

Non-RMPU Ongoing Projects



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GWR AND RW SCADA UPGRADES
PROJECT NO. EN14047
STATUS UPDATE: September 10, 2018

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 The current PLCs are outdated and lack critical product and technical support.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		\$767,805		
<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	04/30/18	In Progress	\$577,368	\$577,368
				<u>\$767,805</u>	<u>\$767,805</u>

*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:

Project is complete. Final cost is being confirmed.

Project Photos:



San Sevaine Turnout control panel



Rubber Dam control panel



**UPPER SANTA ANA RIVER WATERSHED HABITAT CONSERVATION PLAN
PROJECT NO. RW15002
STATUS UPDATE: September 10, 2018**

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.

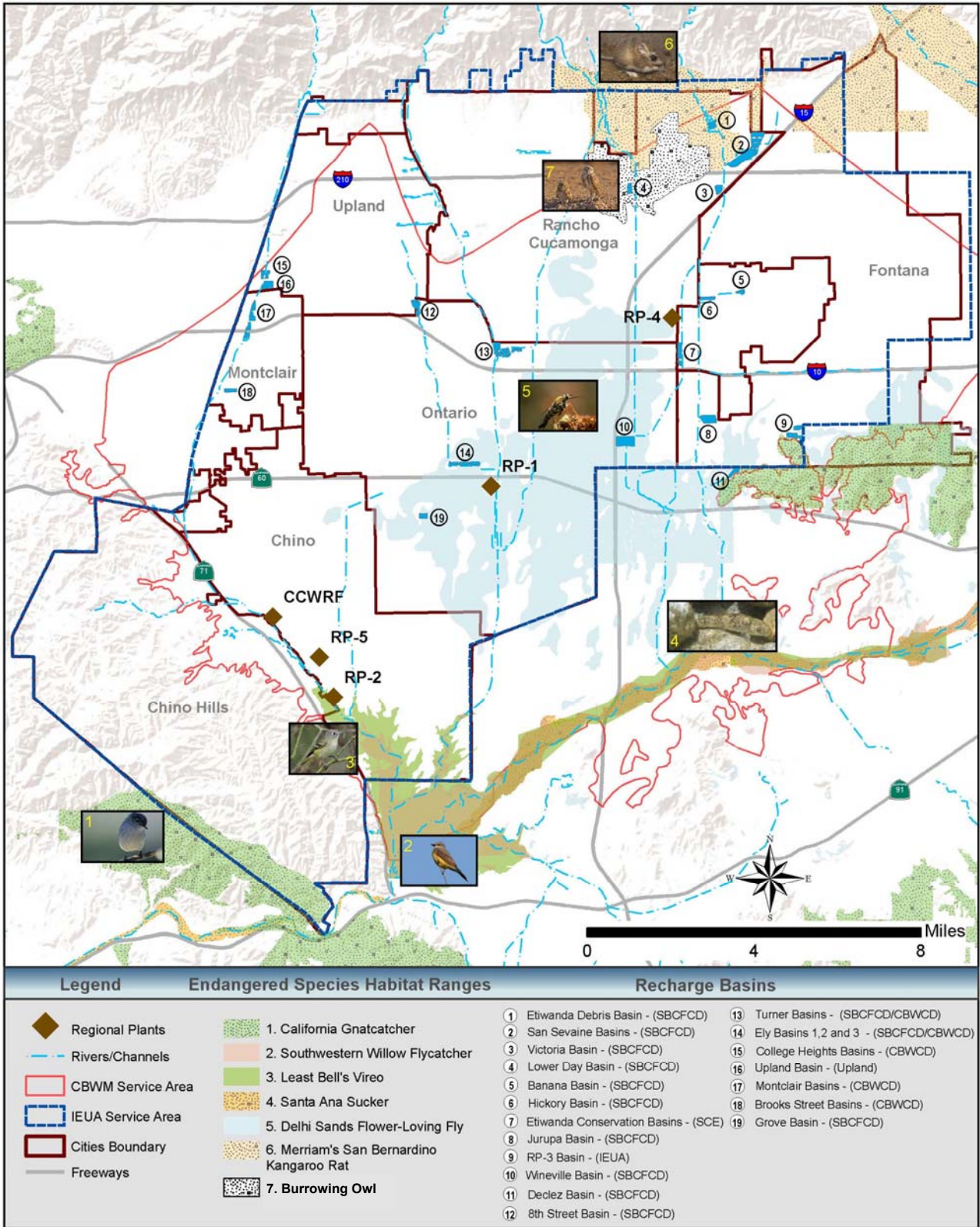
Schedule:

	<u>Project Budget</u>		<u>Actual Cost to Date</u>		
	\$160,000		\$141,121		
<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	12/31/19	In Progress	\$160,000	\$141,121
				\$160,000	\$141,121

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

Project Update:

There are no major updates since the previous status report.



RMPU PROJECTS



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SAN SEVAINE IMPROVEMENTS PROJECT
PROJECT NO. EN13001
STATUS UPDATE: September 10, 2018

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> \$5,017,299
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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	01/31/18	Completed	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	Completed	\$5,000	\$5,000
Construction	09/21/17	12/24/18	In Progress	\$5,740,000	\$4,247,219
				\$6,460,000	\$5,017,299

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. Awarded Clean Water State Revolving Fund (SRF) for the construction of the project. This awarded financing includes a \$2.5 million forgiveness grant against the principal.

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 Task Order No. 8 of the Master Agreement of 2014 (May 2017)

Project Update:

- IEUA is proposing to re-bid a part of the electrical scope that had a change of condition during construction. The original construction contract with the general contractor,

Gwinco, had new electrical conduit placed 200 feet to Southern California Edison's power source. While preparing for this connection, SCE provided a different location for the power source. This resulted in a longer conduit route, approximately 1,100 feet north, across a public road. With this change of condition, Gwinco provided a revised cost of over \$300K. At this cost, IEUA decided to remove the initial scope from Gwinco and solicit for more competitive pricing on the new condition. IEUA will bid the 1,100 feet of SCE conduit and award the scope in December. In the meantime, IEUA will utilize a portable electric generator when Gwinco is ready for system testing, which is set for early December.

- Extended construction schedule was needed to address the long lead time for the electrical system from Rockwell Automation. The motor control center from Rockwell and most of their control products was experiencing an unusual long lead-time. After several meetings with Rockwell, IEUA was able to minimize the long delivery period but still required an extension towards the project completion. The construction extension is to account for equipment availability which pushed out the connection and testing of the control system. The revised construction completion is late December 2018.
- Unforeseen field conditions resulted in the following added scope to the contractor:
 - An unmarked storm drain pipe impacted the pipe placement and needed to be rejected.
 - Another storm drain pipe was discovered in a different location and needed to be adjusted.

Construction Activities Photos:





Installed new stormwater inlet structure



Installation of new strainer and control valve at the Recycled Turnout



**POST 2014 STORMWATER RECHARGE PROGRAM
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00
STATUS UPDATE: AUGUST 10, 2018**

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	-	-	-
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	4,085	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 (CSI) removed from the list of ongoing RMPU projects. Updated yield value of 100 AFY is removed.

Project Budget:

Project Budget
\$23,007,817

Actual Cost to Date
\$3,267,315

RMPU Project	Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)	\$4,008,000	\$476,481
Victoria Basin ⁽⁴⁾ (PID 11)	\$168,800	\$55,547
Montclair Basins (PID 2)	\$1,788,100	\$293,787
RP-3 Basin ⁽⁴⁾	\$1,486,700	\$244,267
Wineville Basin	\$14,996,200	\$2,239,650
Jurupa Basin		
Wineville/Jurupa Force Main		
Total	\$22,447,800	\$3,267,315

(4) Cost shared between IEUA and Watermaster

The following are the planned expenses and cost to date for deferred RMPU projects:

Project/Phase	Planned Expenses	Actual Cost (to date)
East Declez		
Project Development	\$114,000	\$112,445
Sub-Total	\$114,000	\$112,445
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
CSI Basin (PID 18a)		
Project Development	\$2,000	\$2,000
Preliminary Design	\$47,000	\$47,000
Environmental	\$14,017	\$14,017
Sub-Total	\$63,017	\$63,017
Total	\$560,017	\$199,218

Grant/Loan Update:

RMPU Project	Funding Programs	Received Grant
Lower Day Basin (PID 12)	Grant Prop. 84 DWR/SAWPA	\$750,000
	USBR - Grant	\$375,000
RP-3 Basin (PID23a)	USBR - Grant	\$300,000
	SWRCB - Stormwater Grant	\$743,350
Wineville/Jurupa/Force Main (PID 23a)	SWRCB - Stormwater Grant	\$7,498,100
	USBR – Drought Resiliency Grant	\$750,000
Montclair Basin (PID 2))	-	-
Victoria Basin (PID 11)	-	-
Received Total		\$10,416,450

IEUA recently received a \$750,000 United State Bureau of Reclamation (USBR) WaterSMART Drought Resiliency Construction grant award for the Chino Basin Watermaster’s RMPU Project 23a - Wineville, Jurupa and RP-3 Basins Improvement Project (Project). The grants team is

working with the State Water Board on a Clean Water SRF loan for the remaining balance of the entire 2013 RMPU project package

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	\$63,017
IEUA	\$0
Total	\$63,017

PID 23a Task Order
 Task Order amendment required to include additional grant funds

CSI Basin Task Order
 Task Order amendment required to remove CSI and show remaining cost (updated further)

Project Update:

- 1) The following are updates to each of the on-going RMPU projects:
 - a) Victoria Basin – Project is out to bid. Bids close on September 18.
 - b) Wineville/Jurupa Storm Water Distribution Pipeline – Received Flood Control District permit comments. Currently finalizing the design. A resubmittal with the District is required. This will push the schedule as shown below.
 - c) Montclair Basin – Army Corps provide permit review comments. Currently finalizing the design plans. A resubmittal with the Corps is requested. This will push the schedule as shown below.
 - d) Lower Day Basin – Flood Control comments were received. The engineer is finalizing the design plans. A resubmittal of the plans is required. This will push the schedule as shown below.

- 2) The following is an update to RMPU’s RP-3 Basin Improvement Project:
 - a) Full construction work on the site started on August 27.
 - b) The site is currently being demolished.
 - c) The remaining Basin improvements at RP-3 will be combined with other RMPU projects to seek more competitive pricing.

- 3) Update on Clean Water State Revolving Fund (CWSRF) Application (loan assistance for water quality improvement project) – IEUA staff submitted all required application forms to the State Water Board. As discussed, IEUA is expecting SRF funding to be available under the following fiscal year (Fiscal Year 19/20). Notification of funding is expected on April 2019.

- 4) Regulatory Permits Update – The following three regulatory agencies: California Department of Fish & Wildlife, Santa Ana Regional Water Quality Control Board and US Army Corps of Engineers are being notified of the project. Awaiting a response to project notification.

Schedule

Lower Day (PID 12), Wineville/Jurupa/Force main (PID 23a) & Montclair Basin (PID 2):

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	11/30/18	In Progress
Design	12/18/14	11/30/18	In Progress
Bid and Award	12/03/18	04/17/19	Not Started
Construction	04/18/18	09/30/20	Not Started

Schedule – Victoria Basin (PID 11) :

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	08/07/18	In Progress
Design	12/18/14	08/07/18	In Progress
Bid and Award	08/08/18	12/19/18	In Progress
Construction	12/20/18	12/31/19	Not Started

Schedule – RP-3 Basin (PID 23a):

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	01/09/18	Completed
Design	12/18/14	12/14/17	Completed
Bid and Award	01/10/18	06/20/18	In Progress
Construction	06/21/18	12/31/19	In Progress

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