

# Groundwater Monitoring Implementation Project

## Project Budget Summary and Progress Update

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March 11, 2026



# Project List Summary by Budget Task:

## Monitoring Implementation \$1,500,000

1. NSJWCD : 3 Monitoring Wells (nested)
2. SEWD: Single Shallow Monitoring Well
3. CDWA: 2 Monitoring Wells (nested)
4. SSJID: In Development (2-3 monitoring wells)

## Instrumentation Implementation \$350,000

1. Eastside San Joaquin GSA – USGS Wells: Data Logger Installations at 3 Wells
2. Multiple GSAs: GMIP 2022 Wells: Data Logger Instrumentation at 5 wells

# Project List Summary by Budget task:

## Monitoring Network Evaluation \$50,000

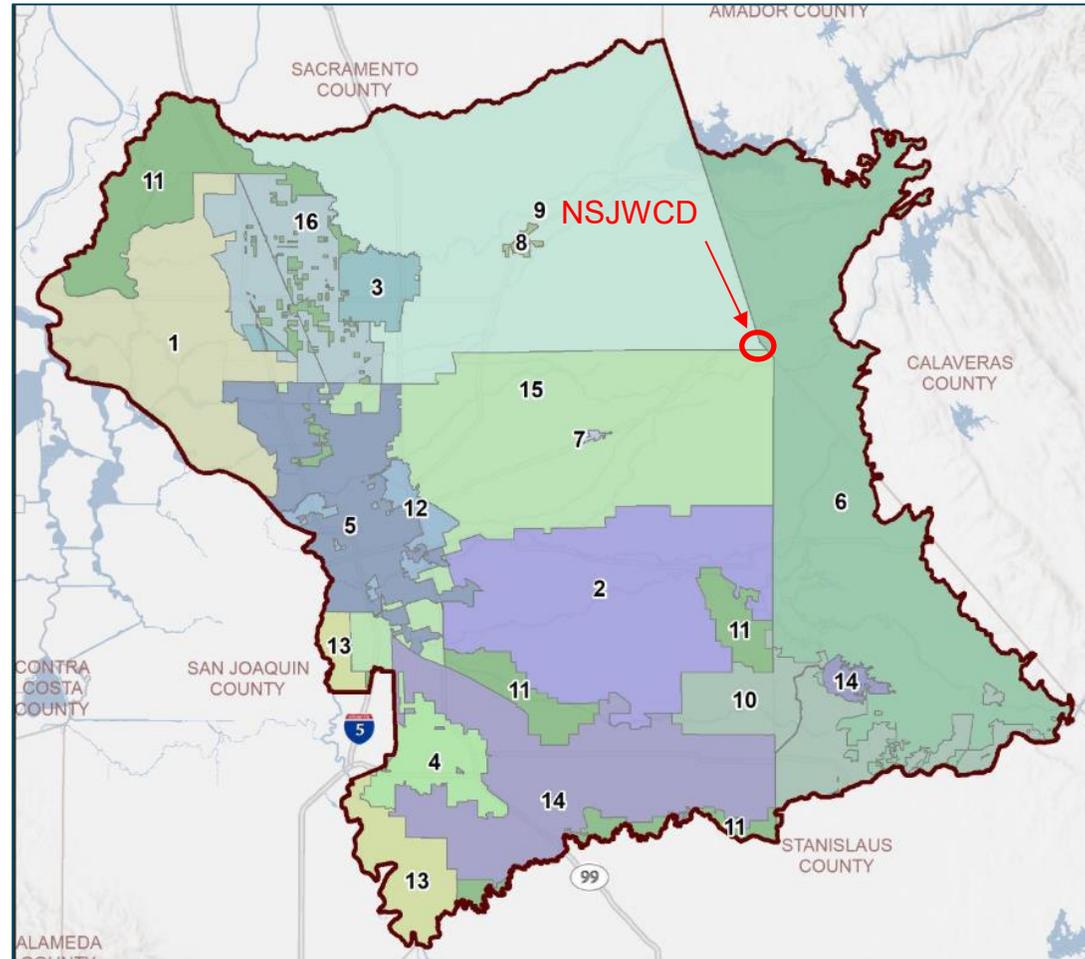
1. Completed

## Data Management System/Project Management

### \$150,000

1. On-going
2. Data acquisition/integration/
3. Modernization

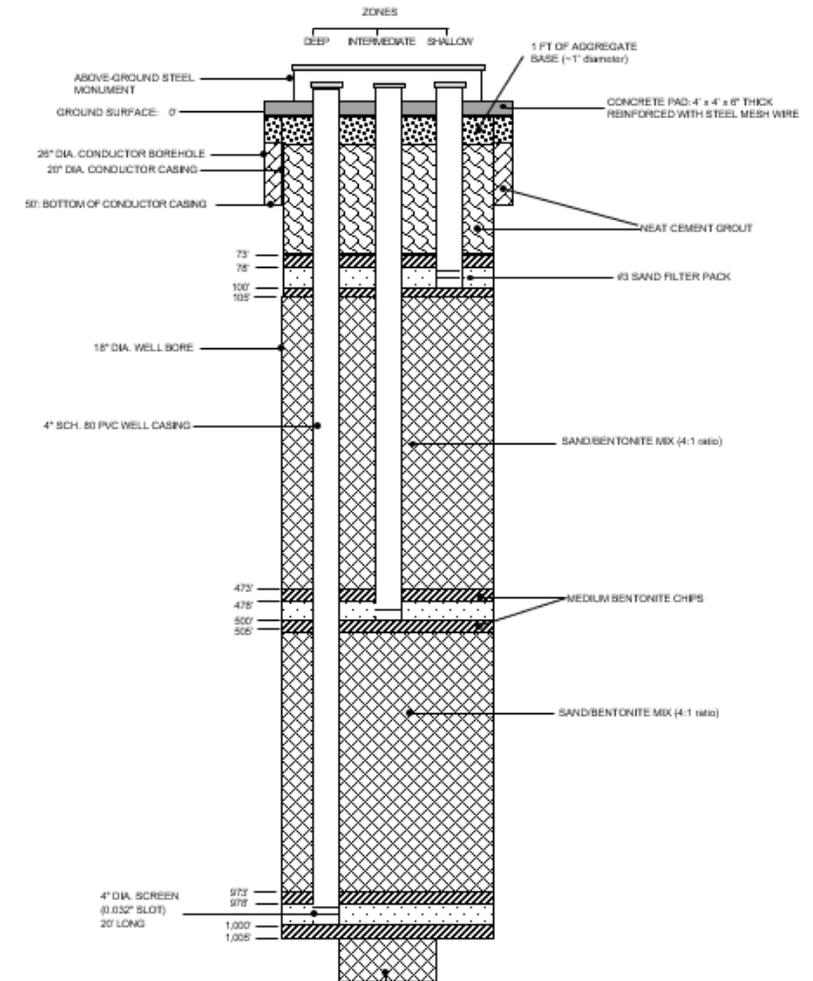
# Project 1: North San Joaquin Water Conservation District



