

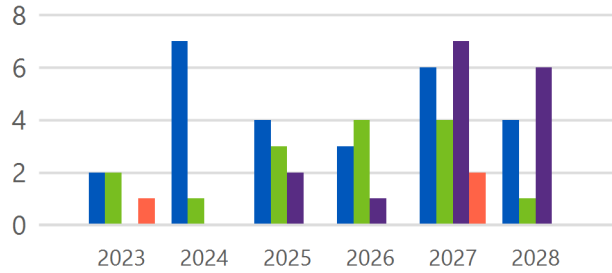


PROJECTS TO START DESIGN WITHIN 5 YEARS

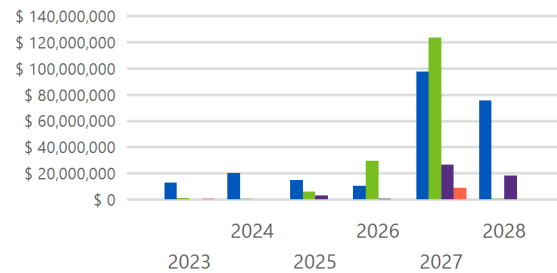


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TOTAL PROJECT COUNT PER PROJECT TYPE



TOTAL BUDGET PER PROJECT TYPE



	2023		2024		2025		2026		2027		2028	
	TOTAL	CNT	TOTAL	CNT	TOTAL	CNT	TOTAL	CNT	TOTAL	CNT	TOTAL	CNT
WATER	\$12,578,600	2	\$20,273,998	7	\$14,520,205	4	\$10,445,471	3	\$97,626,870	6	\$75,326,516	4
SEWER	\$1,090,000	2	\$148,750	1	\$6,118,660	3	\$29,641,000	4	\$123,256,991	4	\$755,420	1
RECYCLED		0		0	\$3,171,000	2	\$432,000	1	\$26,270,000	7	\$18,307,203	6
GENERAL	\$750,000	1		0		0		0	\$8,782,420	2		0
TOTAL	\$14,418,600	5	\$20,422,748	8	\$23,809,865	9	\$40,518,471	8	\$255,936,281	19	\$94,389,139	11

■ WATER ■ SEWER ■ RECYCLED ■ GENERAL

■ WATER ■ SEWER ■ RECYCLED ■ GENERAL

PROJECT NAME	PROJECT MGR	PROJECT ENG	PROJECT BUDGET	DESIGN PHASE DATES		FINAL DESIGN DATES		LOCATION/DESCRIPTION
				START	FINISH	START	FINISH	
WATER			\$230,771,660					
1900R PZ CONVERSION TO 1860 PZ (MVPW-102a)	Kowalski, Gregory J. X4466		\$8,592,100	10/1/2023	1/4/2027	9/14/2025	11/18/2026	Cottonwood Avenue from Nason Street to Redlands Boulevard. - 600 ft of 12" pipe, 5,600 ft of 18" pipe, 6,300 ft of 24" pipe, 200 individual service regulators, 3 gate valves, 6 jumpers
WELL 93D WELLHEAD TREATMENT	Kowalski, Gregory J. X4466	Kowalski, Gregory J.	\$3,986,500	11/1/2023	12/4/2026	9/24/2025	9/16/2026	Wellhead treatment at well 93.
MICROWAVE BACKBONE TOWER MISSION II TANK	Serna Jr, Edward X6299	Serna Jr, Edward	\$340,000	1/9/2024	7/30/2024	4/26/2024	7/6/2024	To install a new 80-foot communications tower for the District's microwave backbone system at Mission Tank. The existing tower is at capacity and may not have the needed height.
MICROWAVE BACKBONE TOWER MVRWRF	Serna Jr, Edward X6299	Serna Jr, Edward	\$340,000	1/9/2024	7/30/2024	4/26/2024	7/6/2024	To install a new 80-foot communications tower for the District's microwave backbone system at Sun City RWRF. The existing tower is at capacity and may not have the needed height.
MICROWAVE BACKBONE TOWER RANCHO GLEN OAKS	Serna Jr, Edward X6299	Serna Jr, Edward	\$340,000	1/9/2024	7/30/2024	4/26/2024	7/6/2024	To install a new 80-foot communications tower for the District's microwave backbone system at Rancho Glen Oaks. The existing tower is at capacity and may not have the needed height.
ROMOLAND FEEDER REPLACEMENT	Kowalski, Gregory J. X4466	Hull, David	\$11,970,000	3/30/2024	12/9/2025	12/4/2024	10/11/2025	18,500 LF of 36-inch pipeline from Romoland BPS to north of San Jacinto Ave.
SUN CITY LEAKY PIPE REPLACEMENT PHASE 3	Kowalski, Gregory J. X4466		\$1,319,472	10/9/2024	8/21/2026	5/22/2025	7/27/2026	Replace 2,800 LF of 12-inch pipeline in Bradley Rd from Salt Creek south to Newport Rd then 400' east.



