

Non-RMPU Ongoing Projects



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GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: September 9, 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 The current PLCs are outdated and lack critical product and technical support.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		\$587,773		
<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	\$450	\$422
Design	02/26/14	01/15/16	Completed	\$192,312	\$186,512
Permits	09/12/14	01/15/16	Completed	\$50	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$4,000	\$3,461
Construction*	04/21/16	10/31/17	In Progress	\$413,678	\$397,336
				<u>\$610,490</u>	<u>\$587,773</u>

*Received bids reduced projected construction cost.

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

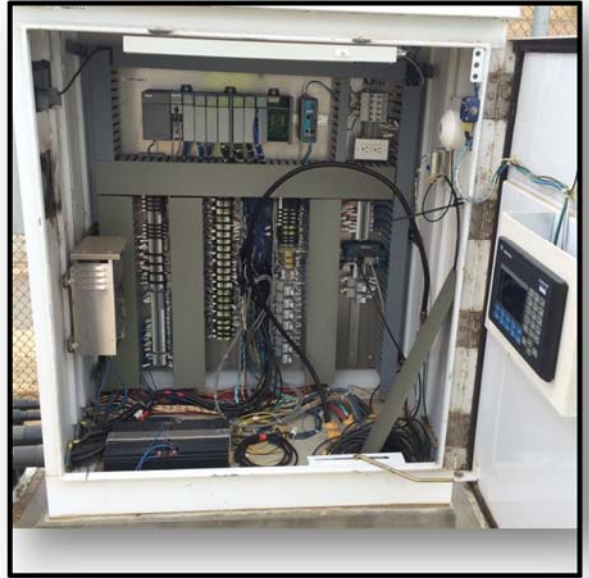
Project Update:

Trimax is nearing contract completion. Their schedule is to finalize all field programming and installation by the end of September. Following this will be an extensive quality check with Trimax to confirm that the finished upgrades meet specifications. The project is expected to end the construction contract by mid or late October

Project Photos:



San Sevaine Turnout control panel



Turner Basin control panel



UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: September 9, 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:

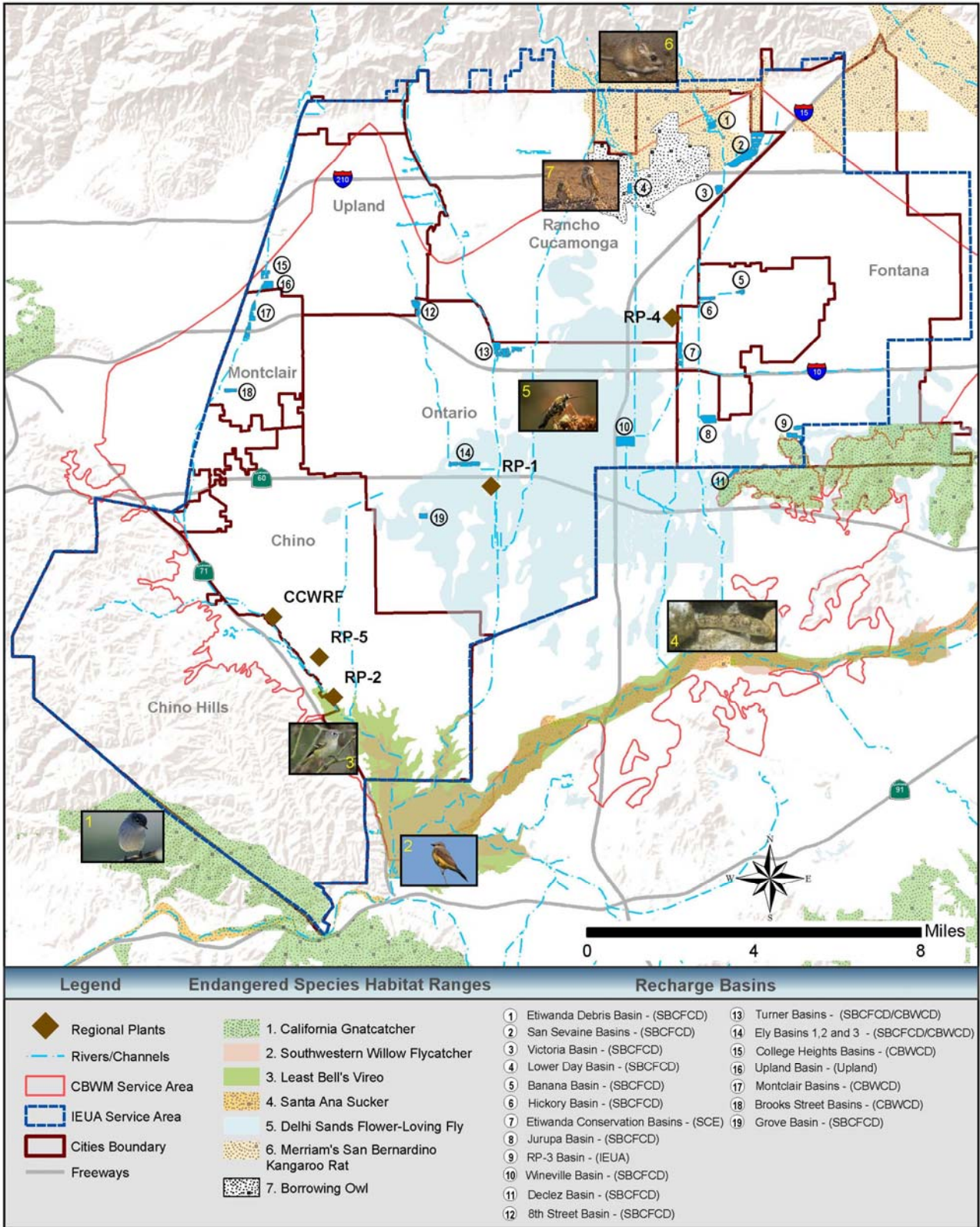
<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$160,000	\$137,873