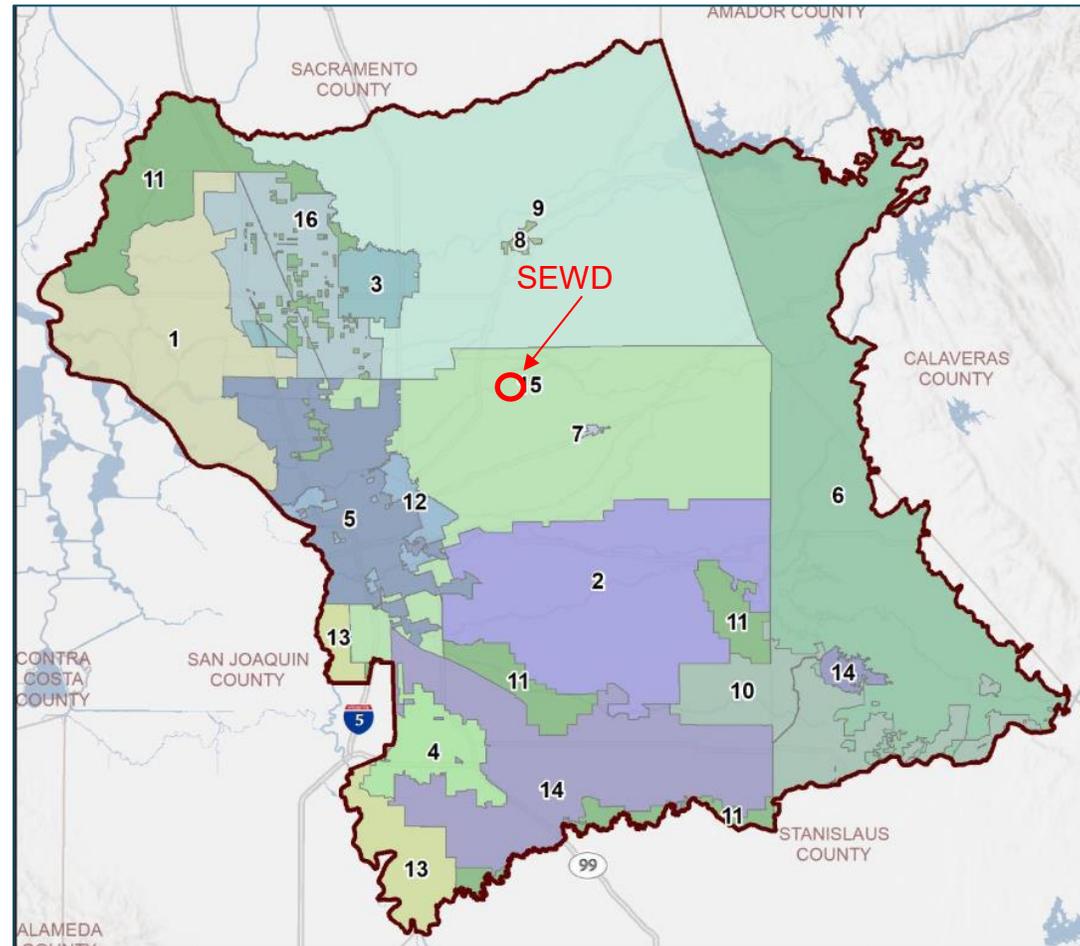
Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 1: North San Joaquin Water Conservation District

- Project:
  - Install nested monitoring well: three wells at 100 ft, 500 ft and 1000 feet bgs. Install data loggers and telemetry system.
- Data Gaps:
  - General Groundwater Levels
  - Groundwater Levels Near Streams (Indian Creek)
  - Groundwater Quality in Multiple Aquifer Zones
  - Delineation of Freshwater/Saline Interface
  - Delineation of Primary Aquifer Boundaries (Meherten-Valley Springs formation contact)
  - Increased spatial distribution, comprehensive well construction data, monitoring frequency



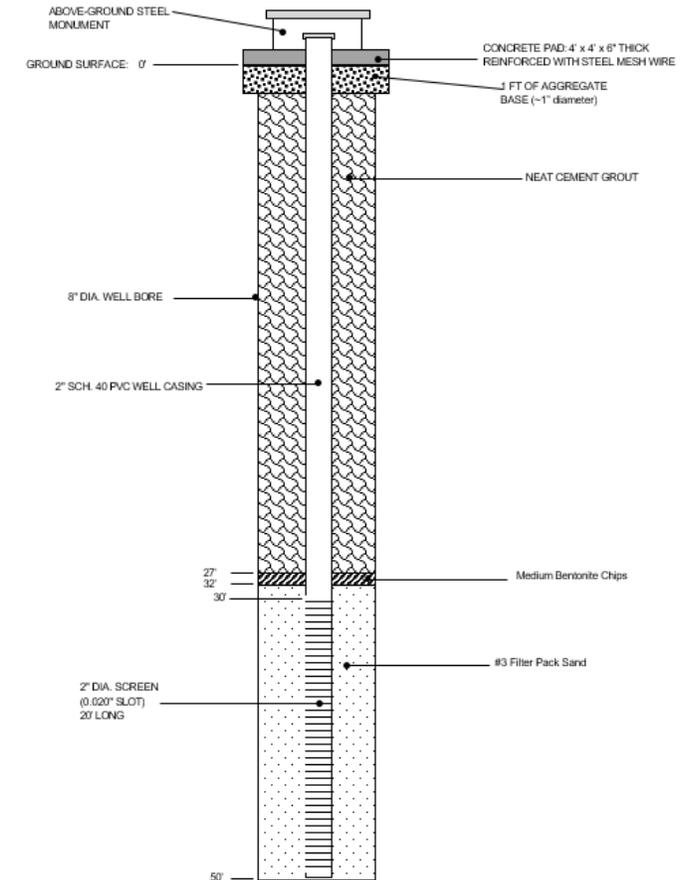
# Project 2: Stockton East Water District