PROJECTS TO START DESIGN WITHIN 5 YEARS



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PROJECT NAME	PROJECT MGR	PROJECT ENG	PROJECT BUDGET	DESIGN PHASE DATES		FINAL DESIGN DATES		LOCATION/DESCRIPTION
				START	FINISH	START	FINISH	
WATER BOOSTER PLANT IMPROVEMENTS PHASE 4	Matthew Peacock, x4516	Peacock, Matthew	\$1,150,000	2/1/2024	8/22/2024	5/19/2024	7/29/2024	Install 4 permanent generators at sites throughout the EMWD service area. Water Booster Plant Improvements Phase 4 " Sites Barnes Lane Hydro, Gunther, Juniper Flats 2, Nuevo & Webster.
WELL PS D2 EQUIPPING	Kowalski, Gregory J. X4466		\$4,814,526	3/4/2024	5/14/2027	2/24/2026	4/20/2027	This project includes well equipping and pipelines necessary to bring water from this well to the EMWD Desalination Complex for the second of up to three new desalter wells planned in the Perris South Ground Water Management Zone (PS). This well is planned in or near the City of Menifee.
BRACKISH WATER CONVEYANCE PIPELINES PHASE 2	Kowalski, Gregory J. X4466		\$10,710,615	8/31/2025	9/19/2027	5/6/2026	8/23/2027	Timing to match Phase 2 Expansion of Perris II Desalter (expansion from 5.4 to 10.8 MGD, subject to results of long-term sustainable yield evaluation by Planning via USACE). Project is located in the city of Perris or Menifee (wells to be located northwest or east of Desalter Complex, subject to well siting evaluation by Planning via USACE.
CRAIG BOOSTER EXPANSION- PH I (PVSPW-103A)	Kowalski, Gregory J. X4466		\$409,200	7/22/2025	2/15/2028	12/18/2026	1/18/2028	1,500 gpm pumping capacity, 100 ft of 12-inch pipe, 300 ft of 24-inch pipe located at existing Craig Booster Pump Station site located at the southwest corner of Craig Avenue and Hanover Lane.
WELL PS D2 DRILLING	Kowalski, Gregory J. X4466		\$1,788,253	1/2/2025	2/28/2026	10/26/2025	2/4/2026	This project includes the drilling and testing activities for the second of up to three new desalter well planned in the Perris South Ground Water Management Zone (PS). This well is planned in or neat the City of Menifee.
WELL PS D3 DRILLING	Kowalski, Gregory J. X4466		\$1,612,137	1/6/2025	4/15/2026	11/29/2025	3/20/2026	Desalter Well. Perris Blvd.
KELLER RD AND KOON STREET PIPELINE (PVPW-515)	Kowalski, Gregory J. X4466		\$4,339,920	6/14/2026	5/26/2029	2/25/2028	5/1/2029	Along Washington Street to Keller Rd. and along Keller Rd. to Pourroy Road. - 4,800 ft of 30" pipe. Possible Developer oversizing.
SUN CITY LEAKY PIPE REPLACEMENT PHASE 4	Kowalski, Gregory J. X4466		\$2,458,183	8/22/2026	7/4/2028	4/5/2027	6/8/2028	1,200 lf of 8-in pipe in Plum Hollow, 300 lf of 8-inch pipe in Coombe Hill Dr, 600 lf of 8-inch pipe in Tanglewood Dr, 600 lf of 8-inch pipe in Waverly Dr, 800 lf of 8-inch pipe in Glen Oaks Dr, 300 lf of 8-inch ppe in Chevy Chase Dr, 2,000 lf of 12-inch pipe in Pebble Beach Dr, 500 lf of 8-inch pipe in Carmel Dr, 400 lf of 8-inch pipe in Del Monte, 300 lf of 8-inch pipe in Desert Hills Dr, 1,200 lf of 8-inch pipe in Middlebury Dr, and 500 lf of 8-inch pipe in Sun City Blvd. Total length is 8,700 lf.



