

Attachment 4

Western Water
Capital Improvement and Facilities Plan
Fiscal Years 2025-2029

				Totals	\$ 40,702,504	\$ (12,233,843)	\$ 49,414,511	\$ (16,640,312)	\$ 30,371,624	\$ (5,442,624)	\$ 36,191,972	\$ (3,250,962)	\$ 24,503,013	\$ (1,248,010)		
				Net Totals	\$ 40,702,504	\$ 28,468,662	\$ 49,414,511	\$ 32,774,200	\$ 30,371,624	\$ 24,929,000	\$ 36,191,972	\$ 32,941,010	\$ 24,503,013	\$ 23,255,003	\$142,367,874	
Row #	Request Title	Project Number	Spent to Date	Brief Project Description	Fund	2024/2025	2024/2025 (Offset)	2025/2026	2025/2026 (Offset)	2026/2027	2026/2027 (Offset)	2027/2028	2027/2028 (Offset)	2028/2029	2028/2029 (Offset)	Total
1	Minor Capital Project Program			Minor Capital Project Program	10-General Fund	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ -	\$ 5,000,000
2	Risk Mitigation Program			Risk Mitigation Program	10-General Fund	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 1,000,000
3	Unplanned Projects <\$100k			Unplanned Projects less than \$100,000	10-General Fund	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ 2,500,000
4	Chino Basin Desalter Authority (CDA) Asset Replacement			Western Water's portion of projects approved by CDA.	41-Combined Desalter Fund-CDA	\$ 236,077	\$ -	\$ 245,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 481,597
5	Santa Rosa Regional Resources Authority (SRRRA) Asset Replacement			Western Water's portion of projects approved by SRRRA Board.	35-Murrieta Wastewater Fund	\$ 114,742	\$ -	\$ 244,832	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 359,574
6	Western Riverside County Regional Wastewater Authority (WRCRWA) Asset Replacement			Western Water's portion of projects approved by the WRCRWA Board.	31-La Sierra Wastewater Fund	\$ 234,025	\$ -	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 474,025
7	Western Riverside County Regional Wastewater Authority (WRCRWA) AFC			Western Water's portion of projects approved by the WRCRWA Board.	31-La Sierra Wastewater Fund	\$ 995,462	\$ -	\$ 1,242,202	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,237,664
8	Western Riverside County Regional Wastewater Authority (WRCRWA) System Improvement			Western Water's portion of projects approved by the WRCRWA Board.	31-La Sierra Wastewater Fund	\$ 995,462	\$ -	\$ 1,242,202	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,237,664
9	Enhanced Recharge Project: Santa Ana River Spreading Basins	9030	\$ -	This is a joint project between Western Water, San Bernardino Valley Municipal Water District, San Bernardino Valley Water Conservation District, and the City of Riverside. An analysis performed as part of the Santa Ana River Watershed Integrated Regional Water Management Plan determined that an estimated 80,000 AFY of water can be recharged into the Bunker Hill Basin.	10-General Fund	\$ 2,092,795	\$ (2,092,795)	\$ 152,607	\$ (152,607)	\$ 1,920,165	\$ (1,920,165)	\$ -	\$ -	\$ -	\$ -	\$ -
10	Active Recharge Project: Santa Ana River Tributaries	9055	\$ -	The Western-San Bernardino Watermaster identified access to additional water rights in the San Bernardino Basin Area (SBBA). This project seeks to capture these new water rights. This is a joint project between San Bernardino Valley Municipal Water District and Western Water on behalf of the plaintiff parties.	10-General Fund	\$ 693,439	\$ (693,439)	\$ 889,648	\$ (889,648)	\$ 2,531,431	\$ (2,531,431)	\$ -	\$ -	\$ -	\$ -	\$ -
11	MGL Choi Dr. Valve Replacement	9155	\$ 385,051	The Mills Gravity Line (MGL) Isolation Valve Replacement project will replace a 48-inch isolation valve on the Mills Gravity Line, near Choi Drive. This project requires a coordinated 7-day shutdown of the MGL.	45-Mills Gravity Line Fund	\$ 475,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 475,000
12	Mills Gravity Line Blowoff Replacement	9155		This project is for a replacement of blowoffs along Mills Gravity Line (MGL).	45-Mills Gravity Line Fund	\$ -	\$ -	\$ 900,000	\$ -	\$ 1,700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,600,000
13	Grizzly Ridge Tank Rehabilitation	9187	\$ 41,148	This project will consist of lining or replacing the existing steel bolted tank with a welded steel tank and mixing system.	23-Murrieta Water Fund	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 2,250,000	\$ -	\$ -	\$ -	\$ 2,500,000