<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: September 9, 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> \$6,295,000	<u>Actual Cost to Date</u> \$770,475
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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	\$556,359
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	-
				\$6,460,000	\$770,475

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

Project Update:

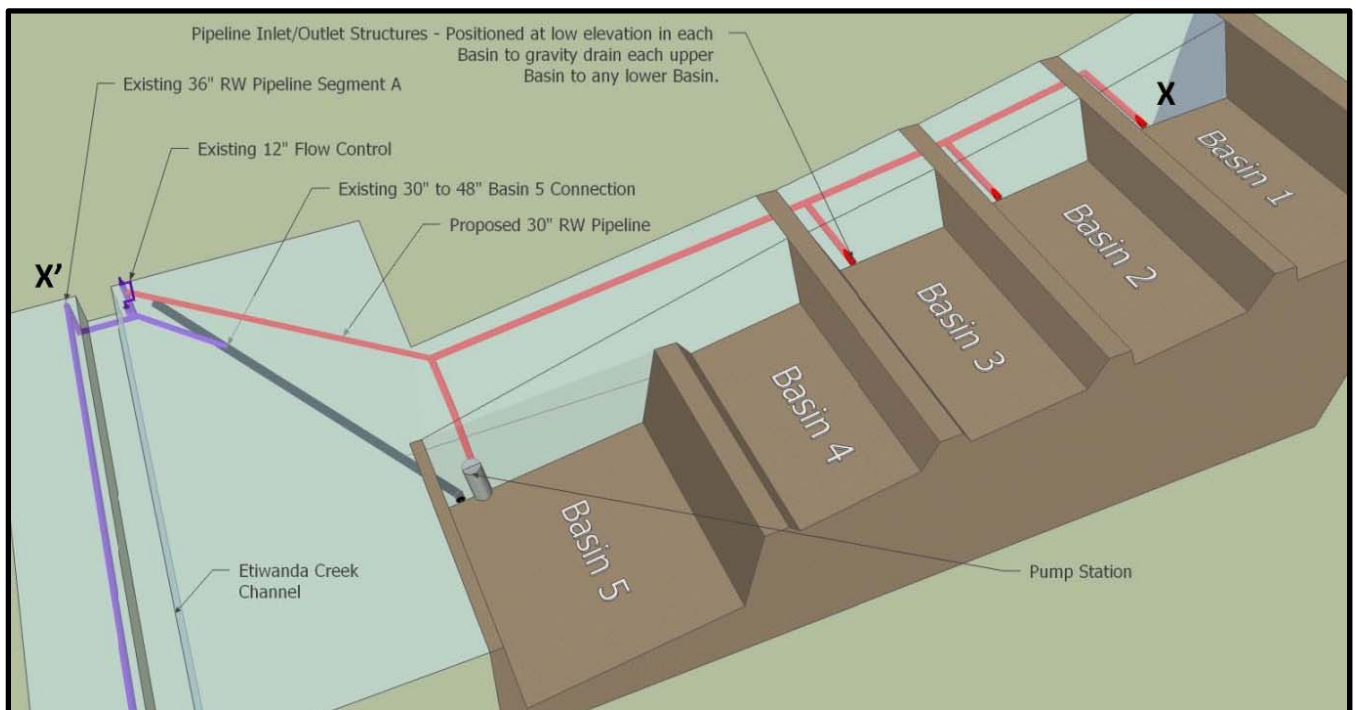
The Monitoring Well and Basin Improvement request for public bids closed on June 1 and July 13, respectively. The lowest responsible/responsive bidders were Yellow Jacket Drilling for the Monitoring Well and Gwinco Construction and Engineering for the Basin Improvements. Both are scheduled for IEUA Board approval on September 20, 2017.