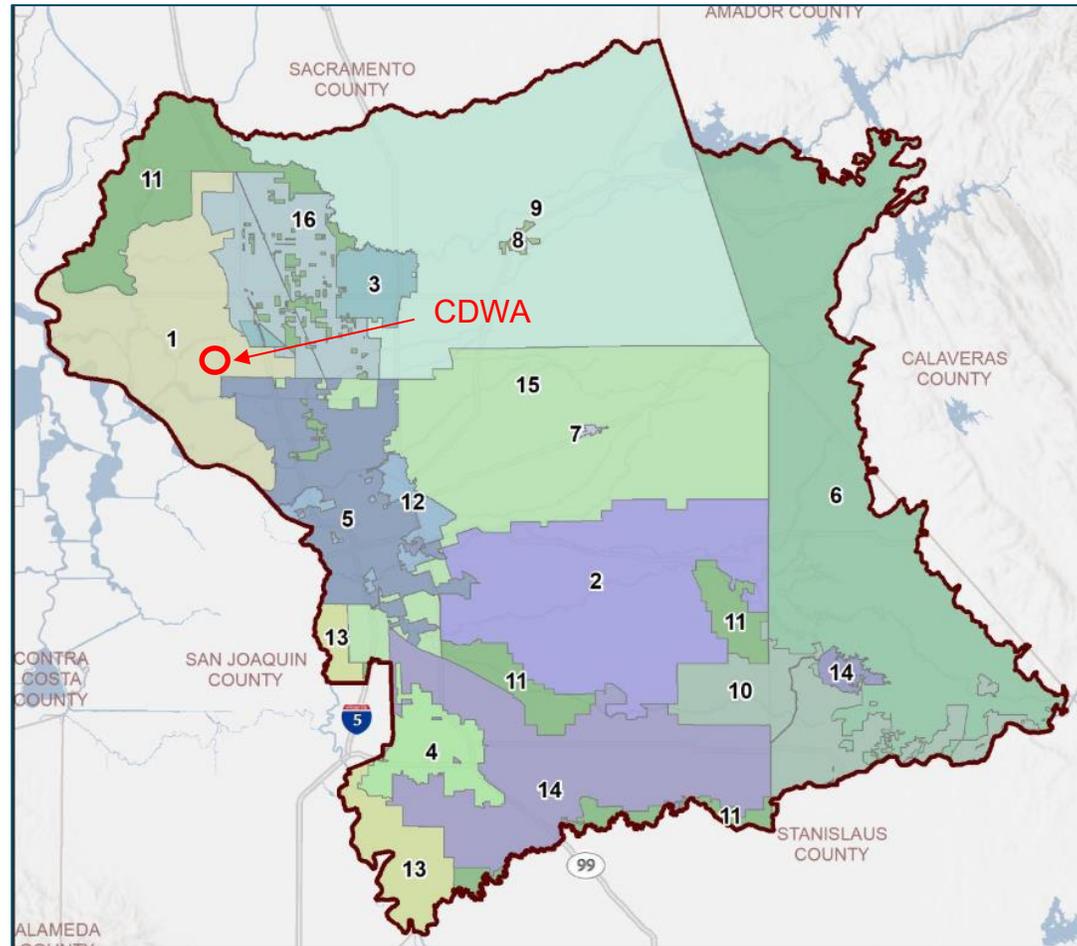
Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 2: Stockton East Water District

- Project:
  - Install a single shallow monitoring well at 50 ft bgs. Install data logger and telemetry system.
- Data Gaps:
  - General Groundwater Levels
  - Groundwater Levels Near Streams (Calaveras River)
  - Groundwater Quality Shallow Zone
  - Increased spatial distribution, comprehensive well construction data, monitoring frequency