14	Magnolia Avenue Interconnection with Riverside Public Utilities (RPU)	9262	\$ 1,342,734	This project is to install interconnection with Riverside Public Utilities (RPU) along Magnolia Avenue near Merced Drive. It will include a metering facility, pressure control as well as connection point at Sterling Pump Station in order to convey water from RPU to Western Water.	20-Riverside Potable Fund	\$ 6,500,000	\$ (5,200,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000
15	Linear Asset Management Program - Carry Over	9272	\$ 926,819	This project is for an annual replacement program for aging infrastructure. It includes areas in Orangecrest and Woodcrest.	20-Riverside Potable Fund	\$ 5,250,000	\$ -	\$ 4,750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000
16	McKinley Grade Separation Project	9283	\$ 702,877	This project is for the relocation of Sewer Facilities in McKinley Street owned by WRCRWA due to grade separation project by the City of Corona. The facilities convey wastewater from Westn Water customers to WRCRWA.	31-La Sierra Wastewater Fund	\$ 2,200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,200,000

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17	SARCCUP Non-Potable Well #7 and Pipeline (W-296B)	9285	\$ 2,214,220	This project will include a short pipeline and a groundwater production well in south Riverside basin for non-potable supplemental water supply and as needed for SARCCUP operations.	21-Riverside Non Potable Fund	\$ 1,800,000	\$ (1,500,000)	\$ 4,000,000	\$ (3,000,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000
18	Master Plan - SCADA Implementation	9289	\$ 947,204	This project includes Supervisory Control and Data Acquisition (SCADA) implementation recommendations for a process control system master plan. The implementation plan consists of HMI and PLC hardware and software standardization and upgrades, creating design standards for the entire control system, local and wide area network communication standards and upgrades, development of cyber and physical security policies and procedures, proper documentation for disaster recovery, risk management and business continuity.	10-General Fund 32-WWRF	\$ 600,000	\$ -	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
19	PFAS Removal Facility at WWRF	9315	\$ 526,725	Design and Construction of a PFAS Treatment Facility at WWRF.	Wastewater Treatment Fund	\$ 650,000	\$ -	\$ 5,850,000	\$ (4,700,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,800,000
20	Water System Management	9328.1	\$ 27,754	Enhance the water model and/or install meters, valves, or other components to create District Metered Areas aiding staff in the optimization, maintenance, energy efficiency and reliability of the water system.	20-Riverside Potable Fund 33-WWRF	\$ 100,000	\$ (60,000)	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 440,000
21	WWRF Collection System Lift Station Repair, Rehab and Replacement	9329.1	\$ 29,646	This project is to maintain a multi-year program to extend the life span of all collection system sites.	Wastewater Conveyance Fund	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 250,000
22	Operations Space Planning	9332	\$ -	This project is for an assessment of spatial needs, the conversion of existing space or addition of new space. Evaluation of Asset Management planning activities, workshops with consultant and/or the development of a technical memo addressing Asset Management priorities.	10-General Fund	\$ 100,000	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000
23	Asset Management	9333.1	\$ 97,806	Implementation of recommendations from Warehouse Assessment may include but is not limited to racking, bar code systems, organization strategies etc.	10-General Fund	\$ 200,000	\$ -	\$ 250,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000
24	Warehouse Improvements	9335.1	\$ 19,500		10-General Fund	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
25	Hillside Reservoirs 1 & 2	9337	\$ 283,146	This project is for the refurbishment of Hillside Tanks.	20-Riverside Potable Fund	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
26	Permanent Power Generator at Mockingbird	9339	\$ 126,862	This project will provide a new backup generator at Mockingbird Pump Station.	20-Riverside Potable Fund	\$ 2,000,000	\$ (1,441,550)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 558,450
