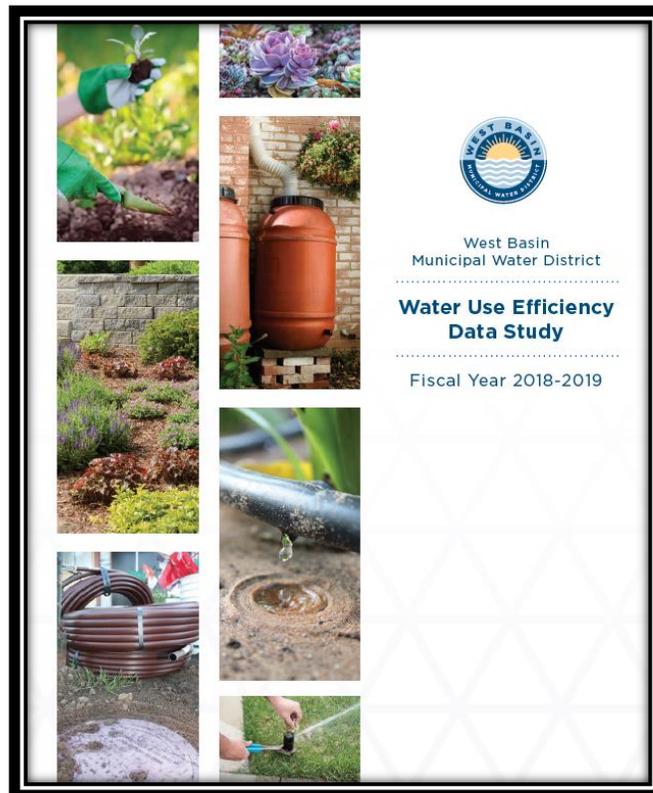


West Basin Municipal Water District
17140 S. Avalon Blvd., Carson, CA 90746

Water Use Efficiency Data Study

Final Project Report



Agreement #R15AP00072

Gus Meza, Senior Water Policy & Resources Development Analyst
17140 S. Avalon Blvd., Carson, CA 90746

November 18, 2019

1. Recipient Information:	
Recipient Name: (Name, contact person, address and phone number)	Gus Meza Senior Water Policy & Resources Development Analyst 17140 S. Avalon Blvd., Carson, CA 90746 310-660-6209
Agreement Number:	R15AP00072
Project Name:	Water Use Efficiency Data Study
Date of Grant Award:	July 16, 2015
Estimated Completion Date	July 31, 2016
Actual Completion Date:	July 31, 2019

2. Project Goals/ Objectives: *Briefly describe the goals/objectives of the project/ activity as they were identified in the original executed agreement*

In 2016, West Basin’s objective was to update its Water Use Efficiency Master Plan (Plan) and include water conservation measures through 2020. The goal was to also provide further details on strategies, programs and evaluate the effectiveness of those efforts already implemented. As part of the update, West Basin would identify programs that demonstrate both direct water and energy savings and indirect energy savings associated with the transport, treatment and delivery of water to end users (residents and businesses).

3. Final Project Description: *Briefly describe each element of the scope of work that was identified in Section I.5 of the Agreement, and the work that completed at each stage of the project. Please include maps, sketches, and/or drawing of the features of the completed project, as appropriate. In addition, please describe any changes that were made to the scope of the project that was identified in the original Agreement.*

In 2016, West Basin took an innovative approach to this project. Before proceeding with the Plan development, West Staff took a step back and developed a 2-step process. In step 1, West Basin hired a consultant to help identify the components to include in the Plan. This approach took a bit longer, but was well worth the effort. West Basin identified key drivers that would need to be included in the plan, such as how to use “big data”, identifying water conservation legislation and developing a stakeholder driven process.

Once these drivers were identified, West Basin hired its second consultant to develop the Plan. As the process rolled-out, West Basin staff came to learn pretty quickly that the Plan was actually a data study.

In order to develop an effective and useful Plan (Study), West Basin adjusted the project goals and deadlines through 5 Agreement Modifications.