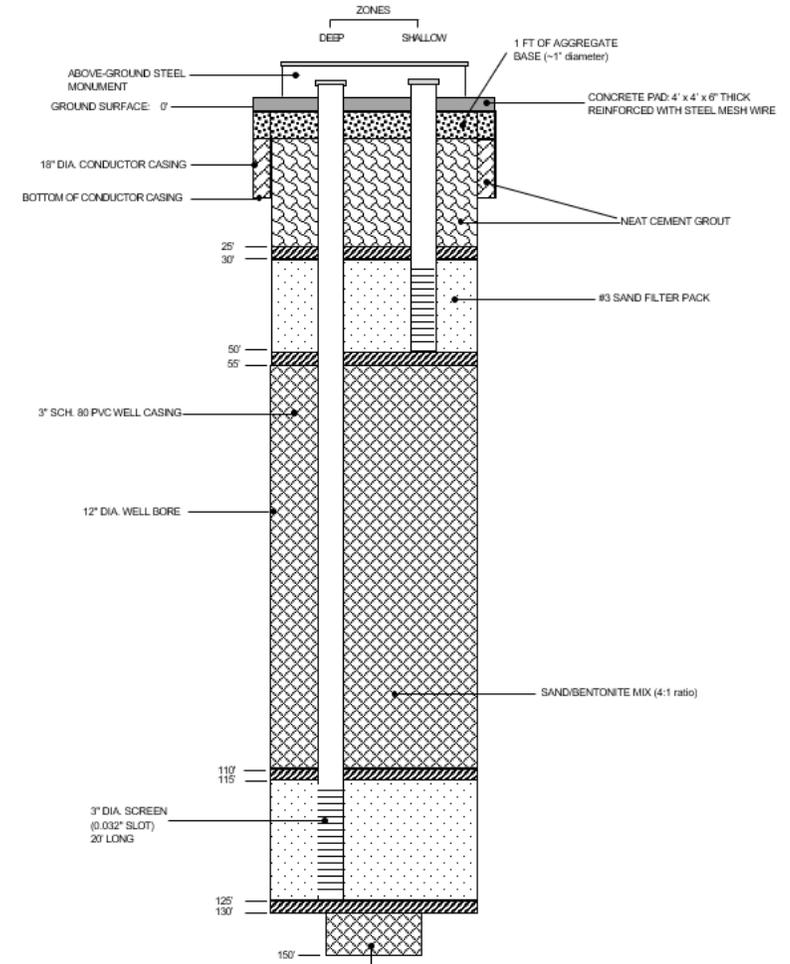
# Project 3: Central Delta Water Agency



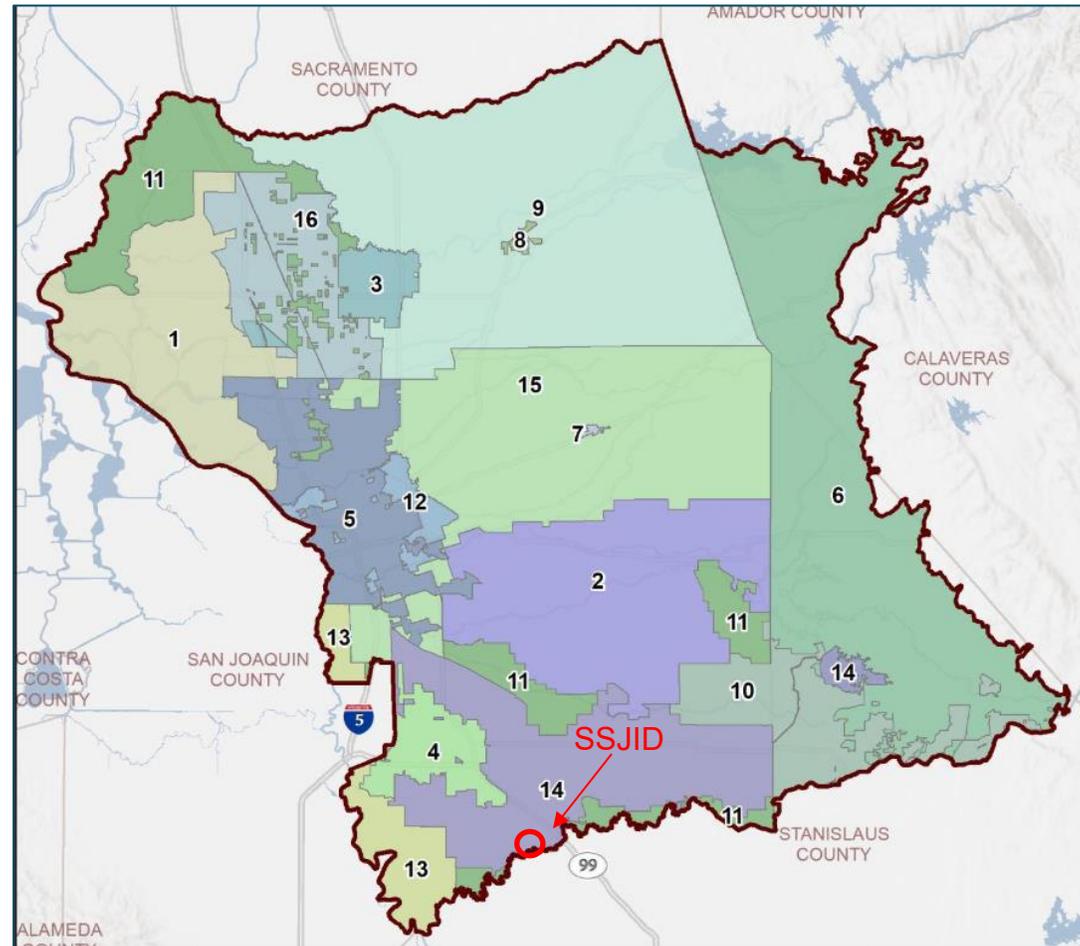
Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 3: Central Delta Water Agency

