

# Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES  
PROJECT NO. EN14047  
STATUS UPDATE: December 4, 2017**

During Inland Empire Utilities Agency’s asset review of the existing Supervisory Control & Data Acquisition (SCADA) system, a thorough and comprehensive evaluation of the recycled water (RW) and groundwater recharge (GWR) control system was conducted. A Master Plan was developed; and it recommended critical upgrades to the RW and GWR SCADA systems. The purpose of this project is to provide control system improvements to sustain and support the continued growth of the RW and GWR programs. Under this project, five recharge basins which operate a rubber dam system will be replaced with newer, reliable and fully supported programmable logic controllers (PLCs). The current PLCs are outdated and lack critical product and technical support. The upgrade will extend the site’s reliability by 10 years and provide the initial development model when transitioning other sites to newer controllers.

**Schedule:**

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$892,000		\$690,365		
<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	\$422	\$422
Design	02/26/14	01/15/16	Completed	\$186,512	\$186,512
Permits	09/12/14	01/15/16	Completed	\$42	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$3,461	\$3,461
Construction**	04/21/16	10/31/17	In Progress	\$520,053	\$499,928
				\$710,490	\$690,365

\*Projected cost was increased but remains below the project budget of \$892,000.

**Grant/Loan Update:**

Awarded 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:**

Trimax is nearing contract completion. They completed a majority of the new equipment installation and programming updates to all rubber dam basin sites and the computer screen interface modifications at the DCS (distributed control system) level. Currently IEUA staff and Trimax are finalizing system checks before completing and closing out the project. The project is scheduled to close out by the end of December or early January.

The projected cost has exceeded initial estimates by roughly \$100,000 due to the extended construction, but it remains below the project's approved budget.

**Project Photos:**



San Sevaine Turnout control panel



Rubber Dam control panel



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**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN  
PROJECT NO. RW15002  
STATUS UPDATE: December 4, 2017**

The purpose of the Habitat Conservation Plan (HCP) 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:**

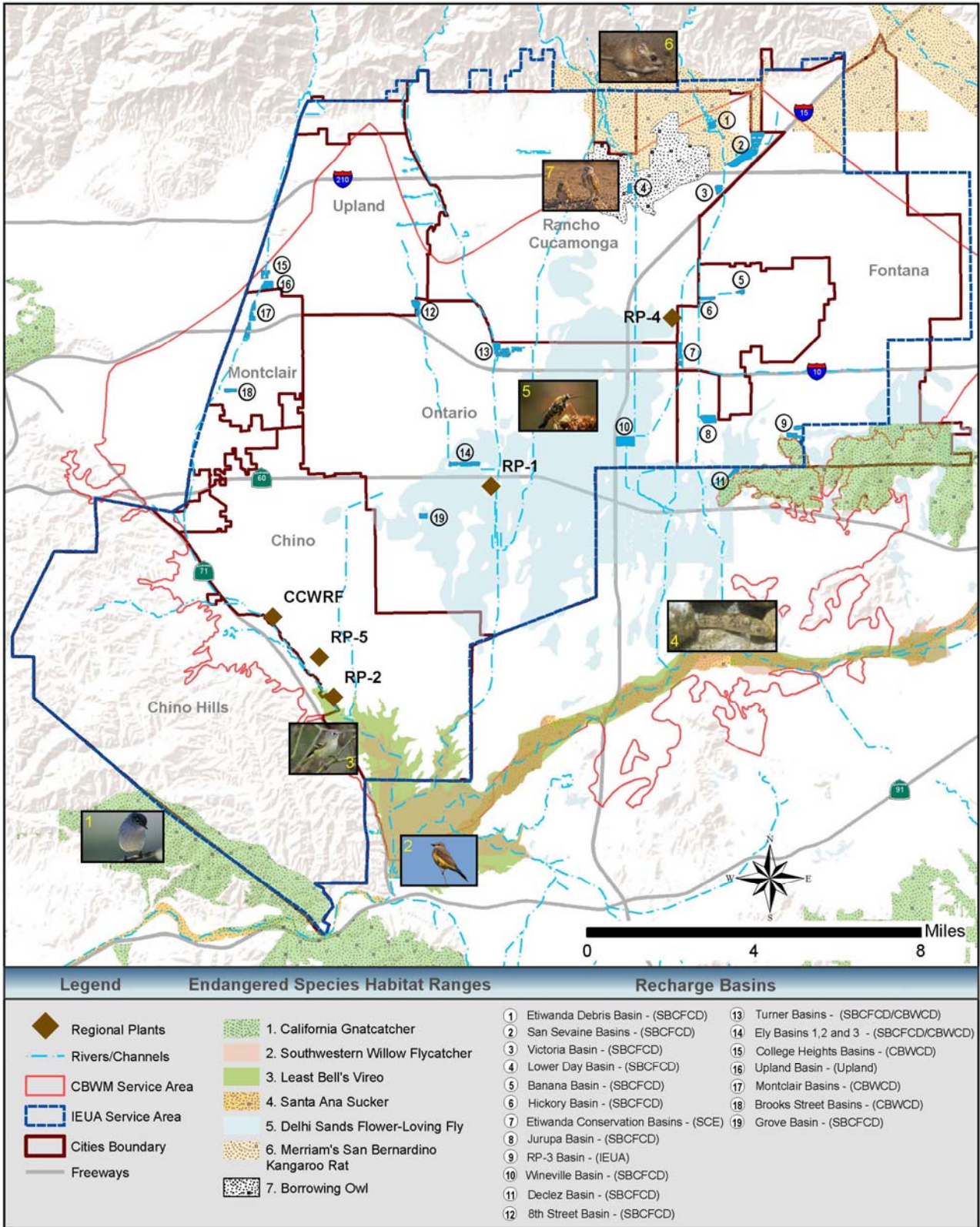
<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$160,000	\$137,873