Shown below are the Original Milestones and the Updated Milestones:

Original Milestone/Task	Updated Milestone/Task	Planned Start Date	Planned Completion Date
Task 1: Conduct Project Kick-Off and Stakeholder Meeting.	Task 1: Hire second Consultant (Completed)	June 2017	Aug 2017
Task 2: Identify Current and Future Water Conservation Target Reductions.	Task 2: Analyze Current Water Conservation Targets	Aug 2017	March 31, 2019
Task 3: Review West Basin's Rate Structure.	Task 3: Analyze Current Gallons Per Capita Per Day (GPCD) per Retail Water Agency (Complete)	Sept 2017	Oct 2017
Task 4: Review Existing Programs	Task 4: Adjust or Develop New Water Conservation Targets, if Needed	Oct 2017	March 31, 2019
Task 5: Identify Water Retail conservation Programs.	Task 5: Review Current Water Conservation Programs (Complete)	Jan 2018	Feb 2018
Task 6: Coordination with the Regional Alliance Private Water Retailer	Task 6: Analyze, Explore, and Incorporate New Conservation Programs	Jan 2018	March 31, 2019
Task 7: Develop Financing Plan for Selected Programs	Task 7: Evaluate West Basin's Ability to Meet its 2015 and 2020 Targets	Sept 2017	March 31, 2019
Task 8: Recommend New Strategies and Programs	This task was combined with Task 6 above.		
Task 9: Finalize West Basin's 2016-2020 Water Use Efficiency Master Plan	Task 8: Finalize West Basin's 2016-2020 Water Use Efficiency Master Plan	June 2017	June 30, 2019
	Task 9: Conduct Geospatial Analyses for Commercial WUE Programs	September 1, 2018	January 30, 2019
	Task 10: Map WUE Programs Geospatial Analyses by Division	September 1, 2018	January 30, 2019

With the help of West Basin's consultant, West Basin was able to meet all of the Updated Milestones / Tasks.

4. Accomplishment of Project Goals: *Describe whether the project goals/ objectives, identified in Section 2- Project Goals/ Objectives, above, were achieved through the completion of the project. If applicable, please state the reasons why goals/ objectives were not met, and describe any problems or delays that were encountered in completing the project. Additionally, please indicate whether or not the project was completed within the cost outlined in the original Agreement.*

On January 30, 2018, West Basin held its first Quarterly Water Use Efficiency Workgroup Meeting. As part of this project, West Basin developed a stakeholder process in order to include all 8 of its customer agencies, local cities and other interested stakeholders, such as the Surfrider Foundation. These quarterly meetings provided a great vehicle to update the stakeholders on the plan development and to seek input.

One of the challenges facing the project was the signing of AB 1668 and SB 606 in by the California Governor in 2018.

With the approval from the United States Bureau of Reclamation (Bureau), West Basin was able to incorporate the goals of the legislation as one of the drivers for this Plan.

The legislation will require water retailers to develop indoor (gallons per capita) and outdoor water budgets and to begin reporting on their water use by 2023.

This project has analyzed past participation data and used demographic and land use data to develop visual maps that show participation for various programs. West Basin is currently using this new data to better target its programs in order to increase participation.

West Basin has also developed 8 retail water use profiles that show the following information for each water retailer: Water Use by Sector, Population Projections, Monthly / Annual Water Use, Gallons per Capita and Indoor vs. Outdoor water use.

This data will greatly help West Basin and its water retailers with developing and targeting programs that will help the retailers meet their indoor and outdoor targets.

5. Future tracking of project benefits: *Please state whether and how the Recipient plans to track the benefits of the project (water saved, marketed or better managed) in the future. If no actual field measurements are currently available to support the estimate of project benefits in 6.B., please state whether actual field measurements will become available in the future. If so, please state whether the Recipient is willing to provide such data to Reclamation on a voluntary basis once it is available.*

As part of this project, West Basin's consultant updated West Basin's water conservation modeling tool. As a member of both the Alliance for Water Efficiency (AWE) and the California Water Efficiency Partnership (Cal-WEP), West Basin will continue to use this tool to track past and future water and energy savings. Upon request, West Basin can provide future updates on programs and water/energy savings.

7. If applicable, describe how the project demonstrates water efficiency, collaboration, stakeholder involvement or the formation of partnerships: *Please describe the collaboration involved in the project, and the role of any cost-share or other types of partners. If there were any additional entities that provided support (financial or otherwise) please list them.*

This will be West Basin's third water efficiency master plan / study and staff thanks the Bureau for its partnership. West Basin is a local water wholesaler in the southwest Los Angeles County area (South Bay / North Santa Monica Bay). As a wholesaler, West Basin partners closely with local cities, water retailers and other stakeholders to implement and promote programs.