27	Meter Replacement Project (Phase III)-Riverside	9342	\$ 816,931	The final phase of the Meter Replacement Project will enhance meter accuracy, access to consumption data, and customer equity by replacing older meters in the Riverside Service Area with AMI meters.	20-Riverside Potable Fund	\$ 109,411	\$ (54,706)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54,705
28	Jefferson Avenue Water Improvement - Rancho California Water District Interconnection	9347	\$ 238,904	This project is for a new interconnection with Rancho California Water District (RCWD) and new water pipeline along Jefferson Avenue.	23-Murrieta Water Fund	\$ 800,000	\$ (600,000)	\$ 7,200,000	\$ (4,107,706)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,292,294
29	Madison Avenue Water Improvement	9348	\$ 80,229	This project is for new water and sewer pipelines along Madison Avenue to support future development.	23-Murrieta Water Fund	\$ 150,000	\$ -	\$ 1,350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
30	Madison Avenue Sewer Improvement	9349	\$ 69,965	This project is for new sewer pipelines along Madison Avenue to support future development.	35-Murrieta Wastewater Fund	\$ 150,000	\$ -	\$ 1,350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
31	Meter Replacement Project (Phase III)-Murrieta	9350	\$ 93,484	The final phase of the Meter Replacement Project will enhance meter accuracy, access to consumption data, and customer equity by upgrading meters in the Murrieta Service Area with AMI meters.	23-Murrieta Water Fund	\$ 50,091	\$ (25,046)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,045

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32	Woodcrest-Rinehart Relocations	9351	\$ 122,582	County of Riverside Flood control is installing a new storm drain in the Woodcrest-Rinehart Acres neighborhood that conflicts with Western Water's existing potable water pipelines. This project is to relocate the pipelines.	20-Riverside Potable Fund	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
33	Master Plan - Rancho California Water District Regional Intertie	9356	\$ 21,254	This project is for a new Rancho California Water District (RCWD) Intertie for Murrieta Service area (10cfs) in the area of Washington and Lemon Streets.	23-Murrieta Water Fund	\$ 1,430,000	\$ -	\$ 3,943,500	\$ (1,068,044)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,305,456
34	WWRF Chlorine Contact Basin Modifications	9360.4	\$ 52,978	The WWRF Chlorine Contact Basin consists of four channels. Baffles were installed in one of the four channels to reduce short-circuiting resulting in improved disinfection efficiency in FY2023 such as a reduction in chemical usage and reduction in formation of disinfection byproducts. Staff requests additional budget to install similar baffles in remaining three channels.	32-WWRF Wastewater Treatment Fund	\$ 185,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 185,000
35	Fleet Electrification	9363	\$ 441,409	Contract a consultant to conduct analysis of existing fleet and propose implementation plan to convert to electric. Potential to comply with Southern California Edison agreement purchases and South Coast Air Quality Management District (SCAQMD) abatement.	14-Fleet Fund	\$ 300,000	\$ -	\$ 300,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900,000
36	I&I March Air Reserve Base PFAS Mitigation (Phase 2)	9364	\$ 26,981	Sewer rehabilitation within March Air Reserve Base (MARB) and the non-containment areas that were found to contain high concentrations of PFOS/PFAS.	33-WWRF Wastewater Conveyance Fund	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 1,047,028	\$ (447,028)	\$ 2,962,972	\$ (2,962,972)	\$ -	\$ -	\$ 1,000,000
37	Truck Utility Bodies	9365	\$ 206,120	Refurbish and swap truck utility bodies for the three new chassis purchased in FY24.	14-Fleet Fund	\$ 250,000	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000
38	Oleander PS MCC Replacement and Permanent Generator - Potable	9366	\$ -	Replacement of aging MCC and switchgear at pump station as well as the addition of a permanent generator for the Potable System.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 2,700,000	\$ -	\$ -	\$ -	\$ 3,000,000
39	Inline Booster Station MCC Replacement and Permanent Generator	9367	\$ -	Replacement of aging MCC and switchgear at pump station, as well as the addition of a permanent generator. Disconnect existing interconnections with Eastern Municipal Water District (EMWD) at March Air Reserve Base (MARB) once the new Cactus interconnection is live. This is part of an agreement.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000
