

# Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES**  
**PROJECT NO. EN14047**  
**STATUS UPDATE: January 9, 2019**

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 The current PLCs are outdated and lack critical product and technical support.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		\$771,311		
<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	Completed	\$570,000	\$580,874
				<u>\$760,437</u>	<u>\$771,311</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 completed. Finalizing cost share.

**Project Photos:**



San Sevaine Turnout control panel



Rubber Dam control panel

# RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT**  
**PROJECT NO. EN13001**  
**STATUS UPDATE: January 9, 2019**

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> \$5,669,998
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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	04/02/19	In Progress	\$5,740,000	\$4,899,918
				\$6,460,000	\$5,669,998

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

**Project Update:**

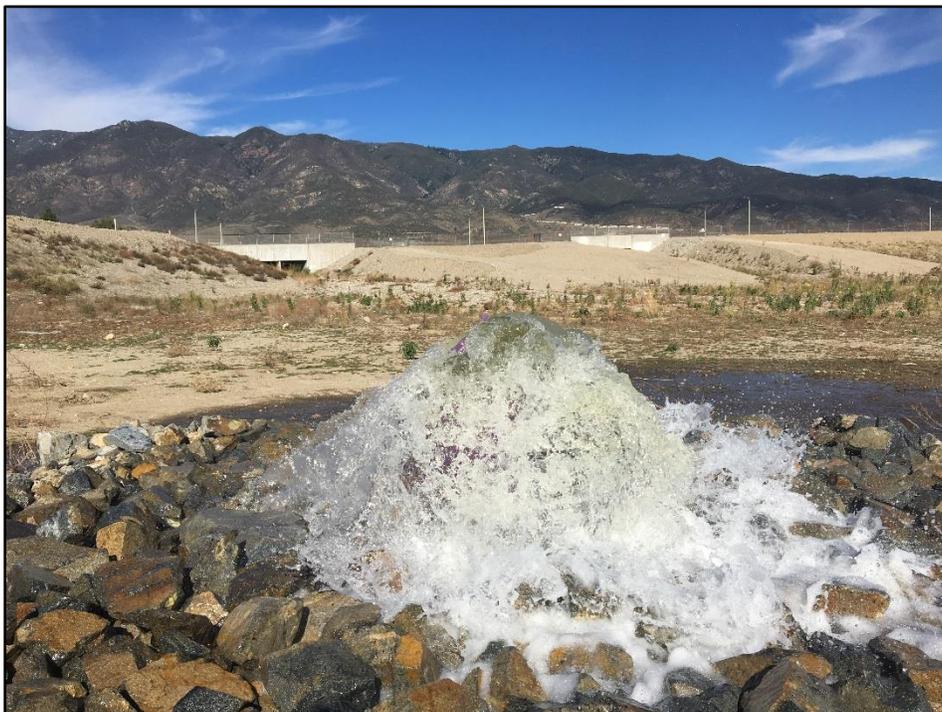
- Extended time to complete Edison power to the new construction improvements. WA Rasic will be installing the new conduits.

- Finalizing current scope with Gwinco on the basin improvements. Completed pump testing and startup.

**Construction Activities Photos:**



**Completed Stormwater Outlet Structure in Basin 3**



**Pump Testing of Stormwater Outlet Structure in Basin 1**



**Completed Lysimeter System at Basin 2**



**Completed RW Turnout**



**Completed Pump Control Panels**



**Temporary Generator used for Testing**



**POST 2014 STORMWATER RECHARGE PROGRAM  
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00  
STATUS UPDATE: January 9, 2019**

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 listed here for it has its own status update sheet.
- (3) 18a (CSI) removed from the list of ongoing RMPU projects. Yield value of 100 AFY is removed.

**Project Budget:**

Project Budget  
\$23,007,817

Actual Cost to Date  
\$3,611,858

RMPU Project	Total Projected Expenses	Actual Cost (to date)
Lower Day Basin (PID 12)	\$4,008,000	\$499,401
Victoria Basin <sup>(4)</sup> (PID 11)	\$168,800	\$58,491
Montclair Basins (PID 2)	\$1,788,100	\$301,813
RP-3 Basin <sup>(4)</sup>	\$1,486,700	\$250,940
Wineville Basin	\$14,996,200	\$2,501,211
Jurupa Basin		
Wineville/Jurupa Force Main		
<b>Total</b>	<b>\$22,447,800</b>	<b>\$3,611,858</b>

(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)
<b>East Declez</b>		
Project Development	\$114,000	\$112,445
<b>Sub-Total</b>	<b>\$114,000</b>	<b>\$112,445</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	\$2,000	\$2,000
Preliminary Design	\$47,000	\$47,000
Environmental	\$14,017	\$14,017
<b>Sub-Total</b>	<b>\$63,017</b>	<b>\$63,017</b>
<b>Total</b>	<b>\$560,017</b>	<b>\$199,218</b>

**Grant/Loan Update:**

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

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)
- 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:

<b>Deferred Projects (Task Order No.1)</b>	<b>Total</b>
Watermaster	\$497,000
IEUA	\$0
<b>Total</b>	<b>\$497,000</b>
<b>Lower Day Basin (Task Order No. 2)</b>	<b>Total</b>
Watermaster	\$2,883,000
IEUA	\$0
Grant Funding	\$1,125,000
<b>Total</b>	<b>\$4,008,000</b>
<b>PID 23a (Task Order No. 9)</b>	<b>Total</b>
Watermaster	\$7,554,135
IEUA	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
<b>Total</b>	<b>\$16,482,900</b>
<b>Victoria Basin (Task Order No. 10)</b>	<b>Total</b>
Watermaster	\$84,400
IEUA	\$84,400
<b>Total</b>	<b>\$168,800</b>
<b>Montclair Basin (Task Order No. 11)</b>	<b>Total</b>
Watermaster	\$1,788,100
IEUA	\$0
<b>Total</b>	<b>\$1,788,100</b>
<b>CSI Basin (Task Order No. 12)</b>	<b>Total</b>
Watermaster	\$63,017
IEUA	\$0
<b>Total</b>	<b>\$63,017</b>

**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 – Completed construction
  - b) Wineville/Jurupa Storm Water Distribution Pipeline – Submitting final draft to the District for final permit review.
  - c) Montclair Basin – Waiting for Army Corps review and approval.
  - d) Lower Day Basin – Submitting final draft to the District for final permit review.
  
- 2) The following is an update to RMPU’s RP-3 Basin Improvement Project:
  - a) Demo work completed. Excavation in progress.
  - b) The remaining Basin Improvement at RP-3 will be combined with other RMPU projects to seek more competitive pricing.

**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	02/11/19	In Progress
Design	12/18/14	02/11/19	In Progress
Bid and Award	02/12/19	05/15/19	Not Started
Construction	05/16/19	09/30/20	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	Completed
Construction	06/21/18	12/31/19	In Progress

**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	Completed
Design	12/18/14	08/07/18	Completed
Bid and Award	08/08/18	12/19/18	Completed
Construction	12/20/18	12/31/19	Completed

**Construction Activities Photos (For Victoria and RP-3 Basins):**



**Prepared site for excavation at RP-3**



**Completed structure at Victoria Basin**



**Initial condition of outlet at Victoria**



**Completed structure at Victoria Basin**