

# Capital Improvement Program FY 2022-23



Rep. Darrell Issa (CA-50)

Delivering value to our customers and the communities we serve by providing safe, reliable, economical and environmentally sustainable water, wastewater and recycled water services.







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# Purpose of Report

Eastern Municipal Water District (EMWD) is future-focused. Therefore, we plan for and construct state-of-the-art facilities and infrastructure in order to meet the dynamic and growing water treatment and delivery, wastewater collection and treatment, and recycled water delivery needs of EMWD's 558 square mile service area. This extensive and robust infrastructure is developed with well-managed and cost-effective solutions at the forefront throughout the planning, design, and construction process.

EMWD's Capital Improvement Program (CIP) is a 5-year snapshot of our long-term Capital Improvement Plan document which contains all of the water treatment and delivery, wastewater collection and treatment, and recycled water distribution system capital improvements that are needed to support the buildout of existing jurisdictional General Plans throughout our service area.

The CIP relies on the Capital Improvement Plan document and Facility Master Plans for our water, wastewater, and recycled water systems to identify the improvements needed, establish when they will be needed and provide updated estimates of their costs. The funding needed to support EMWD's short and long-term expansion of the systems is summarized in the CIP. The CIP also schedules the necessary construction by project year and aligns the financing necessary to meet this schedule.

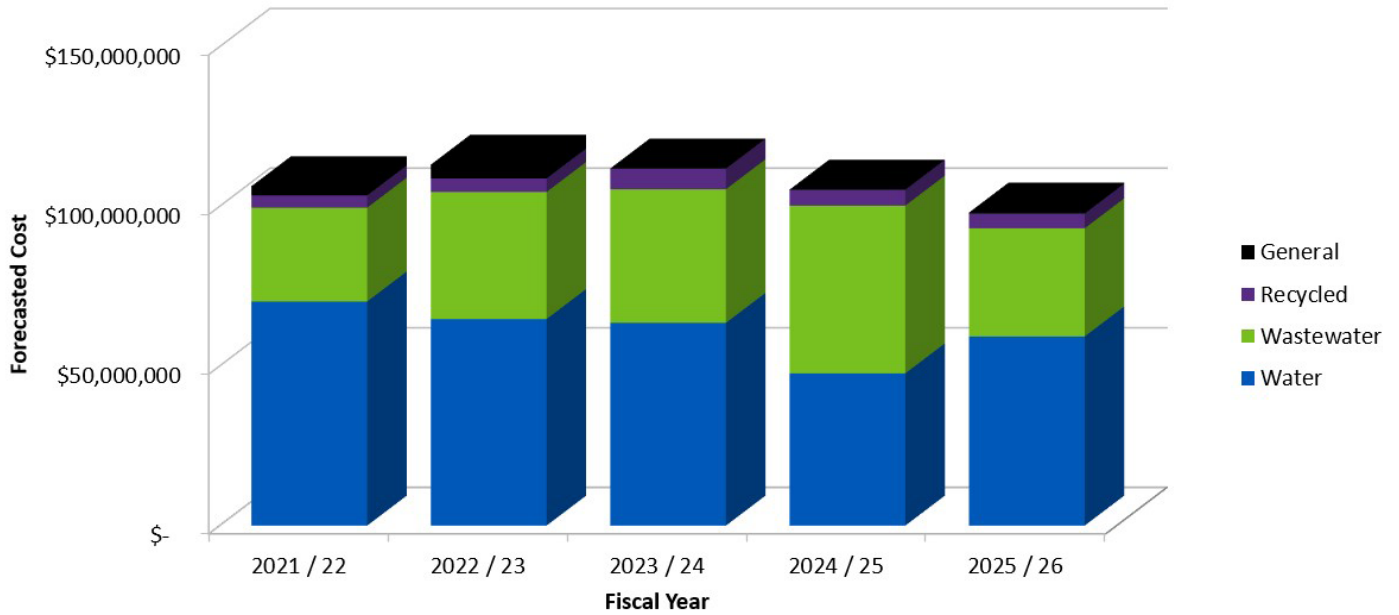
The projects in the CIP are tracked during the current year and the entire five year program is reviewed and revised on an annual basis. During the annual review, projects are added, deferred or deleted based on current growth projections and any newly identified requirements are prioritized into the respective future years. This report provides an overview of current active projects.



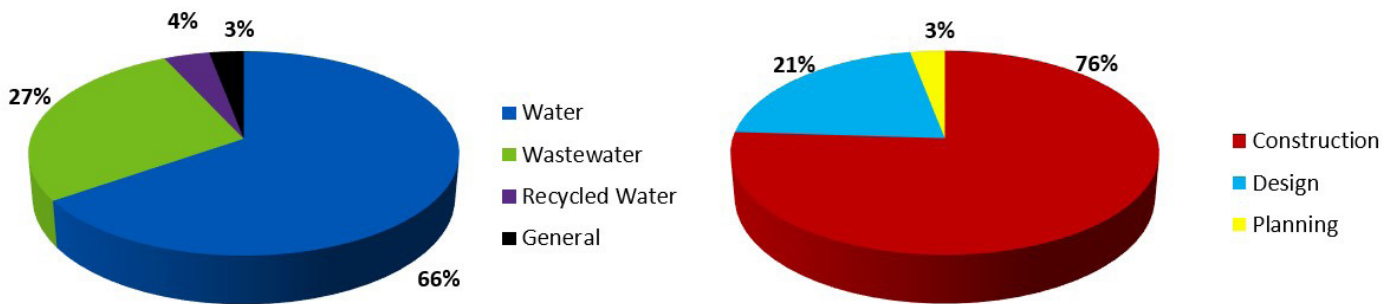
*Mountain Avenue West Groundwater Replenishment Basins*