40	Eastern Municipal Water District at March Air Reserve Base Interconnection Abandonments	9369	\$ 15,327	Replacement of aging MCC and switchgear at pump station, as well as the addition of a permanent generator. Disconnect existing interconnections with Eastern Municipal Water District (EMWD) at March Air Reserve Base (MARB) once the new Cactus interconnection is live. This is part of an agreement.	22-March East Water Fund	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,000
41	Arlington Desalter Chlorine Building Rehabilitation and Generation Equipment			This project will replace 10-year-old equipment and add additional for redundancy. Two chlorine generation systems to be purchased and installed estimated to be \$75,000 each.	41-Combined Desalter Fund-ADS	\$ 75,000	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000
42	Arlington Desalter Granular Activated Carbon for PFAS			Retrofit existing granular activated carbon (GAC) system at Arlington Desalter for PFAS treatment.	41-Combined Desalter Fund-ADS	\$ 450,000	\$ -	\$ 3,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,450,000
43	Arlington Desalter to Sterling Pump Station Flow Meter			This project will install a new 30-inch mag meter between Arlington Desalter and Sterling Pump Station.	41-Combined Desalter Fund-ADS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 500,000	\$ -	\$ 750,000
44	Asset Management Software			Research, GAP analysis, and selection of Asset Management Software.	10-General Fund	\$ 125,000	\$ -	\$ 125,000	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,250,000
45	Backflow Upgrades to Prevent Drinking Water Contamination			This project will upgrade all single check backflow devices (approximately 80) in Western Water's drinking water system to certified devices.	20-Riverside Potable Fund	\$ 120,000	\$ -	\$ 540,000	\$ (480,000)	\$ 540,000	\$ (480,000)	\$ -	\$ -	\$ -	\$ -	\$ 240,000
46	Bucket Truck			Purchase a bucket truck to enable staff to install and maintain the Supervisory Control and Data Acquisition (SCADA) radio network equipment.	14-Fleet Fund	\$ -	\$ -	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175,000
47	Business Network Microwave System Upgrade and Expansion			This project will upgrade the current licensed microwave business network links to current standards with increased capacity. It will also add a connection to the Arlington Desalter site.	10-General Fund	\$ 225,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 275,000

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48	Customer Information System Enterprise Technology Project			Implementation of an upgrade or rebuild of the customer information system with a pre-integrated customer portal.	10-General Fund	\$ 150,000	\$ -	\$ 150,000	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,300,000
49	Drought Storage Tank for CDA and ADS			A new aboveground storage tank (AST) to store desalinated water from the Chino Desalter Authority (CDA) and the Arlington Desalter to use during times of drought.	41-Combined Desalter Fund-ADS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 625,000	\$ -	\$ 625,000	\$ -	\$ 1,250,000
50	El Sobrante Pump Station			This project is to construct a new pump station.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 2,250,000	\$ -	\$ 2,500,000
51	Grant Management Portal			A Grant Management Portal will be developed to support the entire grant lifecycle for Western Water's Grant Program. This portal will assist in applications, grant reporting and deliverable tracking, and help Western Water navigate complex grant management with efficiency and transparency.	10-General Fund	\$ 150,000	\$ -									\$ 150,000
52	Highline Trailer			Purchase Highline Trailer to provide redundancy and emergency preparedness in maintaining organized supplies to keep distribution system in operation during leak repairs or pipeline replacement.	14-Fleet Fund	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
53	Hillside Tank MCC & Switchgear Replacement including Electrical Service Upgrades - Non-Potable			Replace existing MCC and Switchgear. Upgrade the existing single combined medium voltage service connection to the Non-Potable Hillside Tanks with appropriate isolation switchgear, incorporating overload protection and providing independent fault protection.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ -	\$ 1,500,000	\$ -	\$ 2,050,000