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				START	FINISH	START	FINISH	
WELL PS D3 EQUIPPING	Kowalski, Gregory J. X4466		\$3,647,368	3/9/2026	9/12/2029	5/11/2028	8/16/2029	Desalter Well. Perris Blvd.
BRINE CONCENTRATION FACILITY	Kowalski, Gregory J. X4466		\$49,000,000	7/1/2027	7/22/2029	4/30/2028	5/11/2029	
BRINE DISPOSAL CAPACITY OCSD PURCHASE	Kowalski, Gregory J. X4466		\$8,228,000	7/1/2027	9/10/2027	7/1/2027	8/5/2027	Purchase Brine Management Capacity from Orange County Sanitation District when the Perris II Desalter is at full capacity currently estimated at \$6.8 Million
KELLER ROAD PIPELINE (PVPW-516)	Kowalski, Gregory J. X4466		\$7,400,900	1/1/2027	11/12/2028	8/14/2027	10/18/2028	Along Pourroy Road from Pat Road to Keller Road and along Keller Road between Pourroy Road and Leon Road. - 1,100 ft of 24" pipe, 6,700 ft of 30" pipe
MOUNTAIN VIEW II 7MG TANK (TVPW-105)	Kowalski, Gregory J. X4466		\$18,154,170	3/31/2027	9/16/2030	11/15/2028	6/30/2030	Existing Mountain View Storage Tank site. - 7.0 MG tank, 200 ft of 30" pipe
SIMPSON ROAD TRANSMISSION MAINS (SJPW-707)	Kowalski, Gregory J. X4466		\$12,782,000	7/1/2027	2/10/2030	10/20/2028	12/25/2029	Simpson Road between Warren Road and Patterson Avenue/Existing Simpson Patterson Pump Station site. - 13,600 ft of 42" pipe
WELL 27 REPLACEMENT DRILLING	Kowalski, Gregory J. X4466		\$2,061,800	5/28/2027	12/10/2028	2/26/2028	10/19/2028	Well 27 replacement
EM-11 BPS AND PIPELINE - PHASE I	Broadhead, Joseph x4545		\$54,830,771	7/1/2028	12/6/2035	6/14/2033	11/9/2035	New 36,000 gpm BPS at the EM-11 connection and 32,000 feet of 84-inch pipeline north from EM-11 to the existing 30-inch pipeline in Craig Ave. From Lake Skinner Water Treatment Plant to Perris Valley South.
INDIAN AVENUE HIGH PRESSURE TRANSMISSION BACKBONE (PVPW-602)	Kowalski, Gregory J. X4466		\$15,734,350	6/22/2028	2/2/2031	10/12/2029	12/17/2030	Along Indian Avenue from Harley Knox Boulevard to Rider Street. - 100 ft of 30" pipe, 10,200 ft of 72" pipe, 1 x 24" valve
PERRIS II DESALTER OSG UPGRADE	Kowalski, Gregory J. X4466		\$2,000,000	5/1/2028	3/13/2030	12/12/2028	2/16/2030	