# Capital Improvement Program Summary

## 2021 – 2026 Overview

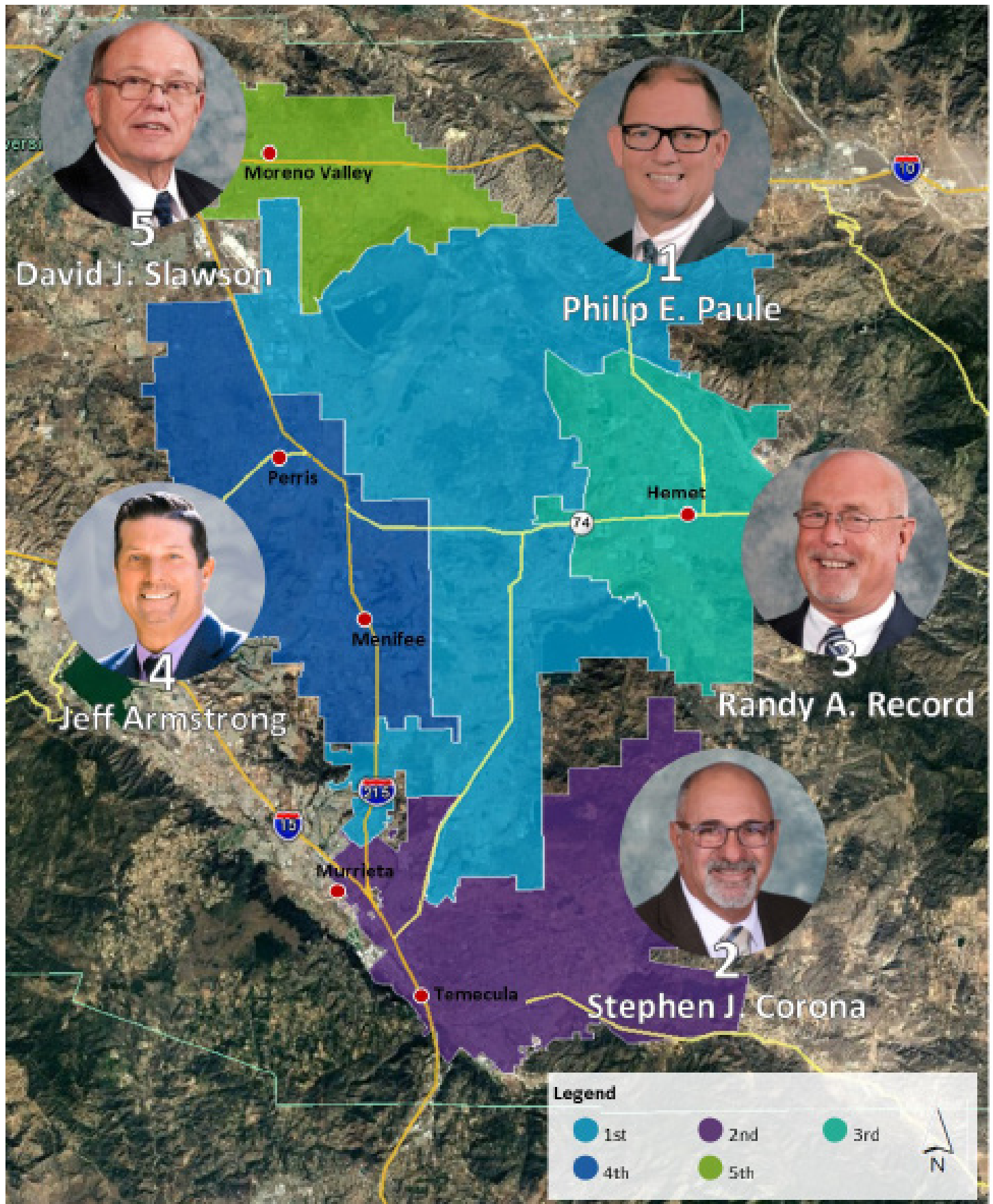


## FY 2021 / 2022 Overview



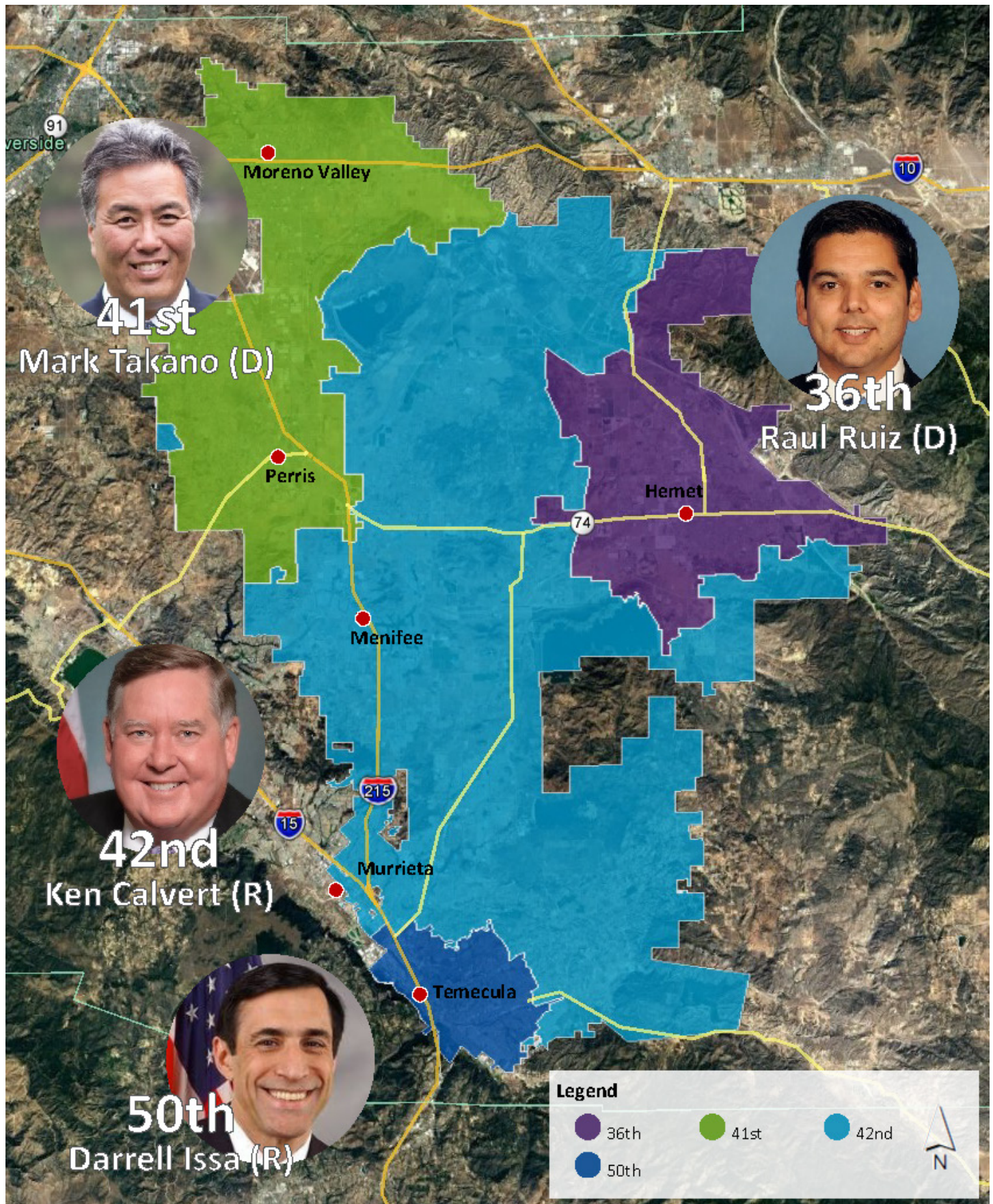
PROJECT TYPE	COUNT	2021 – 22 (\$ Million)
WATER	94	\$70.2 Mil
WASTEWATER	62	\$29.4 Mil
RECYCLED	17	\$3.8 Mil
GENERAL	8	\$2.9 Mil
TOTAL	181	\$106.3 Mil

# Board Member Divisions





# Congressional Districts



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# Diaz Lift Station Replacement

## PROJECT SUMMARY

The Diaz Sewage Lift Station Replacement will consist of 655 linear feet of 33-inch diameter gravity sewer from the existing Diaz Lift Station to the proposed lift station. The proposed lift station will be approximately 700 feet north of the existing Diaz Lift Station along the west bank of the Murrieta Creek. The depth of the gravity sewer will vary from 25' to 29' at the proposed lift station site. The wet well will be approximately 46' deep and the lift station will convey an ultimate wet weather peak (WWP) flow of 12 MGD. In addition, approximately 925 linear feet of existing 8-inch diameter gravity sewer along Diaz Road will be replaced with a 15-inch diameter gravity sewer and connected to the new lift station. The lift station will be located at the intersection of Diaz Road and Rancho Way.