54	Hillside Tank MCC & Switchgear Replacement including Electrical Service Upgrades - Potable			Replace existing MCC and Switchgear. Upgrade the existing single combined medium voltage service connection to the Potable Hillside Tanks with appropriate isolation switchgear, incorporating overload protection and providing independent fault protection.	20-Riverside Potable Fund	\$ -	\$ -	\$ 550,000	\$ -	\$ 1,500,000	\$ -	\$ 3,450,000	\$ -	\$ -	\$ -	\$ 5,500,000
55	Holcomb Vault Lid Replacement			Holcomb Pump Station vault lid replacement due to aged and technically outdated infrastructure.	20-Riverside Potable Fund	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
56	HR/Payroll Software System Upgrades			Upgrade Western Water's Human Resources Management and Payroll software systems. The project will include consolidating and integrating siloed systems.	10-General Fund	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 1,000,000	\$ -					\$ 1,100,000
57	Hydraulic Model			In a coordinated effort to support Operations, Engineering, and Water Resources, Western Water's Hydraulic Model will be updated and enhanced.	10-General Fund	\$ 180,000	\$ -	\$ 84,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 264,000
58	Information Services Hosting Infrastructure Refresh			This project will replace hardware and software components for Western Water's virtual server hosting environment.	10-General Fund	\$ -	\$ -	\$ 395,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 395,000
59	Install Arlington Desalter Security System			This project will include the installation of security measures, including but not limited to, possible block wall fencing.	41-Combined Desalter Fund-ADS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 400,000
60	Install Arlington Desalter Vault Lids			Installation of multiple vault lids for the Arlington Desalter (ADS).	41-Combined Desalter Fund-ADS	\$ 150,000	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
61	Install New 24" Non-Potable Pipeline - GreenTree Development			Install new 24" non-potable pipeline to replace existing 12" pipeline located within the easement along the GreenTree Development.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000
62	Install Variable Frequency Drives on Arlington Desalter Distribution Pumps and Wells			This project is for installation of variable frequency drives (VFD) control system and motor control improvements for the Arlington Desalter distribution pumps and wells.	41-Combined Desalter Fund-ADS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ 1,000,000
63	Lead and Copper Rule Revisions Project			Replacement of identified lead service lines (LSLs) and/or galvanized requiring replacement (GRR) potable service lines within MARB.	22-March East Water Fund	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 320,000	\$ -	\$ -	\$ -	\$ 350,000
64	Linear Asset Management Program (Years 3-7)			This is an annual Replacement program for aging potable water pipeline across the district.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 5,000,000	\$ -	\$ 15,000,000

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65	Markham Lift Station Upgrade			Increase firm capacity from 1.44 MGD to 3 MGD to accommodate near-term flows including adding a third back up pump for 100% of the flow. In addition, enlarging the wet well storage capacity to eliminate deficiency.	32-WWRF Wastewater Treatment Fund	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ 3,600,000	\$ -	\$ 4,000,000
66	Master Plan - Blackburn Road Pipeline			This project includes a 7,500 foot 18" pipeline from Lockwood Tank to Camera Court and pressure-reducing valve.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 350,000	\$ -	\$ 3,150,000	\$ -	\$ -	\$ -	\$ 3,500,000
67	Meridian Building Climate Control			This project is to replace (4) HVAC units at Meridian with like units or other necessary repairs and replacement for building climate control. The boiler and roofing also need replacing.	10-General Fund	\$ -	\$ -	\$ 200,000	\$ -	\$ 1,700,000	\$ -	\$ 2,600,000	\$ -	\$ -	\$ -	\$ 4,500,000
68	Meridian Building Energy Efficiency Initiatives			This project is to replace indoor fluorescent lighting ballasts that no longer meet industry lighting standards with new more efficient LED fixtures throughout Western Water's Meridian facility.	10-General Fund	\$ 786,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 786,000