PROJECTS TO START DESIGN WITHIN 5 YEARS



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PROJECT NAME	PROJECT MGR	PROJECT ENG	PROJECT BUDGET	DESIGN PHASE DATES		FINAL DESIGN DATES		LOCATION/DESCRIPTION
				START	FINISH	START	FINISH	
SUN CITY LEAKY PIPE REPLACEMENT PHASE 5	Kowalski, Gregory J. X4466		\$2,761,395	7/5/2028	7/24/2030	3/10/2029	6/27/2030	2,500 lf of 8-inch pipe in E, Rancho Drive, 1,600 lf of 8-inch pipe in Agusta Dr, 300 lf of 8-inch pipe in W Berkey Ct, 1,700 lf of 8-inch pipe in Winged Foot Dr., 1,600 lf of 8-inch pipe in Chambers Ave, 500 lf of 8-inch pipe in Camden Wy, 1,000 lf of 8-inch pipe in Start Rd, 1,000 lf of 8-inch pipe in Howard Dr, 300 lf of 8-inch pipe in Preslet Dr. Tota length 10,500 LF of 8-inch pipe.
SEWER			\$161,010,821					
2023 PERRIS AND SAN JACINTO VALLEY FLOW MONITORING AND MODEL CALIBRATION	Barraza, Laura X4228		\$525,000	10/1/2023	12/14/2024			The project will capture dry and wet weather flows in the Perris Valley sewer collection system for 3 and 10 weeks, respectively. The flow monitoring data will be used to calibrate the Perris Valley InfoSewer hydraulic model.
WASTEWATER COLLECTION SYSTEM CONDITION ASSESSMENT	Toland, Scott x4471		\$565,000	12/1/2023	10/31/2024			Wastewater collection system condition assessment.
RWRF SCADA STANDARDS DEVELOPMENT	Toland, Scott x4471		\$148,750	1/23/2024	3/1/2025			Develop a standard guideline for SCADA integration into CIP projects for RWRFs.Planning Study only.
GOLDEN TRIANGLE LIFT STATION ABANDONMENT	Toland, Scott x4471		\$479,500	10/15/2025	9/1/2026	3/17/2026	8/7/2026	Lift Station abandonment and associated gravity pipeline.
PERRIS BLVD NORTH 12 INCH REPLACEMENT (MVSC-102)	Toland, Scott x4471		\$1,424,160	8/2/2025	8/21/2027	4/7/2026	7/25/2027	Perris Boulevard between Sunnymead Boulevard and Eucalyptus Avenue - 2,600 ft of 12" pipe.
RIDER ST 21 INCH REPLACEMENT	Toland, Scott x4471	Chen, William J	\$4,215,000	1/4/2025	6/13/2027	4/9/2026	5/9/2027	Replace 1,340 ft of 15" pipe with 21" pipe in Rider St Between Evans Rd and Old Evans Rd
PVRWRF REHABILITATION	Toland, Scott x4471	Picazo Jr., Abdiel	\$12,500,000	4/1/2026	7/17/2028	2/25/2027	2/24/2028	This project will take place at Perris Valley Regional Water Reclamation Facility (PVRWRF). The project will correct deficiencies identified and provide improvements that need to be addressed at PVRWRF provide a more reliable facility.
RULE 21 INTERCONNECT AGREEMENT WITH SCE FOR CLOSED TRANSITION	Toland, Scott x4471		\$411,000	12/27/2026	9/3/2027	5/19/2027	8/7/2027	Install grounding banks and telemetry to support agreements at three RWRF's (PV, MV and SJV)
SJVRWRF REHABILITATION	Toland, Scott x4471	Picazo Jr., Abdiel	\$12,500,000	4/1/2026	7/17/2028	2/25/2027	2/24/2028	This project will take place at San Jacinto Valley Regional Water Reclamation Facility (SJVRWRF). The project will correct deficiencies identified and provide improvements that need to be addressed at SJVRWRF to provide a more reliable facility.
SJVRWRF VACTOR TRUCK DUMP STATION	Toland, Scott x4471	Meacham, Daniel	\$4,230,000	11/2/2026	10/27/2027	6/4/2027	10/2/2027	Design and construct a facility for dumping and processing solids from vactor trucks at the SJVRWRF.
MVRWRF VACTOR TRUCK DUMP STATION	Toland, Scott x4471	Meacham, Daniel	\$2,115,000	7/1/2027	2/13/2028	11/8/2027	1/19/2028	Design and construct facility for dumping and processing solids from vactor trucks at the MVRWRF.