## CURRENT STATUS:

Design

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Summer 2026
- Finish: Winter 2028/2029

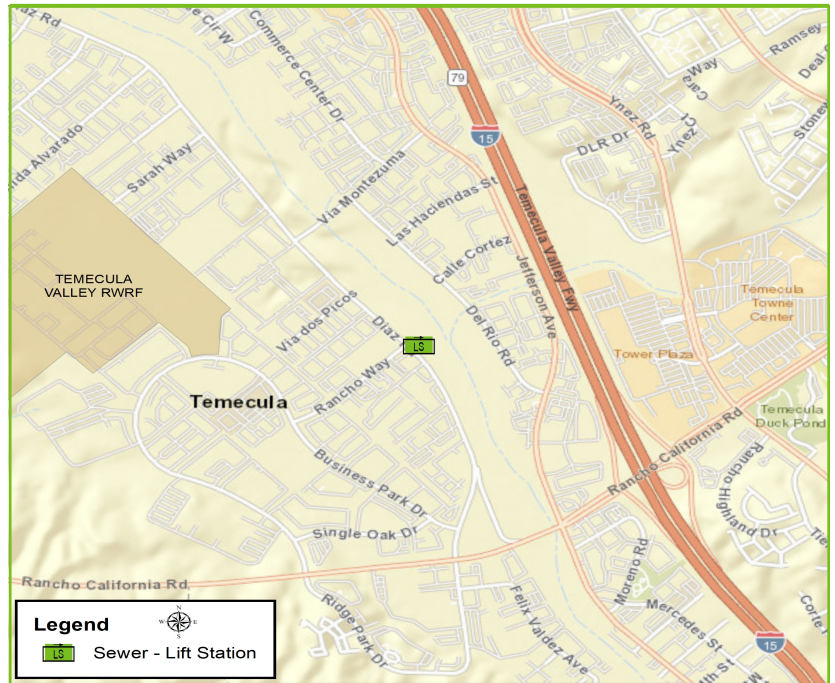
## PROJECT BUDGET

- Estimated Total Project Budget: \$33,066,000
- Estimated Construction Budget: \$28,853,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD strives to protect public health through the safe and reliable transmission of wastewater from homes and business to its regional water reclamation facilities.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
Public Affairs Manager
- PHONE: 951-928-3777 ext. 4391
- EMAIL: rountrr@emwd.org
- EMWD BOARD MEMBER:  
Director Stephen J. Corona  
Division No. 2

# Diaz Sewer Modification

## PROJECT SUMMARY

Upsize approximately 1,500 linear feet of 8-inch to 15-inch gravity sewer along Diaz Road from north of Rancho Way to Diaz Lift Station within the City of Temecula. Project must address utility interference, including existing storm drain crossing Diaz Road.

**CURRENT STATUS:** Design

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Spring 2023
- Finish: Fall 2025

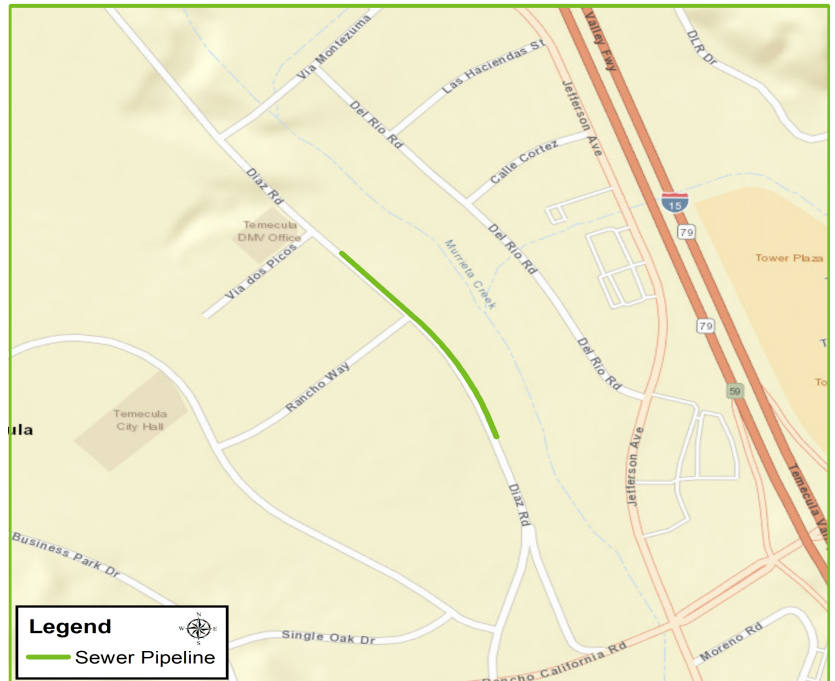
## PROJECT BUDGET

- Estimated Total Project Budget: \$6,954,000
- Estimated Construction Budget: \$6,330,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD strives to protect public health through the safe and reliable transmission of wastewater from homes and business to its regional water reclamation facilities.

## PROJECT LOCATION



## MORE INFORMATION

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Director Stephen J. Corona  
Division No. 2



# Front Street Lift Station Rehab

## PROJECT SUMMARY

Upon recent inspection, it was determined that the wetwell piping and coating system is deteriorated and approaching the end of its useful life. This project will replace the discharge pipes with stainless steel materials and install new corrosion resistant guide rails. To accommodate the project work, the wetwell must be bypassed during construction. Project location: 44980 Old Town Front Street, Temecula, CA

**CURRENT STATUS:** Design

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Summer 2023
- Finish: Summer 2024

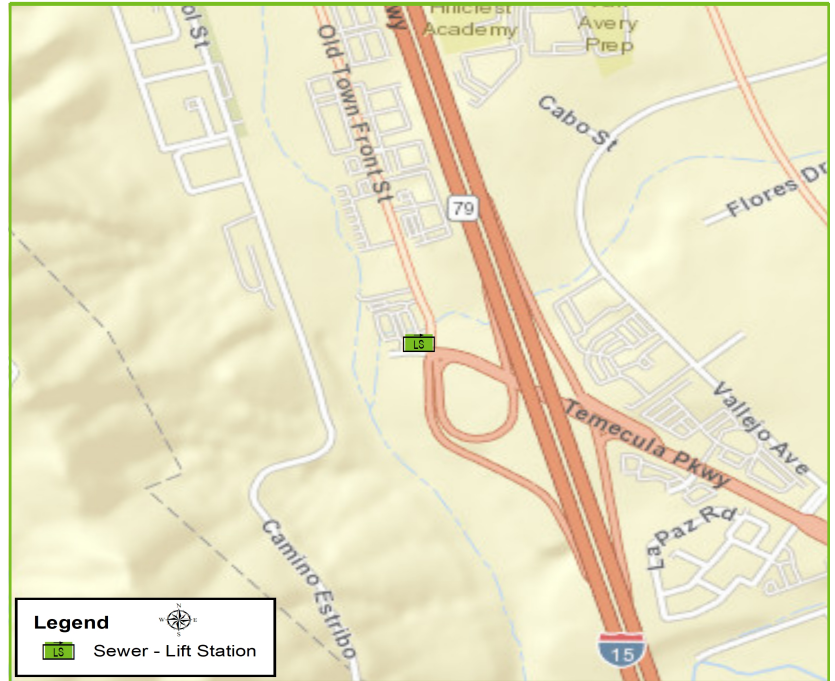
## PROJECT BUDGET

- Estimated Total Project Budget: \$959,000
- Estimated Construction Budget: \$700,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD strives to protect public health through the safe and reliable transmission of wastewater from homes and business to its regional water reclamation facilities.

## PROJECT LOCATION



## MORE INFORMATION

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Director Stephen J. Corona  
Division No. 2

# Temecula Valley Regional Water Reclamation Facility Condition Assessment Phase 1

## PROJECT SUMMARY

Condition assessment of a portion of the Temecula Valley Regional Water Reclamation Facility (TVRWRF) headworks serving Plant 1, the Plant 1 primary clarifier influent channel, and one of the two biofilters. The focus of the condition assessments will be on concrete and reinforcing steel integrity. The process areas will be inspected visually, aurally, and chemically in select locations to determine the remaining useful life of these structures. The results of this assessment can be used as a basis for rehabilitation design in the future. Location: Temecula Valley Regional Water Reclamation Facility, 42565 Avenida Alvarado, Temecula, California 92590.