For this project, West Basin developed a Quarterly Water Use Efficiency Workgroup in order to involve the local water retailers, cities and other interested stakeholders in the development of the Study. West Basin also invited representatives from the Metropolitan Water District (MWD) to provide updates on their water efficiency programs and marketing efforts.

By collaborating with local stakeholders, the partners can better leverage their resources to more effectively promote programs to the public and increase participation in local rebate programs, classes and other programs.

8. If applicable, please describe any other pertinent issues regarding the project:

Unlike the first two master plans, this 3rd plan is a data study. By focusing on past participation, land use, demographics and other criteria, a data analysis was conducted. The data and data maps produced by this study will allow West Basin staff to develop meaningful programs and strategic marketing tactics that will produce greater success and increased water-energy savings.

9. Feedback to Reclamation regarding the Water Conservation Field Services Program:
Please let us know if there is anything we can do to improve the Program in general, including the process for applying for or completing this project. Your feedback is important to us!

Great program, please continue.

10. Attachments: *Please attach the following*

The following Attachments have been included:

- Final Bound Water Use Efficiency Study - Fiscal Year 2018-2019

NOTE: This Final Report Format is a suggested format only; the Recipient may use its own form or format. A report in this form will satisfy the requirements of 2 CFR §200, as applicable. Failure to submit timely and acceptable progress reports places a Recipient in noncompliance with the terms and conditions of the assistance agreement. Noncompliance can result in the withholding of assistance payments, suspension or termination of the assistance award and may delay further awards.

11. Final Funding Information	Funding Amount
Non-Federal Entities	
1. West Basin Municipal Water District	\$79,700.82
<i>Non-Federal Subtotal:</i>	\$79,700.82
Other Federal Entities	
1. N/A	
<i>Other Federal Subtotal:</i>	\$0
<i>Reclamation Funding Paid:</i>	\$60,000.00
<i>Total Project Funding:</i>	\$139,700.82

BUDGET ITEM DESCRIPTION	COMPUTATION		RECIPIENT FUNDING	RECLAMATION FUNDING	Original Budget Amount
	\$/Unit and Unit	Quantity			
SALARIES AND WAGES					
Sr. Water Use Efficiency Specialist	\$ 50.02	232	\$ 11,604.64		\$ 11,604.64
Sr. Water Resources Planner	\$ 45.00	200	\$ 9,000.00		\$ 9,000.00
Intern	\$ 15.00	260	\$ 3,900.00		\$ 3,900.00
Water Resources Analyst 1	\$ 20.00	260	\$ 5,200.00		\$ 5,200.00
SubTotal			\$ 29,704.64		\$ 29,704.64
FRINGE BENEFITS					
Hourly Salary/Sr. WUE Specialist	\$ 50.02				
Total Hourly Fringe	\$ 37.77	200	\$ 7,554.00		\$ 7,554.00
Hourly Salary/Sr. Water Resources	\$ 45.00		\$ -		
Total Hourly Fringe	\$ 40.27	200	\$ 8,054.00		\$ 8,054.00
Part-Time Water Resources Analyst	\$ 20.00		\$ -		
Total Hourly Fringe	\$ 20.26	260	\$ 5,266.56		
SubTotal			\$ 20,874.56		
TRAVEL					
EQUIPMENT					
SUPPLIES/MATERIALS					
CONTRACTUAL/CONSTRUCTION					
Consultant #1 - Plan Development	\$ 200.00	300		\$ 60,000.00	\$ 60,000.00
Consultant #2 - Plan Development	\$ 200.00	100	\$ 20,000.00		\$ 20,000.00
SubTotal			\$ 20,000.00	\$ 60,000.00	\$ 80,000.00
TOTAL DIRECT COSTS			\$ 70,579.20	\$ 60,000.00	\$ 130,579.20
TOTAL PROJECT COSTS					

Actual Cost Recipient	Actual Cost Reclamation	Actual Budget
\$ 5,856.82		\$ 5,856.82
\$ 5,856.82		\$ 5,856.82
\$ 3,890.31		\$ 3,890.31
\$ 3,890.31		\$ 3,890.31
\$ 9,977.31		\$ 9,977.31
\$59,976.38	\$ 60,000.00	\$119,976.38
\$69,953.69	\$ 60,000.00	\$129,953.69
\$79,700.82	\$ 60,000.00	\$139,700.82
\$79,700.82	\$ 60,000.00	\$139,700.82