turnout was to provide immediate access to available raw water for the purpose of groundwater storage. The Noise Mitigation Project is to reduce the impact of operating noise to the surrounding residences. Current sound studies reveal the facility generates noise levels above the allowable limits permitted by Upland's Ordinances. As a public service effort, IEUA and Chino Basin Watermaster initiated a capital project to design and build a sound enclosure by a qualified sound specialist. The objective is to maintain compliance with City Ordinance and reduce the impact of noise to nearby residents.

Schedule:

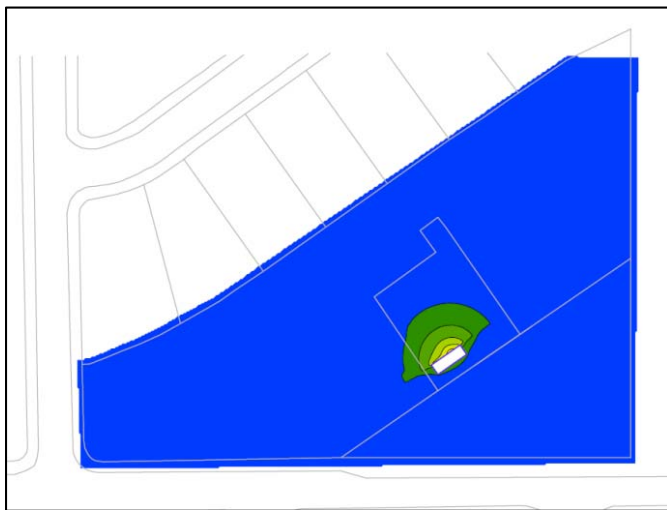
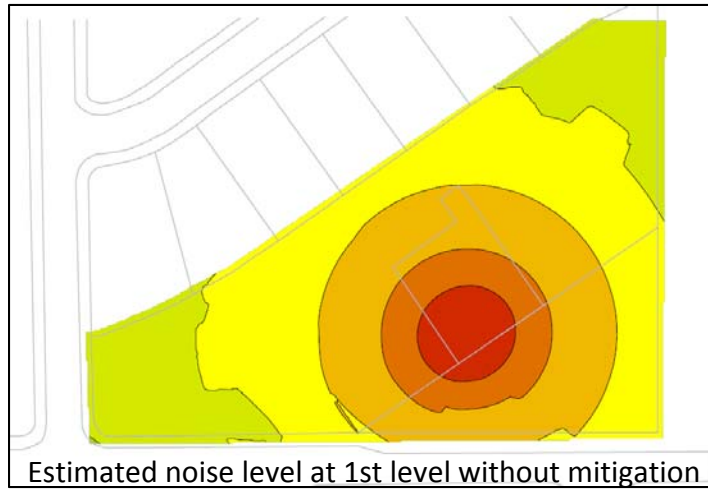
	<u>Project Budget</u> \$160,000		<u>Actual Cost to Date</u> \$29,476		
<u>Phase</u>		<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u> <u>Actual Cost</u>
Project Development		09/25/13	01/23/14	Completed	\$200 \$182
Design		01/24/14	11/26/14	In Progress	\$29,000 \$28,971
Construction		11/30/14	03/30/15	In Progress	\$130,800 \$323
					<hr/> \$160,00 \$29,476

Cost Sharing Document: CBFIP, Phase II Cost Sharing Agreement of 2006

Project Update:

The designer and installer of the sound enclosure requested an additional one month extension in receiving all required materials due to the extended delays from the manufacturer. In late 2014, the sound wall system manufacturer relocated to newer facilities which has created unanticipated delays in meeting production orders. The contractor is working with the manufacturer to ensure there are no further delays. Project completion is moved to April 2015.

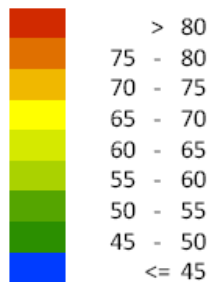
Sound study result which confirms the intended noise reduction with the added enclosure:



Estimated noise level at 1st level with mitigation

Estimated noise level at 2nd level with mitigation

Noise Level, dBA





**HICKORY BASIN ARIZONA CROSSING
PROJECT NO. EN12025
STATUS UPDATE: JANUARY 28, 2015**

The Hickory Basin Arizona Crossing Project designed and constructed a new soil cement access road and culvert over the inlet channel at the Hickory Basin. The purpose of the access road was to provide immediate maintenance and operational access for IEUA and San Bernardino Flood Control District (SBCFCD) personnel to the north area of the Basin without interrupting recharge or storm water detention operations. The goal of the project is to minimize maintenance costs and mitigate recharge interruptions due to basin dewatering when accessing critical pumping equipment for routine or emergency maintenance. Secondly, the access crossing was also a required condition with the Flood Control as part of a maintenance agreement to utilize the basin for continuous recharge. This project was a part of the Chino Basin Facilities Improvement Program, Phase II which was deferred due to Flood Control permitting approvals. In January 2012, the project re-commenced bidding after receiving full permitting documents from the District.