## CURRENT STATUS:

**Planning**

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: N/A
- Finish: N/A

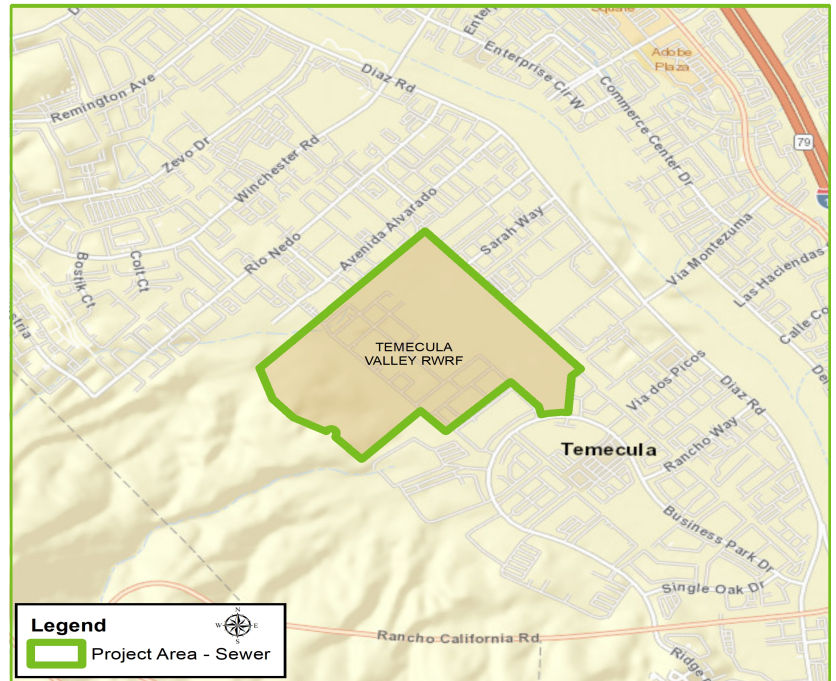
## PROJECT BUDGET

- Estimated Total Project Budget: \$73,000
- Estimated Construction Budget: N/A
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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Director Stephen J. Corona  
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# Temecula Valley Regional Water Reclamation Facility Dewatering Building Corrosion Mitigation

## PROJECT SUMMARY

This project will prepare the preliminary engineering study to mitigate corrosion in the building. Alternatives will be prepared for the modification of the fresh air intake and foul air extraction system, including the screw conveyors preliminary layout. The project is located at the Temecula Valley Regional Water Reclamation Facility at 42565 Avenida Alvarado, Temecula, California 92590.

## CURRENT STATUS:

**Bid / Construction**

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Spring 2022
- Finish: Summer 2023

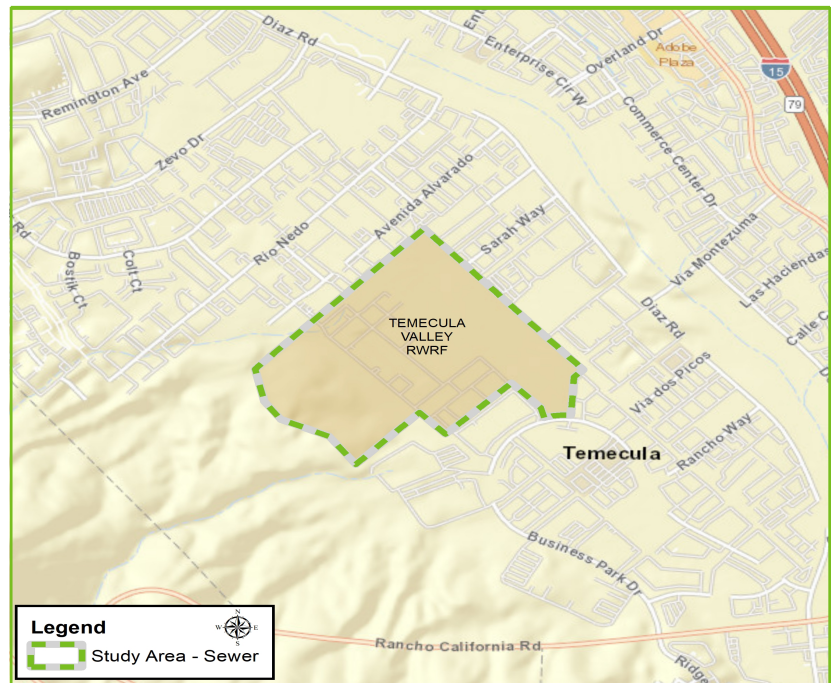
## PROJECT BUDGET

- Estimated Total Project Budget: \$2,921,000
- Estimated Construction Budget: \$2,673,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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Director Stephen J. Corona  
Division No. 2



# Temecula Valley Regional Water Reclamation Facility Erosion Control

## PROJECT SUMMARY

This project is to design and implement permanent erosion control measures at south hill site at Temecula Valley Regional Water Reclamation Facility. Location: 42565 Avenida Alvarado, Temecula, California

**CURRENT STATUS:** Bid / Construction

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Fall 2022
- Finish: Spring 2023

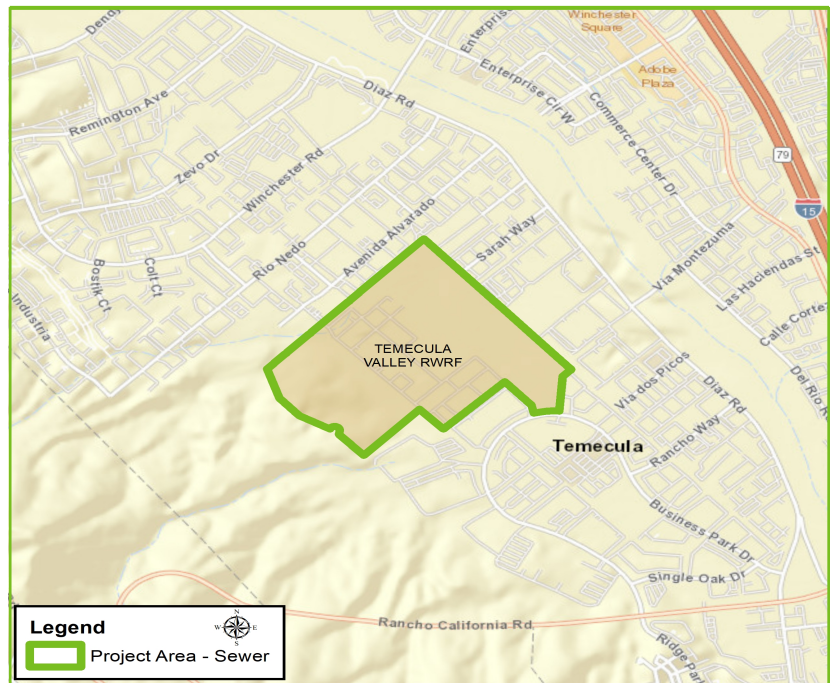
## PROJECT BUDGET

- Estimated Total Project Budget: \$280,000
- Estimated Construction Budget: \$238,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMWD BOARD MEMBER:  
Director Stephen J. Corona  
Division No. 2



# Temecula Valley Regional Water Reclamation Facility Multi Purpose Building Retrofit

## PROJECT SUMMARY

This project plans to repurpose the old blower building that was constructed in 1970s. Once renovated, the rooms could be used for various events at the Water Reclamation Facility. Construction include roof replacement, case work, floor and wall finishing, ceiling work, HVAC, lighting, plumbing work, and exterior work. Project Location: 42565 Avenida Alvarado, Temecula, California 92590.