69	Meridian Security Camera Upgrade			This project is to upgrade current enterprise cameras at Western Water's Meridian facility to Verkada cameras, which are currently in use at other facilities such as ADS, WWRF, Lurin, and Orangecrest.	10-General Fund	\$ -	\$ -	\$ 140,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140,000
70	Mills Gravity Line Cathodic Protection			This project is to install cathodic protection for Mills Gravity Line (MGL).	45-Mills Gravity Line Fund	\$ -	\$ -	\$ -	\$ -	\$ 159,000	\$ -	\$ 1,431,000	\$ -	\$ -	\$ -	\$ 1,590,000
71	Mills Gravity Line Hydro-Electric Study			This project is to update the previous hydro-electric study conducted over ten years ago and to pursue recommendations as directed by the Board.	10-General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000
72	Mills Gravity Line Reach F - Valve Replacements			This project is to replace valves at Reach F and install two 24-inch valves on the discharge side of reach F on the feeds to EVMWD and Corona.	45-Mills Gravity Line Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 2,250,000	\$ -	\$ 2,500,000
73	Mockingbird Canyon Pipeline Erosion Repair - Long Term Repairs			Permanent long-term remediation's are required to avoid future erosion of the stream and pipeline which will include upstream modifications to the stream from the pipeline crossing.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ 45,000
74	Mockingbird Pump Station - Pumps #8 and #9			This project is to design, bid, and build additional Pumps at Mockingbird Pump Station to support capacity, redundancy, reliability and system optimization. Project will include the addition of new MCCs for the added pumps.	20-Riverside Potable Fund	\$ -	\$ -	\$ 320,000	\$ -	\$ 2,880,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,200,000
75	Murrieta Sewer Groundwater Infiltration Reduction			This project is for the reduction for future infiltration of Murrieta sewer groundwater.	35-Murrieta Wastewater Fund	\$ 100,000	\$ -	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
76	Non-Potable Recycle Tank Refurbishment Program Design and Rehab Multiple Tanks			Perform condition assessment of all non-potable tanks during year 3 and perform rehab of the highest priority reservoir for \$1.2M. Rehabilitation of the remaining tanks will be completed in years 5-10 based on priority.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000	\$ -	\$ 400,000
77	Off-Road Diesel Compliance Advance Clean Fleet Rule			Due to the California Air Resources Board (CARB) Compliance and Tier I rating for off-road engines, asset replacement of existing vehicles and equipment is needed to maintain compliance.	14-Fleet Fund	\$ 300,000	\$ -	\$ 350,000	\$ -	\$ 400,000	\$ -	\$ 450,000	\$ -	\$ 500,000	\$ -	\$ 2,000,000
78	Oleander PS MCC Replacement and Permanent Generator - Non-Potable			Replacement of aging MCC and switchgear at pump station as well as the addition of a permanent generator for the Non-Potable system.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 2,700,000	\$ -	\$ -	\$ -	\$ 3,000,000
79	Operations Camera Upgrade			This project is to upgrade current enterprise cameras at Western Water's Operations facility to Verkada cameras, which are currently in use at other facilities such as ADS, WWRF, Lurin, and Orangecrest.	10-General Fund	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175,000

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80	Operations Fueling Station			This project is for an on-site fueling station to increase fuel supplies and efficiency of fleet refueling for day-to-day use and enhanced emergency preparedness.	14-Fleet Fund	\$ -	\$ -	\$ -	\$ -	\$ 247,000	\$ -	\$ -	\$ -	\$ 2,223,000	\$ -	\$ 2,470,000
81	Operations Perimeter Fence			This project is to replace and upgrade the exterior fence at the Operations facility. The current fence is chain link with razor wire and barbed wire at various locations.	10-General Fund	\$ -	\$ -	\$ -	\$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000
82	Potable Water Tank Rehabilitations			Rehabilitation of Western Water's potable water storage tanks based on a prioritization report for repair, recoating and repainting of the tanks.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 1,300,000	\$ -	\$ 200,000	\$ -	\$ 1,700,000