- Project:
  - Install two monitoring wells (nested) at 50 ft and 125 ft bgs. Include data loggers and telemetry system.
- Data Gaps:
  - Groundwater Levels Near Streams (White Slough and Bear Creek)
  - Groundwater Dependent Ecosystems
  - Groundwater Quality in Multiple Aquifer Zones
  - Increased spatial distribution, comprehensive well construction data, monitoring frequency



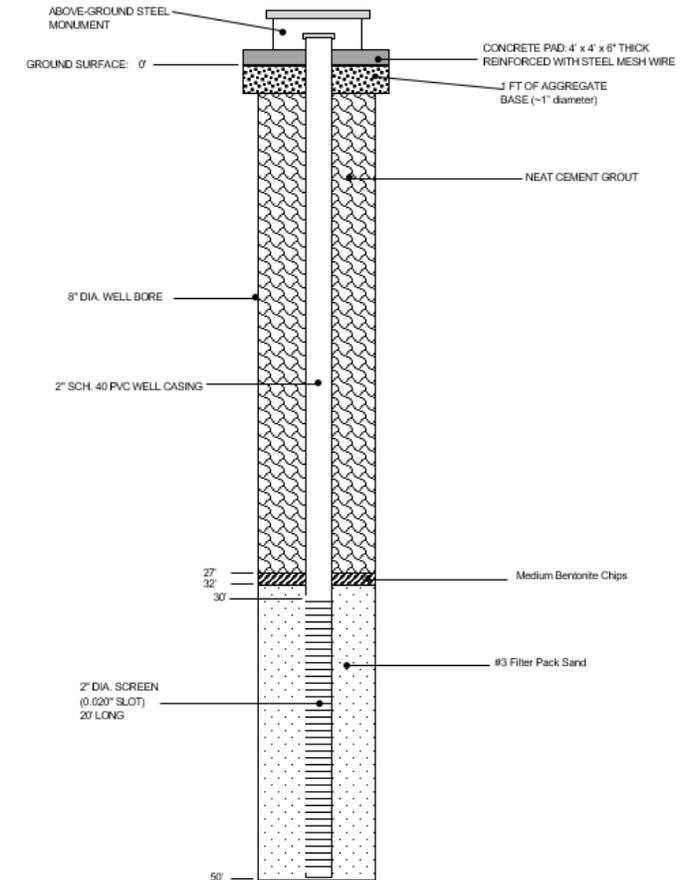
# Project 4: South San Joaquin Irrigation District