## CURRENT STATUS:

**Bid / Construction**

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Spring 2022
- Finish: Spring 2023

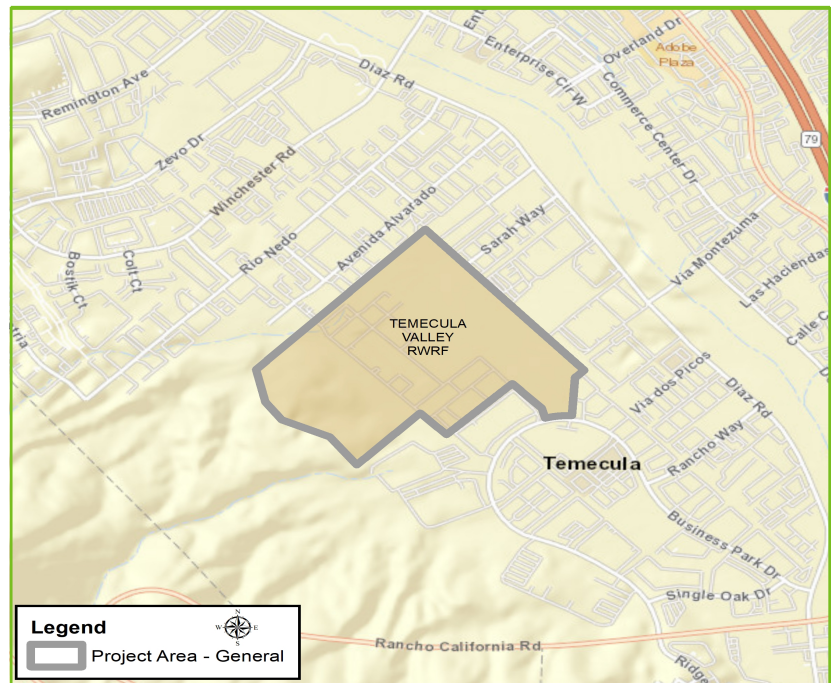
## PROJECT BUDGET

- Estimated Total Project Budget: \$2,375,000
- Estimated Construction Budget: \$2,126,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

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## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMWD BOARD MEMBER:  
Director Stephen J. Corona  
Division No. 2

# Temecula Valley Regional Water Reclamation Facility Plant 1 Air Line Replacement

## PROJECT SUMMARY

This project will design and construct a replacement aeration air system for Plant 1 consisting of above-grade stainless steel piping, providing a more durable material and better access for ongoing maintenance activities. Project Location: TVRWRF, 42565 Avenida Alvarado, Temecula, California 92590

## CURRENT STATUS:

Design

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Summer 2023
- Finish: Fall 2024

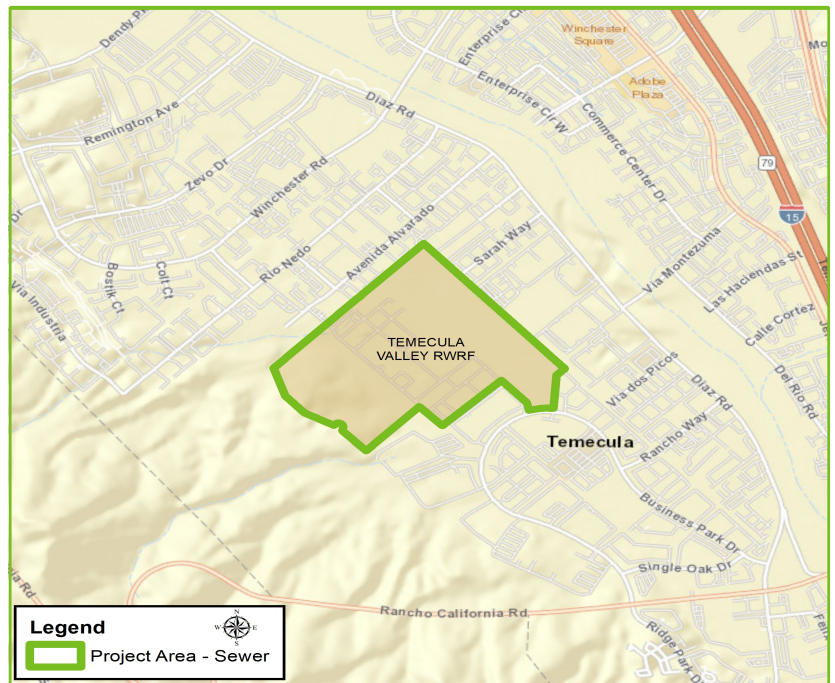
## PROJECT BUDGET

- Estimated Total Project Budget: \$2,911,000
- Estimated Construction Budget: \$2,400,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

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## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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Director Stephen J. Corona  
Division No. 2

# Temecula Valley Regional Water Reclamation Facility Stormwater Assessment and Improvement

## PROJECT SUMMARY

The Temecula Valley Regional Water Reclamation Facility (TVRWRWF) is located at 42565 Avenida Alvarado in Temecula, California. Due to an immense rain event causing on-site flooding at this Facility, a detailed hydraulic assessment of the site was completed identifying stormwater runoff from an adjacent hillside as a contributor to the flooding and provided mitigation measures. As a result of the assessment, final design provides permanent flood control measures and best management practices (BMPs) for erosion control, hardening of an earthen channel, a new spill control pond, and an optional desilting basin. The project will implement the final design improvements to mitigate the occurrence of ponding adjacent to electrical buildings and infrastructure during intense storm events.

**CURRENT STATUS:** Bid / Construction

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Summer 2021
- Finish: Fall 2022

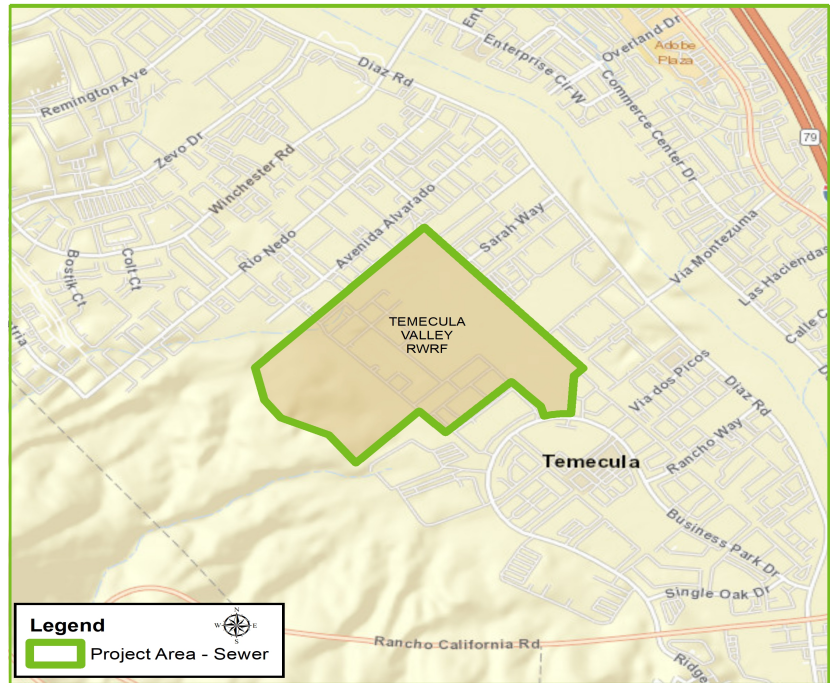
## PROJECT BUDGET

- Estimated Total Project Budget: \$4,278,000
- Estimated Construction Budget: \$3,745,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

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## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMAIL: rountrr@emwd.org
- EMWD BOARD MEMBER:  
Director Stephen J. Corona  
Division No. 2



# Warm Springs Lift Station Replacement

## PROJECT SUMMARY

Warm Springs Lift Station Replacement project is the design and construction of a new regional sewage lift station with an initial capacity of 27 MGD, including site work, yard piping, off-site piping, civil paving and grading, structural, architectural, mechanical, electrical and instrumentation, infrastructure in support of future odor control system, and demolition of the existing lift station. Project is located at 27900 Diaz Road, in the City of Temecula, at intersection of Zevo Drive.