<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	06/30/18	In Progress	\$160,000	\$137,873
				\$160,000	\$137,873

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

**Project Update:**

IEUA continues to work with the HCP team to complete the study by June of 2018.



# RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT**  
**PROJECT NO. EN13001**  
**STATUS UPDATE: December 4, 2017**

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 tying it 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 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> \$6,460,000	<u>Actual Cost to Date</u> \$797,507
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<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	05/14/15	Completed	\$160,000	\$159,898
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$24,283
Design	05/15/15	12/12/16	Completed	\$500,000	\$555,899
Permits	05/15/13	11/30/17	In Progress	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	In Progress	\$5,000	\$5,000
Construction	09/21/17	09/21/18	Not Started	\$5,740,000	\$27,427
				\$6,460,000	\$797,507

**Grant/Loan Update:**

Awarded a \$750,000 state grant from the Department of Water Resources through the Santa Ana Watershed Project Authority as part of Proposition 84 and a \$375,000 federal grant from the US Bureau of Reclamation.

**Cost Sharing Document:**

- Task Order No. 8 of the Master Agreement of 2014 (August 2014)
- 1<sup>st</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (April 2015)
- 2<sup>nd</sup> Amendment Tsk Order No. 8 of the Master Agreement of 2014 (May 2017)

**Project Update:**

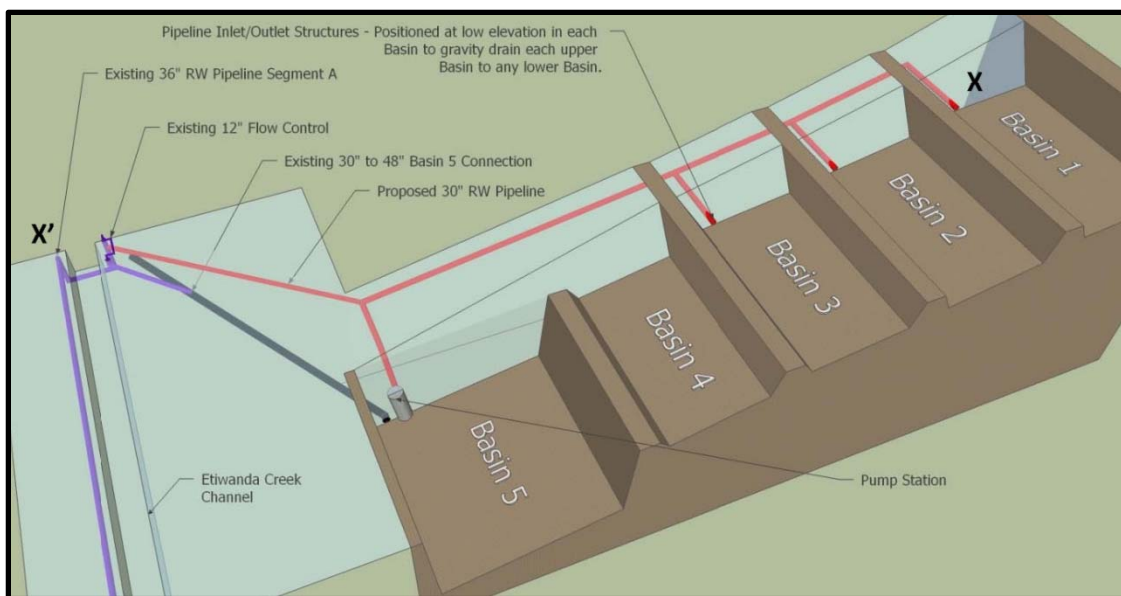
The Monitoring Well and Basin Improvement request for public bids closed on June 1 and July 13, respectively. The lowest responsible/responsive bidders were Yellow Jacket Drilling for the