Schedule:

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$332,971	\$275,417

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Design	10/01/11	12/31/11	Completed	\$7,200	\$7,200
Permits	10/01/11	01/12/12	Completed	\$2,000	\$1,518
Bid and Award	01/12/12	03/21/12	Completed	\$1,200	\$307
Construction	03/22/12	04/17/13	Completed	\$222,571	\$211,392
Added Contingencies				\$100,000	\$55,000
				<u>\$332,971</u>	<u>\$275,417</u>

The added contingency was included into the project towards the later phase of construction to address potential change orders with the General Contractor.

Cost Sharing Document: CBFIP, Phase II Cost Sharing Agreement of 2006

Project Update:

Project is completed. Final cost sharing invoicing with CBWM will be sent. This will address the recently accepted construction cost settlement.

Project Photo:



Completed access road leading to the north side of Hickory Basin



Completed Arizona Crossing which spans the inlet channel



**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: JANUARY 28, 2015**

The purpose of the Habitat Conservation Plan is to investigate and develop a plan to offset the biological impact of future water and recharge improvement projects in the Chino Basin area that have the potential to affect federally-listed endangered, threatened or special status species. This project will be a part of a regional plan with other proposed projects within the Upper Santa Ana River Region. The goal of the project is to identify in advance sites that may require biological offset/mitigation and avoid permitting delays on future RMPU projects or other identified recharge improvement projects.

Schedule:

	<u>Project Budget</u>	<u>Actual Cost to Date</u>			
	\$160,000	\$0			
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Investigate/Plan	07/01/14	06/30/17	In Progress	\$160,000	\$0
				<hr/> \$160,000	<hr/> \$0

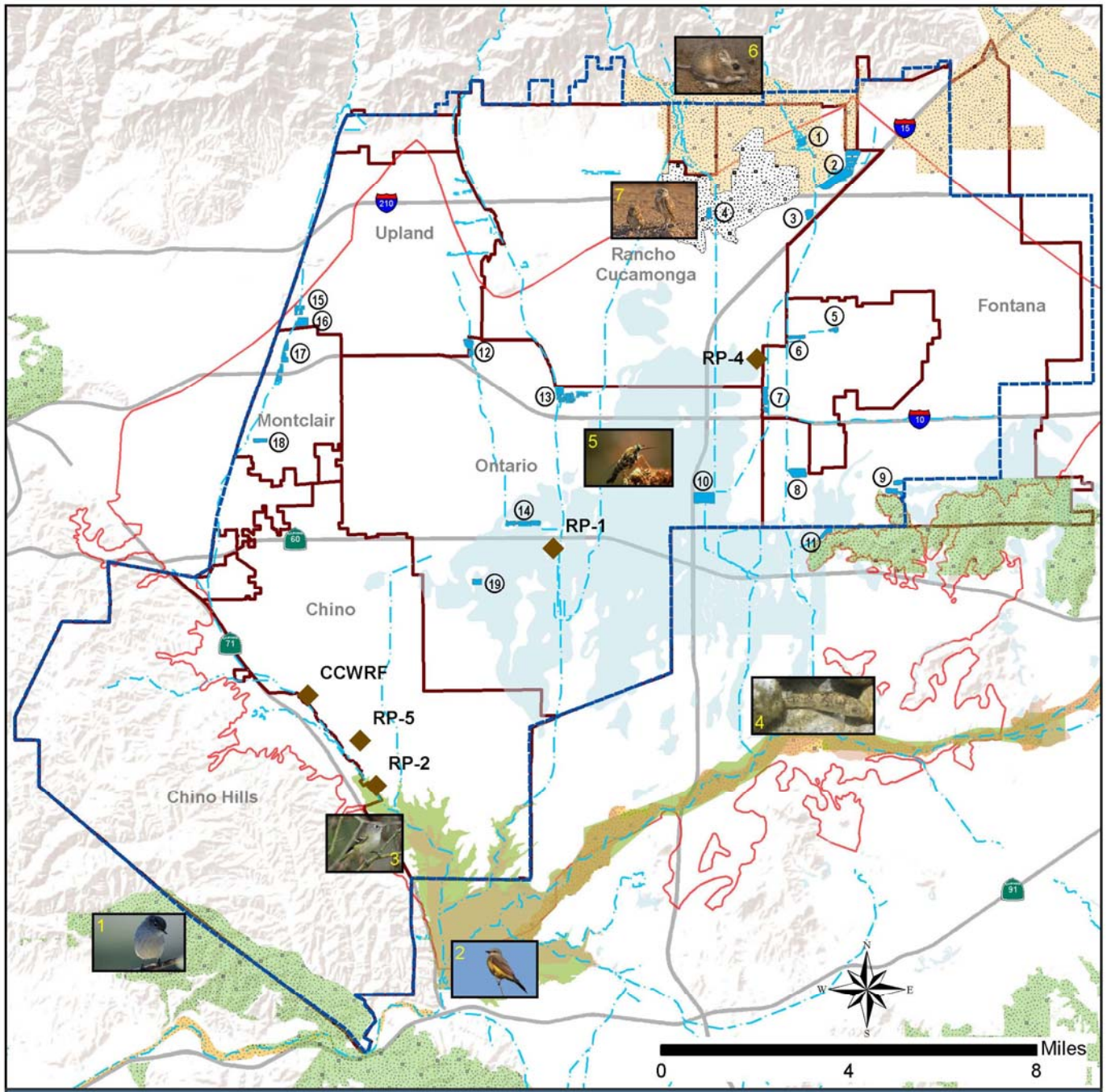
Cost Sharing Document: Task Order No. 7 of the Master Agreement of 2014