### CURRENT STATUS:

Design

### ESTIMATED CONSTRUCTION SCHEDULE

- Start: Winter 2023/2024
- Finish: Winter 2025/2026

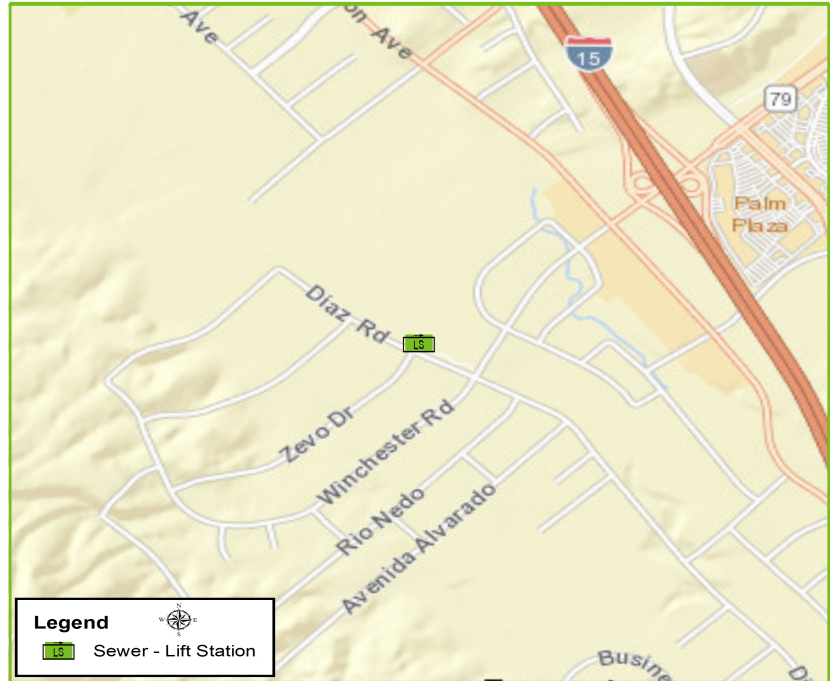
### PROJECT BUDGET

- Estimated Total Project Budget: \$35,600,000
- Estimated Construction Budget: \$29,080,000
- Estimated Grant Percentage: N/A

### PROJECT BENEFIT

EMWD strives to protect public health through the safe and reliable transmission of wastewater from homes and business to its regional water reclamation facilities.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMAIL: rountrr@emwd.org
- EMWD BOARD MEMBER:  
Director Stephen J. Corona  
Division No. 2



# Microwave Backbone Tower Sky Mesa, Hunter and Broderson Tanks

## PROJECT SUMMARY

To install a new 80-foot communications tower each for the District's microwave backbone system at Sky Mesa at 23728 Tapatia Road, Hunter at 92548 Hunter Road, and Broderson tanks at 22660 Climbing Rose Drive. The existing towers do not have the needed height.

**CURRENT STATUS:** Bid / Construction

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Fall 2020
- Finish: Fall 2022

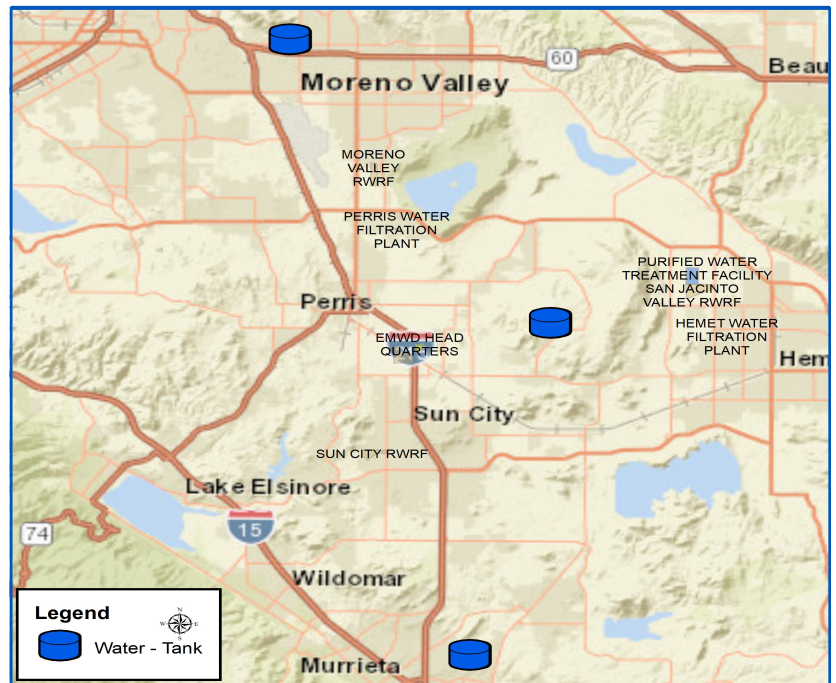
## PROJECT BUDGET

- Estimated Total Project Budget: \$758,000
- Estimated Construction Budget: \$736,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

Water storage facilities allow EMWD to provide water supply reliability, maintain system pressurization and to provide emergency water storage in the event of unplanned outages.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Alma Ramirez  
Public Affairs Officer II
- PHONE: 951-928-3777 ext. 4370
- EMAIL: ramireal@emwd.org
- EMWD BOARD MEMBER:  
Director Regional  
Division No. R

# 2021 Moreno Valley Flow Monitoring and Model Calibration

## PROJECT SUMMARY

The project will capture dry and wet weather flows in the Moreno Valley sewer collection system for three and ten weeks, respectively. The flow monitoring data will be used to calibrate the Moreno Valley InfoSewer hydraulic model.

**CURRENT STATUS:** Planning

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: N/A
- Finish: N/A

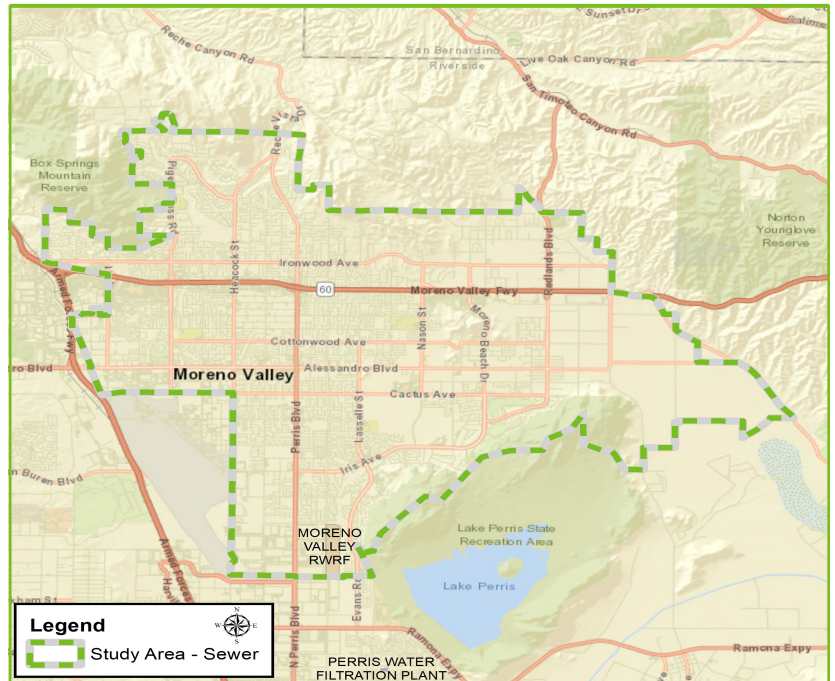
## PROJECT BUDGET

- Estimated Total Project Budget: \$589,000
- Estimated Construction Budget: N/A
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD strives to protect public health through the safe and reliable transmission of wastewater from homes and business to its regional water reclamation facilities.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Alma Ramirez  
Public Affairs Officer II
- PHONE: 951-928-3777 ext. 4370
- EMAIL: ramireal@emwd.org
- EMWD BOARD MEMBER:  
Director Regional  
Division No. R