Monitoring Well and Gwinco Construction and Engineering for the Basin Improvements. Both bids received IEUA Board approval on September 20, 2017.

The basin improvement construction is still on schedule. Over 90-percent of the submittals were reviewed and approved. IEUA anticipates all remaining permits will be issued before any field work commences which is scheduled for January 2018.

In the meantime, effort for a portion of the monitoring well construction is on temporary hold until further investigation of recycled water impacts to the nearby drink well at the Unitex properties is completed. Current findings are showing the surface recharge of recycled water may not have the required retention time before reaching the Unitex well. The one mounding monitoring well adjacent to the basins is not impacted and will continue. The intermediate monitoring well is the portion on hold.

### Conceptual Design:



POST 2014 STORMWATER RECHARGE PROGRAM  
PROJECT NOS . RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00  
STATUS UPDATE: December 4, 2017

On November 17, 2016, the Watermaster Board approved the “Post 2014 Stormwater Recharge Program” as part of the results and findings presented from the completed preliminary design report on the yield enhancement projects under the 2013 Amendment to the 2010 Recharge Master Plan Update. The following are the projects under the “Post 2014 Stormwater Recharge Program” that are recommended for final design, bid and construction:

PID	Basin Projects	Post 2014 Stormwater Recharge Program <sup>(2)</sup>	Initial Yield		Updated Yield <sup>(1)</sup>	
			SW	RW	SW	RW
			acre-feet per year			
12	Lower Day Basin	Increase stormwater diversion and basin storage	789	-	993	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	75	120
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	96	-
18a	CSI Basin <sup>(3)</sup>	New storage and recharge facility by deepening basin	81	-	-	-
23a	Wineville, Jurupa, RP3 & Force Main	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	2,921	2,905
			<b>4,327</b>	<b>3,025</b>	<b>4,085</b>	<b>3,025</b>

(1) Updated to reflect new values as calculated after the completion of the PDR

(2) San Sevaine Basin Improvement project is a part of the “Post 2014 Stormwater Recharge Program” but it is not list here for it has its own status update sheet.

(3) 18a (CSI) removed from the list of ongoing RMPU projects. Updated yield value of 100 AFY is removed.

**Schedule:**

Phases	Project Budget		Actual Cost to Date		
	Start	Finish	Status	Projected Cost	Actual Cost
Project Development	07/01/14	12/17/14	Completed	\$ 189,256	\$189,256
Preliminary Design	12/18/14	06/21/17	Completed	\$ 1,221,000	\$1,220,867
Environmental	12/18/14	12/31/17	In Progress	\$ 280,000	\$280,000
Permits	12/18/14	03/12/18	In Progress	\$ 236,200	\$74,977
Design	06/22/17	03/12/18	In Progress	\$ 1,580,262	\$324,933
Bid and Award	03/13/18	06/20/18	Not Started	\$32,500	\$0
Construction	06/22/18	12/31/19	Not Started	\$ 19,465,500	\$0
				<b>\$23,004,718</b>	<b>\$2,090,033</b>

### On Going RMPU Projects:

RMPU Project		Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)		\$4,008,000	\$319,446
Victoria Basin <sup>(4)</sup> (PID 11)		\$168,800	\$14,409
Montclair Basins (PID 2)		\$1,788,100	\$152,638
RP-3 Basin <sup>(4)</sup>	(23a)	\$126,910	\$124,696
Wineville Basin		\$306,284	\$300,941
Jurupa Basin		\$121,557	\$119,437
Wineville/Jurupa Force Main		\$852,285	\$837,417
<b>Total</b>		<b>\$22,447,800</b>	<b>\$1,893,530</b>