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PROJECT NAME	PROJECT MGR	PROJECT ENG	PROJECT BUDGET	DESIGN PHASE DATES		FINAL DESIGN DATES		LOCATION/DESCRIPTION
				START	FINISH	START	FINISH	
PARADISE PALM AVE 15 INCH REPLACEMENT (PVSC-102)	Toland, Scott x4471	Li, Xiaoxue	\$1,834,991	7/1/2027	5/27/2031	4/6/2030	5/4/2031	Paradise Palm Ave from Leon Rd to Sultanas Rd - 2,880 ft of 15" pipe
RWRF DIGESTER GAS UTILIZATION PILOTS	Toland, Scott x4471	Meacham, Daniel	\$1,400,000	7/1/2027	10/15/2029			Install and test a digester gas driven turbine blower offered by Neuros at either the MVRWRF or TVRWRF. Project includes combined heat and power functionality considerations. Project becomes proof of concept for application of the novel device to enhance the utilization of digester gas.
TVRWRF 28 MGD EXPANSION (TVST-100B)	Toland, Scott x4471	Picazo Jr., Abdiel	\$117,907,000	9/1/2027	4/23/2031	5/14/2029	1/6/2031	Full Plant expansion of facilities required to bring total treatment capacity up to or exceeding 28MGD.
WHITEWOOD 18 INCH REPLACEMENT (TVSC-303)	Toland, Scott x4471		\$755,420	6/14/2028	4/26/2030	1/25/2029	4/1/2030	Whitewood Rd south of Clinton Keith Rd - 1,340 ft of 18" pipe
RECYCLED			\$48,180,203					
BRADLEY ROAD SOUTH RW PIPELINE (PVRW-027)	Toland, Scott x4471		\$2,496,000	2/3/2025	9/4/2026	10/5/2025	8/4/2026	Bradley Road between La Piedra Road and Craig Avenue. 5200 LF of 12-in Pipe.
WINCHESTER POND IMPROVEMENTS STUDY	Toland, Scott x4471		\$675,000	7/1/2025	9/14/2026			Repair and stabilize slopes on pond A and B.
REC WTR SYSTEM OPTIMIZATION STUDY	Toland, Scott x4471	Wuerth, John	\$432,000	2/6/2026	4/20/2027			Conduct assessment of necessary recycled water storage related parameters including but not limited to flow, level, percolation rates and capacity curve. Assessment will include descripton of storage data requirements and recommended data points, level of granularity, collection frequency and analytics.
ANNUAL ALLOCATION - CATHODIC PROTECTION	Toland, Scott x4471		\$4,250,000	12/30/2027	3/14/2029	12/30/2027	3/14/2029	Projects are identified by Cathodic Protection consultant, and agreed to by interdepartment committee.
BRADLEY ROAD NORTH RW PIPELINE (PVRW-002)	Toland, Scott x4471		\$3,400,000	9/29/2027	3/15/2030	5/16/2029	2/16/2030	Bradley Road between La Piedra Road and Potomac Drive. 5600 LF of 18-in Pipe
INDIAN AVENUE RW DISTRIBUTION PIPELINE	Toland, Scott x4471		\$2,025,000	1/3/2027	10/2/2028	12/31/2027	9/7/2028	Approximately 10,000' of 12-inch pipeline within Indian Avenue. Project will loop system, connect existing conversion and serve future devleopment. Pipeline is primarily developer driven and will be partially developer funded.
REDLANDS BLVD CROSSING	Toland, Scott x4471		\$595,000	3/1/2027	3/28/2028	10/12/2027	3/3/2028	Install new recycled water crossing Ramona Expy in Redlands Blvd.
SANTA GERTRUDIS 24" RW PIPELINE REPLACEMENT	Toland, Scott x4471		\$3,000,000	7/1/2027	7/6/2030	4/6/2029	6/11/2030	Replace approximately 750 LF of up to 36 inch accross Santa Gertrudis Creek.
WINCHESTER POND SITE OPTIMIZATION PHASE III	Toland, Scott x4471		\$8,000,000	7/1/2027	6/16/2028	2/4/2028	5/22/2028	Regrade pond C to provide uniform slope on bottom and install a crossover pipe between ponds B & C.