The project task order agreement between IEUA and Watermaster was amended in May 2017 to include additional grant funding which reduced Watermaster's maximum cost share down to \$2,667,500.

On September 9, 2017, IEUA received confirmation from Jason Gu (IEUA's Grant Officer) that the State Water Resource Control Board granted a SRF loan for the remaining project costs which include a \$2.2 million principal forgiveness grant.

The Flood Control District has permitted a portion of the construction that is away from the basin floor because they have asked for additional environmental approvals from Fish & Wildlife, Regional Water Quality Control Board and Army Corps on the project within the basin area. IEUA has currently received approval from Fish & Wildlife and Regional Water Quality Control Board. Army Corps is expected to provide theirs before November 20, 2017. In the meantime, current permits will only allow construction above the floors and within the access roads. All improvements on or below the basin floor is restricted until the all documents are provided to the District.

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



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: September 9, 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 ⁽²⁾	Initial Yield		Updated Yield ⁽¹⁾	
			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 ⁽³⁾	New storage and recharge facility by deepening basin	81	-	100	-
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
			4,327	3,025	4,185	3,025

(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 pending agreement with CSI

Schedule:

Phases	Project Budget		Status	Actual Cost to Date	
	Start	Finish		Projected Cost	Actual Cost
	\$23,910,800			\$1,620,123	
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	\$210,000
Permits	12/18/14	03/12/18	In Progress	\$ 243,200	\$0
Design	06/22/17	03/12/18	In Progress	\$ 1,735,344	\$0
Bid and Award	03/13/18	06/20/18	Not Started	\$36,200	\$0
Construction	06/22/18	12/31/19	Not Started	\$ 20,205,800	\$0
				\$23,910,800	\$1,620,123

On Going RMPU Projects:

RMPU Project		Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)		\$4,008,000	\$279,849
Victoria Basin ⁽⁴⁾ (PID 11)		\$168,800	\$10,470
Montclair Basins (PID 2)		\$1,788,100	\$110,911
CSI Basin (PID 18a)		\$966,000	\$59,918
RP-3 Basin ⁽⁴⁾	(23a)	\$1,486,700	\$92,216
Wineville Basin		\$3,588,000	\$222,554
Jurupa Basin		\$1,424,000	\$88,327
Wineville/Jurupa Force Main		\$9,984,200	\$619,293
Total		\$23,413,800	\$1,483,538

(4) Cost shared between IEUA and Watermaster

Deferred RMPU Projects:

As of November 17, 2016, Watermaster stakeholders updated the list of deferred RMPU projects. The projected expenses associated to each project during the project development, preliminary design, and environmental phases are show below:

Project/Phase	Projected Expenses	Actual Cost (to date)
East Declez		
Project Development	\$114,000	\$112,829
Sub-Total	\$114,000	\$112,829
Declez Basin (PID 27)		
Project Development	\$2,600	\$2,600
Preliminary Design	\$71,000	\$3,913
Environmental	\$31,400	
Sub-Total	\$105,000	\$6,513
Turner Basin (PID 14)		
Project Development	\$1,000	\$1,000
Preliminary Design	\$28,400	\$1,605
Environmental	\$12,600	
Sub-Total	\$42,000	\$2,605
Ely Basin (PID 15a)		
Project Development	\$5,900	\$5,900
Preliminary Design	\$159,600	\$8,738
Environmental	\$70,500	
Sub-Total	\$236,000	\$14,638
Total	\$497,000	\$136,585

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)
- 1st Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd Amendment Task Order No. 1 of the Master Agreement of 2014 (Design Projects)
- 2nd 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)
- 1st 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	\$740,000
IEUA	\$0
<i>CSI’s proposed share</i>	<i>\$226,000</i>
Total	\$966,000

CSI Basin Task Order
 Task Order pending approval. Design efforts will not proceed without an executed task order.

Project Update:

- 1) The approved on going RMPU projects started design efforts on June 22, 2017 with Carollo as the lead design engineer. The first set of 30% design plans and specification will be reviewed in September.
- 2) Stantec is taking the leading 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. The plans are expected to be completed in October.
- 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.