(4) Cost shared between IEUA and Watermaster

### Deferred RMPU Projects:

As of September 21, 2017, Watermaster stakeholders updated the list of deferred RMPU projects with the CSI Basin. The projected expenses and actual costs to each deferred project:

Project/Phase	Projected Expenses	Actual Cost (to date)
<b>East Declez</b>		
Project Development	\$114,000	\$112,829
<b>Sub-Total</b>	<b>\$114,000</b>	<b>\$112,829</b>
<b>Declez Basin (PID 27)</b>		
Project Development	\$2,600	\$2,600
Preliminary Design	\$71,000	\$3,913
Environmental	\$31,400	
<b>Sub-Total</b>	<b>\$105,000</b>	<b>\$6,513</b>
<b>Turner Basin (PID 14)</b>		
Project Development	\$1,000	\$1,000
Preliminary Design	\$28,400	\$1,605
Environmental	\$12,600	
<b>Sub-Total</b>	<b>\$42,000</b>	<b>\$2,605</b>
<b>Ely Basin (PID 15a)</b>		
Project Development	\$5,900	\$5,900
Preliminary Design	\$159,600	\$8,738
Environmental	\$70,500	
<b>Sub-Total</b>	<b>\$236,000</b>	<b>\$14,638</b>
<b>CSI Basin (PID 18a)</b>		
Project Development	\$1,000	\$1,000
Preliminary Design	\$29,000	\$29,000
Environmental	\$13,000	\$13,000
Design	\$16,918	\$16,918
<b>Sub-Total</b>	<b>\$59,918</b>	<b>\$59,918</b>
<b>Total</b>	<b>\$556,918</b>	<b>\$196,503</b>

## Grant/Loan Update:

Received a \$300K grant award from the US Bureau of Reclamation for the RP-3 Basin Improvement and received an award notice for nearly \$8.3 million from SWRCB for the 23a project.

## Cost Sharing Document:

- Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 1<sup>st</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2<sup>nd</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2<sup>nd</sup> Amendment Task Order No. 1 of the Master Agreement of 2014 (Deferred Projects)
- Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- 1<sup>st</sup> Amendment Task Order No. 2 of the Master Agreement of 2014 (PID 12)
- Task Order No. 9 of the Master Agreement of 2014 (PID 23a)
- Task Order No. 10 of the Master Agreement of 2014 (PID 11)
- Task Order No. 11 of the Master Agreement of 2014 (PID 2)

Overview of Task Orders' cost sharing amount with grants:

Deferred Projects (Task Order No.1)	Total
Watermaster	\$497,000
IEUA	\$0
Total	\$497,000
Lower Day Basin (Task Oder No. 2)	Total
Watermaster	\$2,883,000
IEUA	\$0
Grant Funding	\$1,125,000
Total	\$4,008,000
PID 23a (Task Order No. 9)	Total
Watermaster	\$7,554,135
IEUA	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
Total	\$16,482,900
Victoria Basin (Task Order No. 10)	Total
Watermaster	\$84,400
IEUA	\$84,400
Total	\$168,800
Montclair Basin (Task Order No. 11)	Total
Watermaster	\$1,788,100
IEUA	\$0
Total	\$1,788,100
CSI Basin (Task Order No. 12)	Total
Watermaster	\$59,918
IEUA	\$0
Total	\$59,918

CSI Basin Task Order

Task Order amendment required to remove CSI and show remaining cost

**Project Update:**

- 1) The 30% and 50% design plans and specification were completed in September and November respectively. 85% submittals are due in mid-January.
- 2) Stantec is taking the lead in preparing detailed plans and specifications to demolish and excavate the area within RP-3 to create the additional recharge basins as recommended during the preliminary design phase. Carollo will provide the plans for basin improvements. Both plans will be combined in December to begin the bidding process in early January.
- 3) With the adopted Program EIR which included the planning level RMPU projects, Environmental Consultant, Tom Dodson, is addressing sight specific investigations of each on-going projects to meet CEQA-Plus requirements and to complete the environmental forms for the SRF Funding application. This is expected to be completed before the end of December 2017.