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				START	FINISH	START	FINISH	
WINCHESTER TANK (PVRW-025)	Toland, Scott x4471		\$5,000,000	7/1/2027	7/22/2030	9/22/2029	6/25/2030	2.0 MG in Winchester (1627) zone to provide elevated diurnal storage. Tank may be avoided depending on location of new development.
ALESSANDRO POND OPTIMIZATION PHASE II	Toland, Scott x4471		\$2,000,000	9/3/2028	7/1/2030	7/16/2029	5/31/2030	Re-grade ponds 2 and 3 to maximize seasonal storage. Provide slope armament as required for erosion control and modify onsite piping for better management of pond filling and transfer operations.
FRUITVALE PIPELINE UPSIZE (SJRW-005)	Toland, Scott x4471	Balvaneda, Fermin	\$4,224,000	3/22/2028	8/29/2029	10/29/2028	8/1/2029	From Devonshire Ave @ California Ave to tank through neighborhood streets. 5000 LF of 24" Pipe. Replace existing 12" inlet/outlet piping with 24" piping.
PARKWEST SPEC PLN 36" RW PIPELINE (PVRW-018)	Toland, Scott x4471		\$6,145,203	3/26/2028	9/2/2029	11/2/2028	8/5/2029	In the City of Perris there is an existing 36" Recycled Water Transmission Pipeline, with a temporary non-exclusive easement. There is a written agreement in place between EMWD and the property owner, for EMWD to relocate this pipeline within three months of the recordation of the Tract map. In order to start the design of this relocation, we need to design plans of the proposed street alignments. These plans have not been provided yet to EMWD, and as of January 2013, this development has been idled for over two years.
RICE ROAD NORTH RW PIPELINE (PVRW-019)	Toland, Scott x4471		\$1,898,000	3/27/2028	9/3/2029	11/3/2028	8/6/2029	2900 LF of 24-in Pipe north of Rice Road from Olive Avenue to Simpson Road
SKILAND POND NORTH RECYCLED WATER PUMP STATION	Toland, Scott x4471		\$1,440,000	5/1/2028	8/3/2030	10/31/2029	7/9/2030	Install one additional floater pump in the north pond and associated electrical and piping.
TVRWRF TEPS DUAL ZONE SPLIT (TV-RW-003)	Toland, Scott x4471		\$2,600,000	2/20/2028	11/15/2029	2/12/2029	10/21/2029	Install facilities to enable TEPS to pump to two different pipes - one for 1520 / Palomar and one for 1508 / Benton; potentially wet well
GENERAL			\$9,532,420					
ASSET MANAGEMENT PROGRAM GAP ANALYSIS	Stone, Shaun X4461		\$750,000	12/1/2023	2/11/2025			This study will cover our internal process and how we manage our assets.
EMWD HQ GENERATOR FUEL TANK UPGRADE	Stone, Shaun X4461		\$862,420	7/1/2027	6/27/2029	9/9/2028	4/16/2029	Project is to replace existing diesel tank from 500-gal to 1500-gal.
WATER EDUCATION CENTER AND GARDENS	Stone, Shaun X4461		\$7,920,000	4/5/2027	11/13/2029	1/2/2029	9/23/2029	This project will build a water education center and garden at the EMWD headquarters. Currently, the project is planned at the south end of the OMC parking lot and extending westerly into the staff parking lot. Public and Governmental Affairs is driving the project to improve customer awareness.