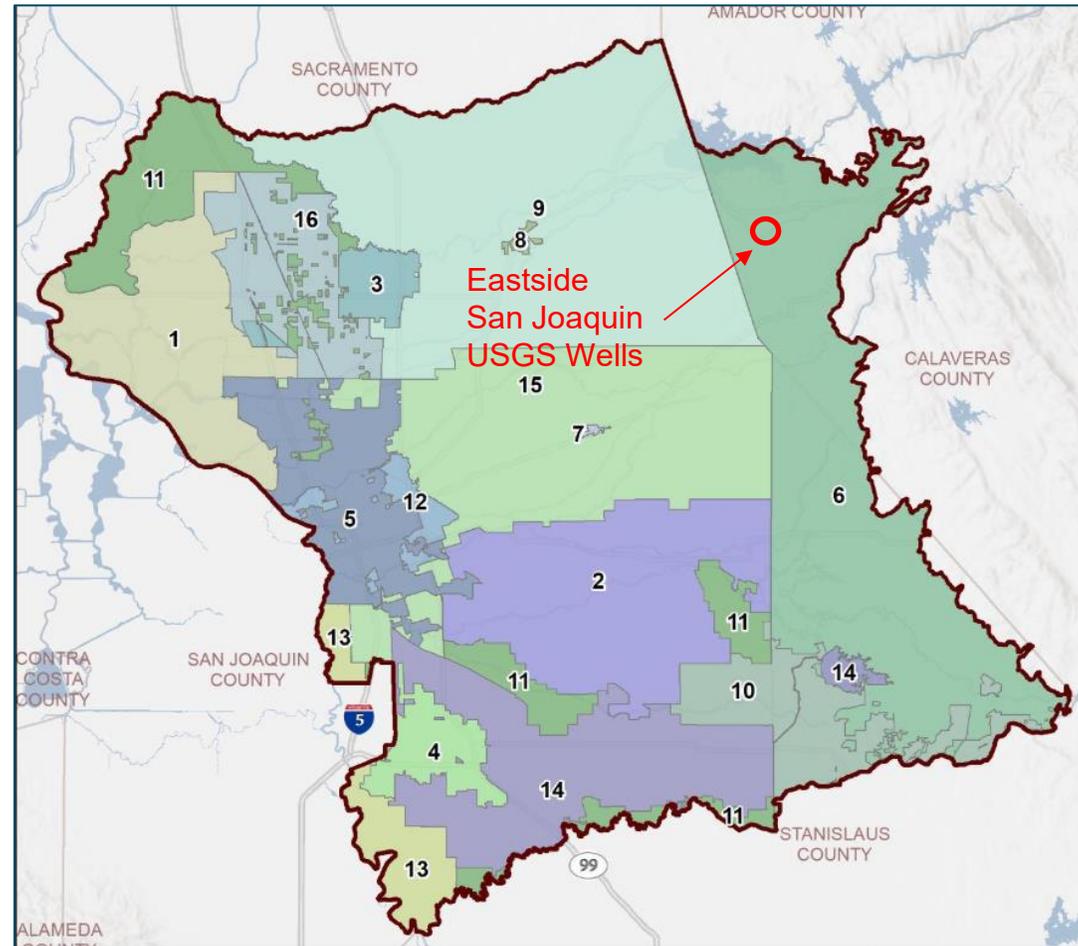
Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 4: South San Joaquin Irrigation District

- Project:
  - Install a single shallow monitoring well at 50 ft bgs. Install data logger and telemetry system.
- Data Gaps:
  - General Groundwater Levels
  - Groundwater Levels Near Streams (Stanislaus River)
  - Groundwater Quality Shallow Zone
  - Groundwater Levels near Subbasin Boundaries
  - Increased spatial distribution, comprehensive well construction data, monitoring frequency