83	Rainbow - Upsize Metropolitan Water District of Southern California Connection			This project is to upsize existing Metropolitan Water District of Southern California (MWD) connection for Rainbow service area to 8-inches.	24-Rainbow Water Fund	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
84	Rainbow Asset Replacement			This project is for Rainbow pump replacement and system upgrades.	24-Rainbow Water Fund	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
85	Rainbow Tank Refurbishment Program			This project is pending a project consultant to begin work to coat and paint the Rainbow tank.	24-Rainbow Water Fund	\$ -	\$ -	\$ -	\$ -	\$ 87,000	\$ -	\$ 783,000	\$ -	\$ -	\$ -	\$ 870,000
86	Relocation of Pipelines Due to Riverside County Flood Control Wash Project			Relocation of Western Water pipelines (including a portion of the MGL) due to a new wash being installed by Riverside County Flood Control at Mockingbird Canyon.	45-Mills Gravity Line Fund	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600,000
87	Reservoir Management - Murrieta - Olga Gordon			This project is to add a tank mixing system to the existing reservoirs that will allow tanks to be kept at a high level rather than cycling the tanks from high to low water levels.	23-Murrieta Water Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000	\$ -	\$ 60,000
88	Riverside New Pressure Reducing Valves			Implementation of Phase 1: Pressure reducing valves recommended in the HAL Water System Optimization report.	20-Riverside Potable Fund	\$ 150,000	\$ -	\$ 1,350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
89	Riverside RMS - Hidden Valley			Design and install a Reservoir Management Systems (RMS) at Hidden Valley Reservoir. Site may require County address, electrical services, permitting etc. in order to accommodate the RMS system.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000
90	Riverside RMS - La Sierra			Design and install a Reservoir Management Systems (RMS) at La Sierra Reservoir. Site may require County addresses, electrical services, permitting etc. in order to accommodate the RMS system.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 700,000	\$ -	\$ 1,000,000
91	Riverside RMS - Markham			Design and install a Reservoir Management Systems (RMS) at Markham Reservoir. Site may require County address, electrical services, permitting etc. in order to accommodate the RMS system.	20-Riverside Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 750,000
92	Smartball Assessment for the March Non-Potable Pipeline			Non-Destructive Condition Assessment for March Pipeline to assist in determining leaks or any other issues with the pipeline.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
93	Sterling Pump Station Natural Gas Pumps			Two natural gas pumps at Sterling Pump Station have failed and require attention. This project will either rebuild or replace pumps as determined by level of service needed.	41-Combined Desalter Fund-SPS	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 1,000,000
94	Study for Diversion of Murrieta's Ultimate Sewer Flows to EMWD's Treatment Plant (TVRWRF)			Study to determine how to convey ultimate sewer flows from Western Water's Murrieta service area to Eastern's Wastewater Treatment Plant (TVRWRF) as a stop-gap for the shortfall from Western Ultimate flows as an alternative to SRRRA. Study should provide at least 3 reasonable options with costs. Construction costs for the implementation of the project will be added once the preferred alternative is determined.	35-Murrieta Wastewater Fund	\$ -	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

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95	Study for Murrieta Water Supply			This project would examine various water sources, consider water quality, availability and cost of service for the Murrieta Service Area.	23-Murrieta Water Fund	\$ 550,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000
96	Study to Address Financial Constraints on Non-Potable - Consider Delivering Potable Water			Perform technical study and provide memo to evaluate potential use of potable water in the Riverside South area to replace non-potable water for the limited number of customers and its financial impacts with recommendations.	21-Riverside Non Potable Fund	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