Project Update:

The HCP team has refined the covered activities for the proposed projects and is entering the hydraulic modeling phase. Hydraulic modeling will be used to determine the overall impacts to the Santa Ana River from all of the projects in the HCP which include the following RMPU project sites.

<u>RMPU Projects</u>	<u>Location</u>	<u>Potential Species</u>
PID - 19a	Wineville Basin	DSF
PID - 12	Lower Day Basin	SBKR, CAGN, BUOW
PID - 7	San Sevaine Basins (1-5)	SBKR
PID - 11	Victoria Basin	SBKR
PID - 2	Montclair Basins (1-3)	CAGN

DSF=Delhi Sands Flower-Loving Fly; SBKR=Merriam's San Bernardino Kangaroo Rat; CAGN=California Gnatcatcher; BUOW=Burrowing Owl



Legend		Endangered Species Habitat Ranges		Recharge Basins	
	Regional Plants		1. California Gnatcatcher		Etiwanda Debris Basin - (SBCFCD)
	Rivers/Channels		2. Southwestern Willow Flycatcher		San Sevaire Basins - (SBCFCD)
	CBWM Service Area		3. Least Bell's Vireo		Victoria Basin - (SBCFCD)
	IEUA Service Area		4. Santa Ana Sucker		Lower Day Basin - (SBCFCD)
	Cities Boundary		5. Delhi Sands Flower-Loving Fly		Banana Basin - (SBCFCD)
	Freeways		6. Merriam's San Bernardino Kangaroo Rat		Hickory Basin - (SBCFCD)
			7. Borrowing Owl		Etiwanda Conservation Basins - (SCE)
					Jurupa Basin - (SBCFCD)
					RP-3 Basin - (IEUA)
					Wineville Basin - (SBCFCD)
					Declez Basin - (SBCFCD)
					8th Street Basin - (SBCFCD)
					Turner Basins - (SBCFCD/CBWCD)
					Ely Basins 1,2 and 3 - (SBCFCD/CBWCD)
					College Heights Basins - (CBWCD)
					Upland Basin - (Upland)
					Montclair Basins - (CBWCD)
					Brooks Street Basins - (CBWCD)
					Grove Basin - (SBCFCD)



**2013RMPU AMENDMENT YIELD ENHANCEMENT PROJECTS
PROJECT NO. RW15003
STATUS UPDATE: JANUARY 28, 2015**

The 2013 Amendment to the 2010 Recharge Master Plan Update recommended that the yield enhancement projects listed below be implemented for preliminary-design, environmental review, permitting, and final design.

ID	Basin Projects	Key Project Improvements	Original RMPU Yield		Adjusted Yield	
			SW	RW	SW	RW
			acre-feet per year			
18a	CSI Storm Water Basin	New storage and recharge facility by deepening/removing 36,000 CY	81	-	81	-
23a	Wineville, Jurupa, and RP3	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	3,166	2,905
27	Declaz Basin	Improve capacity by modifying existing/adding new structures	241	-	241	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	43	120
14	Turner Basin	Increase storage and recharge by raising the spillway height	66	-	66	-
15a	Ely Basin	Improve storage and recharge by removing 470,000 CY	221	-	221	-
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	248	-
25a	Sierra	Improve storage and recharge by removing 40,000 CY <i>(Removed-no longer feasible)</i>	64	-		
17a	Lower San Sevine Basin	Construct a new storage flow through basin <i>(Removed-no longer feasible)</i>	1,221	-		
-	East Declaz Basin	<i>New basin towards the east (Added - Potential new RMPU project)</i>			913	-
			5,351	3,025	4,979	3,025