# Project 5: Eastside San Joaquin GSA USGS Wells

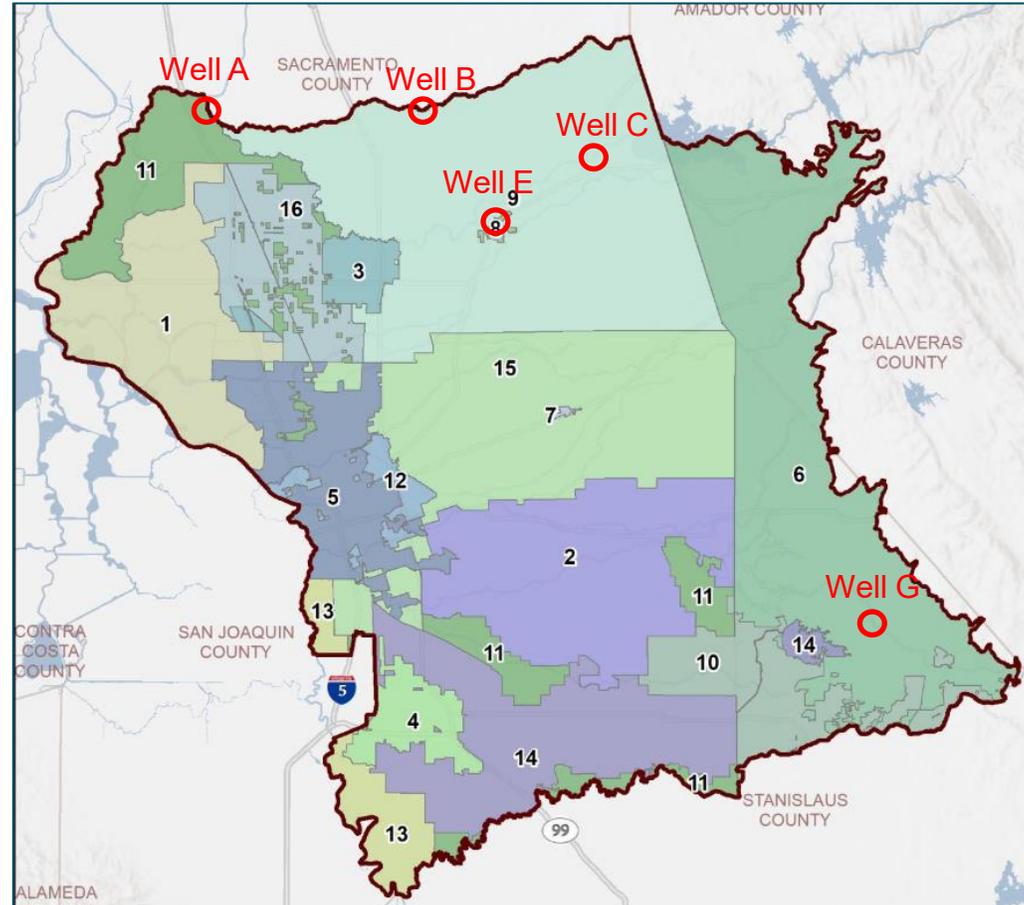


Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 5: Eastside San Joaquin GSA USGS Wells

- Project:
  - Install data loggers in three existing USGS wells for water level monitoring
- Data Gaps:
  - General Groundwater Levels
  - Increased spatial distribution, monitoring frequency

# Project 6: Instrumentation - GMIP 2022 Wells: A, B, C, E and G



Source: ESJGWA 2024 Groundwater Sustainability Plan

# Project 6: Instrumentation - GMIP Wells

- Project:
  - Install data loggers in five wells for water level monitoring. Wells installed in 2022 as part of GMIP.
- Data Gaps:
  - General Groundwater Levels
  - ISW/GDE
  - Groundwater Levels Near Streams (Mokelumne, Calaveras, Little John's Creek)
  - Increased spatial distribution, monitoring frequency

# Estimated Project Budget Summary

Project #	GSA	Project Specifics	Project Cost (including instrumentation)
<b>Monitoring Implementation \$1,500,000</b>			
1	NSJ	3 Wells (Nested): 1,000', 500', 50'	\$900,000
2	SEWD	1 Well: 50'	\$70,000
3	CDWA	2 Wells (Nested): 125', 50'	\$280,000
4	In Development		\$250,000
<b>Instumentation Implementation \$350,000</b>			
5	ESSJ	Data Logger Installs in Nested Well: 3 Wells at 125', 275', 375'	\$350,000
6	SJC, NSJWCD, ESSJ	Data Logger installs in multipls GSAs at Wells A, B, C, D, and E, installed in 2022	
<b>Monitoring Network Evaluation \$50,000</b>			
Monitoring Network Evaluation	--	Completed	\$50,000
<b>Data Management/Project Management \$150,000</b>			
Data management System/ Project Management	All	Data Acquisition and Integration, Management	\$150,000
<b>Total</b>			<b>\$2,050,000</b>

Questions?