# Regional Water Reclamation Facility Digester Gas Utilization Solicitation

## PROJECT SUMMARY

Development of a request for interest (RFI) and a request for proposal (RFP) to solicit vendors and/or other parties to accept and utilize digester gas at our four Regional Water Reclamation Facilities (RWRFs). Project Location: 770 North Sanderson Avenue, San Jacinto, California 92583; 17140 Kitching Street, Moreno Valley, California 92551; 42565 Avenida Alvarado, Temecula, California 92590; and 1301 Case Road, Perris, California 92570.

**CURRENT STATUS:** Planning

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: N/A
- Finish: N/A

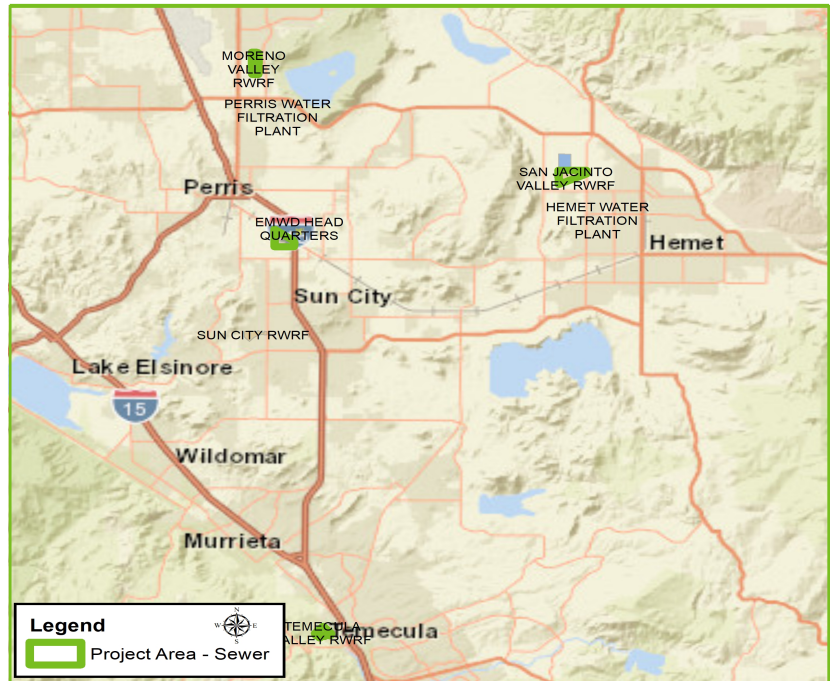
## PROJECT BUDGET

- Estimated Total Project Budget: \$175,000
- Estimated Construction Budget: N/A
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Alma Ramirez  
Public Affairs Officer II
- PHONE: 951-928-3777 ext. 4370
- EMAIL: ramireal@emwd.org
- EMWD BOARD MEMBER:  
Director Regional  
Division No. R



# Regional Water Reclamation Facility Nutrient Loading and Treatment Evaluation

## PROJECT SUMMARY

2015 Regional Water Reclamation Facility Master Plan developed new approach to identify plant expansion triggers based on daily influent volume, Biochemical Oxygen Demand (BOD)/Total Suspended Solids (TSS)/ammonia loading. Conservation effects have impacted daily influent volumes leading to higher concentrations of Biochemical Oxygen Demand, Total Suspended Solids, and ammonia.

### CURRENT STATUS:

**Planning**

### ESTIMATED CONSTRUCTION SCHEDULE

- Start: N/A
- Finish: N/A

### PROJECT BUDGET

- Estimated Total Project Budget: \$810,000
- Estimated Construction Budget: N/A
- Estimated Grant Percentage: N/A

### PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMWD BOARD MEMBER:  
Director Regional  
Division No. R



# Temecula Valley Regional Water Reclamation Facility and Perris Valley Regional Water Reclamation Facility Side Stream Treatment

## PROJECT SUMMARY

The proposed project is to design and implement a sidestream treatment system at Temecula Valley Regional Water Reclamation Facility and Perris Valley Regional Water Reclamation Facility. It will defer major expansions by addressing nitrogen reduction through the implementation of sidestream treatment. Project Location: 42565 Avenida Alvarado, Temecula, CA 92590 and 1301 Case Road, Perris, CA 92570.

**CURRENT STATUS:** **Planning**

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Summer 2024
- Finish: Fall 2025

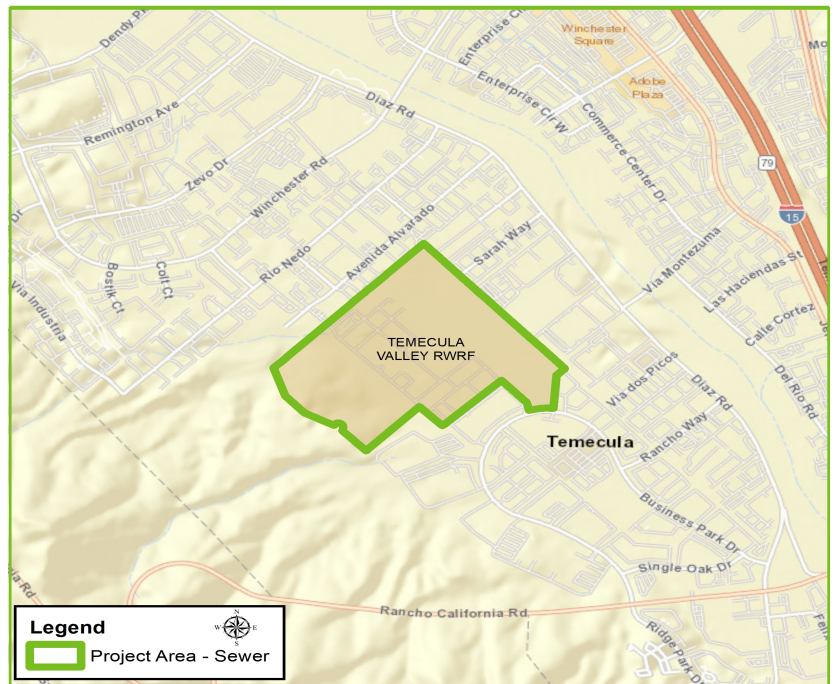
## PROJECT BUDGET

- Estimated Total Project Budget: \$14,912,000
- Estimated Construction Budget: \$12,337,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD protects public health through cost-effective projects and programs to manage biosolids, achieve long-term disposal independence through environmentally sustainable reuse, and the development of recycled water supplies.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
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- EMWD BOARD MEMBER:  
Director Regional  
Division No. R

# Recycled Water Distribution Study

## PROJECT SUMMARY

This effort will refine the service zones for conditioning new development, refine secondary distribution pipelines, develop a funding plan, and recommend policy revisions.