97	Study to Move WWRF flows - Business Case Analysis			Perform comprehensive study of WWRF to analyze sewer treatment and recycled water discharge options. Study to also include cost analysis for each option and recommendations.	33-WWRF Wastewater Conveyance Fund	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
98	Valve Truck Replacement			This request is to purchase a new valve truck.	14-Fleet Fund	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
99	Victoria Basin Signage Project			Installation of new signs, trellis, bench and modify existing fencing at corner of Victoria and Jackson.	10-General Fund	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
100	Victoria Basin Storm Water Diversion Project			Install diversions to the storm drain in the area to divert flows to the Victoria Basin.	41-Combined Desalter Fund-VBR	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
101	Water Supply Conditions Portal (WSC Portal)			As part of the Drought Monitoring Framework defined in Western Water's Drought Contingency Plan, this project will lead development of a web-based Water Supply Conditions Portal to provide access to data pertinent to regional drought planning and response.	10-General Fund	\$ -	\$ -	\$ 150,000	\$ -							\$ 150,000
102	Watermaster WISE Database Enhancements			The Watermaster WISE database was developed between 2014 - 2016 to electronically record well production data and prepare the Watermaster annual report for the Western-San Bernardino Watermaster. The database is nearly ten years old and requires enhancements to account for recent updates to the accounting methodology and annual reporting.	10-General Fund	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000
103	WWRF Automation Upgrade			Western Water Recycling Facility PLC hardware and software is outdated and needs to be updated to meet new district SCADA standards for security, system reliability, and efficiency.	32-WWRF Wastewater Treatment Fund	\$ 250,000	\$ (200,000)	\$ 1,750,000	\$ (1,400,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000
104	WWRF Intake Flow Meter			This project is needed due to lack of existing flow meter. We are experiencing higher than normal flow rates this meter will help determine higher flow are coming from customers or due to recirculation.	33-WWRF Wastewater Conveyance Fund	\$ -	\$ -	\$ -	\$ -	\$ 80,000	\$ (64,000)	\$ 720,000	\$ (215,990)	\$ -	\$ -	\$ 520,010
105	WWRF Pond Erosion Prevention Project			Install slope protection along the east side of the WWRF recycled water pond to control erosion due to wind and water slushing.	32-WWRF Wastewater Treatment Fund	\$ 90,000	\$ (72,000)	\$ 810,000	\$ (648,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 180,000
106	WWRF Pump Station Improvements at WWRF Pond			This project is for pump station improvements at WWRF Pond to provide recycled water to Riverside National Cemetery as a dedicated system.	32-WWRF Wastewater Treatment Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ (72,000)	\$ 1,450,013	\$ (1,248,010)	\$ 330,003
107	March Field Air Museum Landscape Demonstration Project			This project will replace approximately 20,000 square feet of turf landscaping with drought-tolerant landscaping and upgrade the irrigation system to an efficient irrigation system at the March Field Air Museum.	10-General Fund	\$ 750,000	\$ (100,000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 650,000
108	Mills Gravity Line Reach F - Automation & Process Control Upgrade			This project is to replace and upgrade aged infrastructure specifically related to Automation & Process Control connections belonging to Western and supporting the three wholesale agencies.	45-Mills Gravity Line Fund	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000

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109	Website Full Rebuild			Rebuilding Western Water's public facing website to improve functionality, accessibility, and keep up with security and technology requirements.	10-General Fund	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
110	ADS Replacement Well and Pipeline (Design Only)			Replacement Well and pipeline for the Arlington Desalter, bringing water supply reliability to the communities of Norco, Jurupa, Corona, and Riverside	41-Combined Desalter Fund-ADS	\$ 350,000	\$ (194,307)	\$ 350,000	\$ (194,307)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 311,387