Schedule:

	<u>Original Soft Cost</u>		<u>Adjusted Soft Cost*</u>		<u>Actual Cost to Date</u>	
	\$8,122,500		\$5,469,500		\$658	
<u>Soft Cost Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>	
Project Development	07/01/14	04/15/15	In Progress	\$39,100	\$658	
Preliminary Design	04/16/15	08/26/16	Not Started	\$993,300	-	
Environmental	02/19/15	08/29/16	Not Started	\$388,600	-	
Design	08/29/16	12/29/17	Not Started	\$3,774,400	-	
Permits	08/29/16	12/29/17	Not Started	\$274,100	-	
				\$5,469,500	\$658	

*PID 25a and PID 17a removed and added the cost of the East Declaz

Cost Sharing Document: Task Order No. 1 of the Master Agreement of 2014

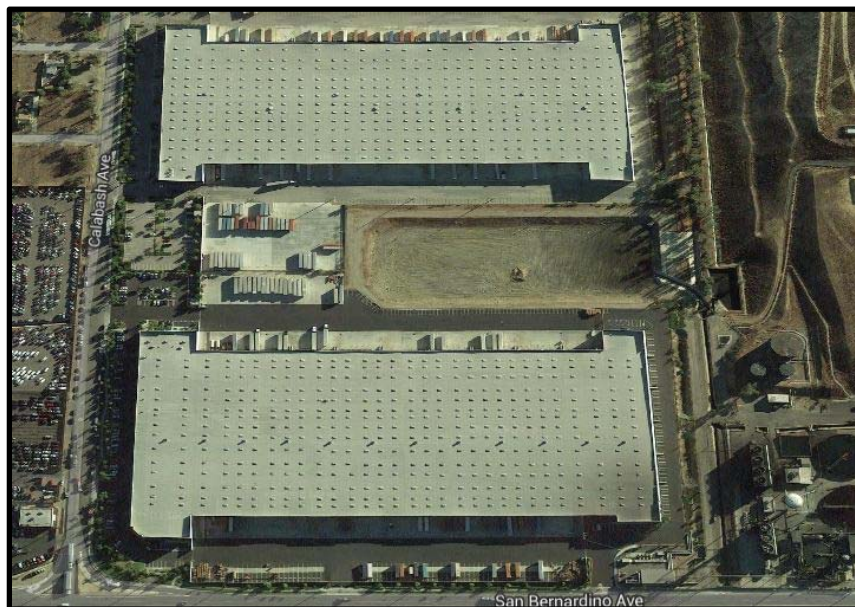
Project Update:

Staff is recommending the addition of the East Declez Basin Project as potential replacement for the Lower San Sevaine Basin and Sierra Basin. The chart on page 1 reflects the estimated new storm water yield and design cost based on the proposed project adjustments.

Project Photo:



Aerial of Victoria Basin



Aerial of CSI Basin



**LOWER DAY RMPU IMPROVEMENTS
PROJECT NO. RW15004
STATUS UPDATE: JANUARY 28, 2015**

This project will modify the existing intake structure and install pneumatic gates in the channel. The pneumatic gates will monitor and self-adjust to maintain a water level or rate of discharge over the gate structure in accordance with an established programmable logic controller. The basin's existing embankment will be evaluated and reconstructed to meet the requirements of a dam embankment with the Division of Safety of Dams. Improvement on the embankment may include excavation and keying to prevent piping and seepage.

The potential increase in recharge with the inlet is 789 acre-feet per year as per 2010 RMPU.

Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$2,480,000		\$8,140		
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	07/01/14	12/17/14	Completed	\$5,000	\$3,043
Pre-Design	12/18/14	04/10/15	In Progress	\$50,000	\$5,097
Design	04/13/15	02/10/16	Not Started	\$145,275	-
Environmental Impact	07/08/15	02/09/16	Not Started	\$76,200	-
Permits	07/08/15	02/02/16	Not Started	\$66,000	-
Bid and Award	02/11/16	04/20/16	Not Started	9,000	-
Construction	04/21/16	05/31/17	Not Started	\$2,128,525	-
				\$2,480,000	\$8,140

Cost Sharing Document: Task Order No. 2 of the Master Agreement of 2014

Project Update:

A preliminary design kick-off, was held on December 18, 2014 at IEUA with the Consultant, Scheevel Engineering. The schedule is to complete the pre-design during March 2015 and begin design in April 2015. Staff is also currently applying for additional grant funding of \$250,000 on this project under the Bay-Delta Restoration Program.

Project Photo:



Aerial photo of the project site



Field photo showing the location of the proposed improvement to the existing channel to increase storm water capture