## CURRENT STATUS:

Planning

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: N/A
- Finish: N/A

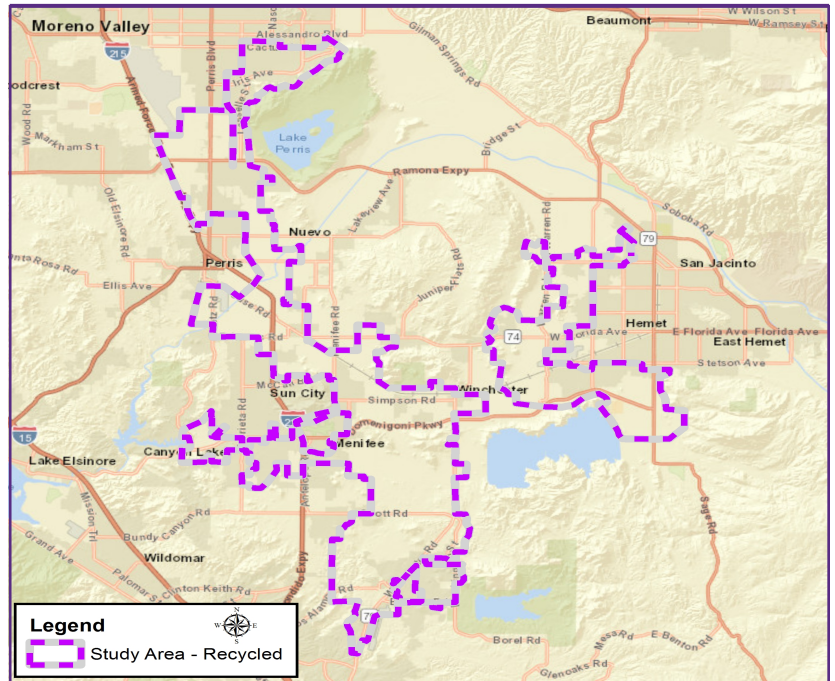
## PROJECT BUDGET

- Estimated Total Project Budget: \$200,000
- Estimated Construction Budget: N/A
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD's recycled water conveyance system is designed to provide reliability and redundancy in delivering high-quality recycled water in a cost-effective manner to help reduce reliance on drinking water supplies for irrigation and industrial purposes.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Roxanne Rountree  
Public Affairs Manager
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- EMWD BOARD MEMBER:  
Director Regional  
Division No. R



# Emergency Fuel Storage Facilities

## PROJECT SUMMARY

This project will construct emergency fuel storage and dispensing systems at eight locations throughout the District service area in order to have a minimum of five days of fuel reserves to operate during the initial days of an emergency event.

**CURRENT STATUS:** Bid / Construction

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Winter 2021/2022
- Finish: Winter 2022/2023

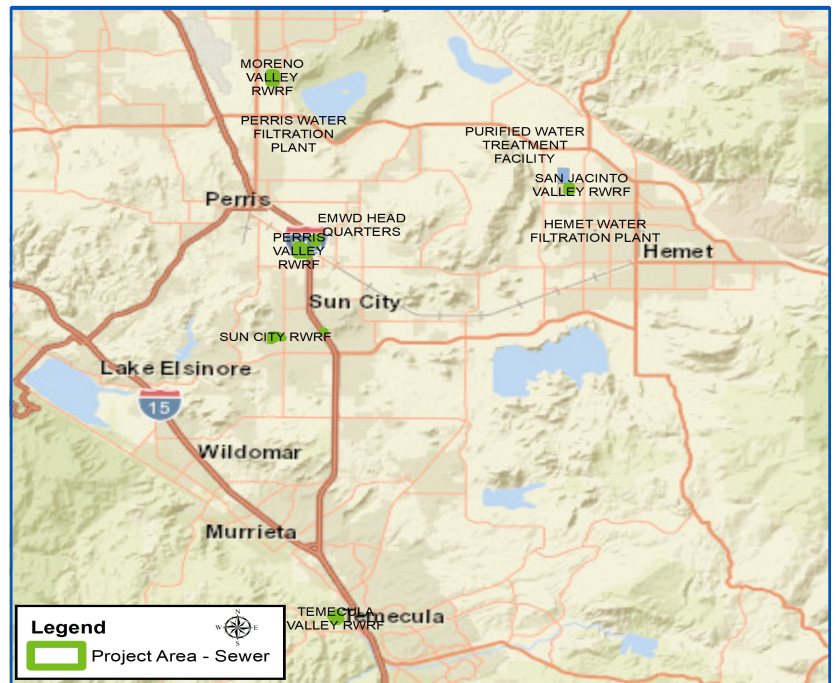
## PROJECT BUDGET

- Estimated Total Project Budget: \$4,417,000
- Estimated Construction Budget: \$4,097,000
- Estimated Grant Percentage: N/A

## PROJECT BENEFIT

EMWD's mission is to deliver value to our customers and the communities we serve by providing safe, reliable, economical and environmentally sustainable water, wastewater and recycled water services.

## PROJECT LOCATION



## MORE INFORMATION

- CONTACT: Kevin Pearson  
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# Solar Renewable Energy Initiative Phase III

## PROJECT SUMMARY

This project advances the next phase of solar power generation opportunities at the District through Southern California Edison's Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT) and/or Net Energy Metering (NEM) 2.0 programs. Project locations are targeted for the Sun City, Perris, Moreno, San Jacinto, and San Jacinto Regional Water Reclamation Facility North sites.

## CURRENT STATUS:

**Bid / Construction**

## ESTIMATED CONSTRUCTION SCHEDULE

- Start: Spring 2019
- Finish: Fall 2022

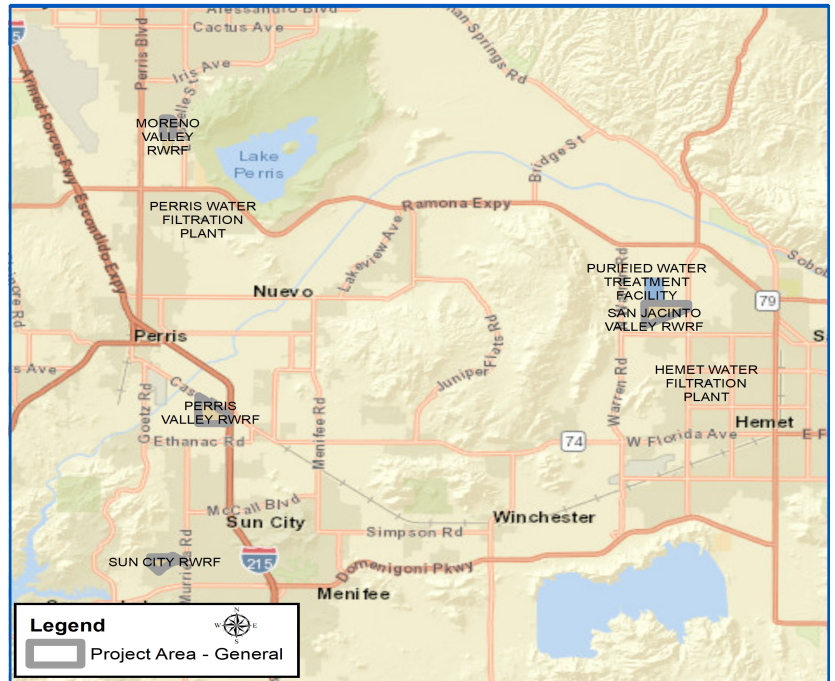
## PROJECT BUDGET

- Estimated Total Project Budget: \$3,032,000
- Estimated Construction Budget: \$1,906,000
- Estimated Grant Percentage: 94%

## PROJECT BENEFIT

EMWD's mission is to deliver value to our customers and the communities we serve by providing safe, reliable, economical and environmentally sustainable water, wastewater and recycled water services.

## PROJECT LOCATION



## MORE INFORMATION

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