



# **BEDFORD COLDWATER**

## **Groundwater Sustainability Authority**

**Board Members:**  
Paul Rodriguez, TVWD  
Jacque Casillas, City of Corona  
Phil Williams, EVMWD

### **MEETING SUMMARY**

#### **Public Meeting to Review the Bedford Coldwater Basin Draft Groundwater Sustainability Plan (GSP)**

Bedford Coldwater Groundwater Sustainability Authority

6:00 PM, July 15, 2021

Online Zoom Meeting

#### Attendees

Rachel Gray, Eastern Municipal Water District  
Kristian Alfelro, City of Corona Department of Water and Power  
Sonny Gowan, ECS/Glen Ivy  
Jim St. Martin, Chandler's Sand and Gravel  
Mike Weil, California Department of Water Resources  
Brent Miles, Glen Ivy Hot Springs  
Phil Williams, Elsinore Valley Municipal Water District  
Margie Armstrong, Elsinore Valley Municipal Water District  
Ganesh Krishnamurthy, Elsinore Valley Municipal Water District  
Parag Kalaria, Elsinore Valley Municipal Water District  
Paul Rodriguez, Temescal Valley Water District  
Melissa Estrada-Maravilla, City of Corona  
Jesus Gastelum, Elsinore Valley Municipal Water District  
Sodavy Ou, West Yost Associates  
Jerry Sincich, Temescal Valley Municipal Advisory Council (MAC)  
Craig Deleo, Temescal Driving Range  
Eric Werner, Werner Corporation  
Tom Moody, City of Corona  
Jeff Pape, Temescal Valley Water District  
Chad Taylor, Todd Groundwater  
Maureen Reilly, Todd Groundwater  
Terese Quintanar, Elsinore Valley Municipal Water District  
Victor Harris, H & H Water Resources  
Kelly Shugart, Stantec

#### Agenda

1. Groundwater Sustainability Plan (GSP) Background
2. Introduction to the Bedford Coldwater Basin
3. SGMA Requirements
4. Recommended Actions and Projects
5. Schedule and Timeline
6. Questions, Comments, and Open Discussion

The second Stakeholders Meeting of the Bedford-Coldwater Groundwater Sustainability Authority was held via teleconference. Participants joined by accessing Zoom web meeting. The meeting began at 6:00 p.m. and was recorded.

Mr. Victor Harris made introductions of those attending and explained methods for participants to indicate the desire to speak or ask questions. Mr. Harris explained that the purpose of the meeting was to present a summary of the recently completed Bedford Coldwater Groundwater Sustainability Plan (GSP), and invite questions or comments from basin stakeholders. He presented and explained a PowerPoint presentation and welcomed questions and comments at the completion of the presentation. The PowerPoint is attached to this summary for reference.

After the PowerPoint presentation, the following questions were posed by stakeholders:

**Stakeholder Question:** Are there any new regulations that would prohibit private well owners from replacing or installing new wells?

**Response:** The BCGSA and GSP has not introduced new regulations regarding well installations and will adopt the Riverside County well guidance. Well regulations can be found on the Riverside County website.

**Stakeholder Question:** Are you willing to discuss the GSP with local citizens groups in the Temescal Valley?

**Response:** Yes.

Because of the relatively few questions or concerns voiced by attendees, Mr. Harris invited additional comments or questions during the public review period (ending September 6, 2021) via email or telephone contact (contact information was provided in the presentation). He also requested responses to a questionnaire distributed immediately after the meeting via email to invitees.

The meeting ended at approximately 7:00 pm.

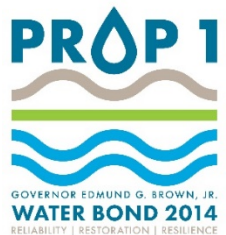


**BEDFORD COLDWATER**  
Groundwater Sustainability Authority

# Bedford Coldwater Subbasin Groundwater Sustainability Plan

Public Meeting - Thursday, July 15, 2021

Presenter: Victor Harris, PG, CEG, CHG  
BCGSA Administrator



# Meeting Information

## ▶ For Online Participation:

- ▶ Go to: [www.zoom.us](http://www.zoom.us)
- ▶ Select Join a Meeting
- ▶ Enter Meeting ID: 884 5768 5551
- ▶ Meeting Password: 92530

## ▶ For Call-in Only:

- ▶ Call: (669) 900-9128
- ▶ Enter Meeting ID: 884 5768 5551
- ▶ Meeting Password: 92530

# Agenda

1. Groundwater Sustainability Plan (GSP) Background
2. Introduction to the Bedford Coldwater Basin
3. SGMA Requirements
4. Recommended Actions and Projects
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# Acknowledgements

- ▶ Bedford-Coldwater Groundwater Sustainability Authority (BCGSA) Board and Staff
- ▶ California Department of Water Resources (DWR) Funding



Jacque Casillas,  
Director



Paul Rodriguez,  
Chairman



Phil Williams,  
Vice-Chairman



**BEDFORD  
COLDWATER**  
Groundwater  
Sustainability Authority

# First Stakeholder Meeting Questions and Input

- ▶ November 7, 2019, Temescal Valley Water District
  - ▶ Introduction to Sustainable Groundwater Management Act (SGMA), BGSA, and GSP development

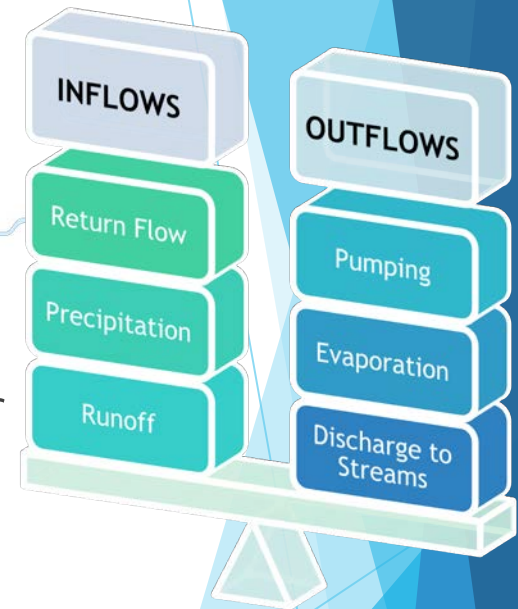


## Issues Discussed:

- ▶ Protection of water quality
- ▶ Future projects
- ▶ New regulations
- ▶ Fees
- ▶ How to stay engaged

# SGMA Background

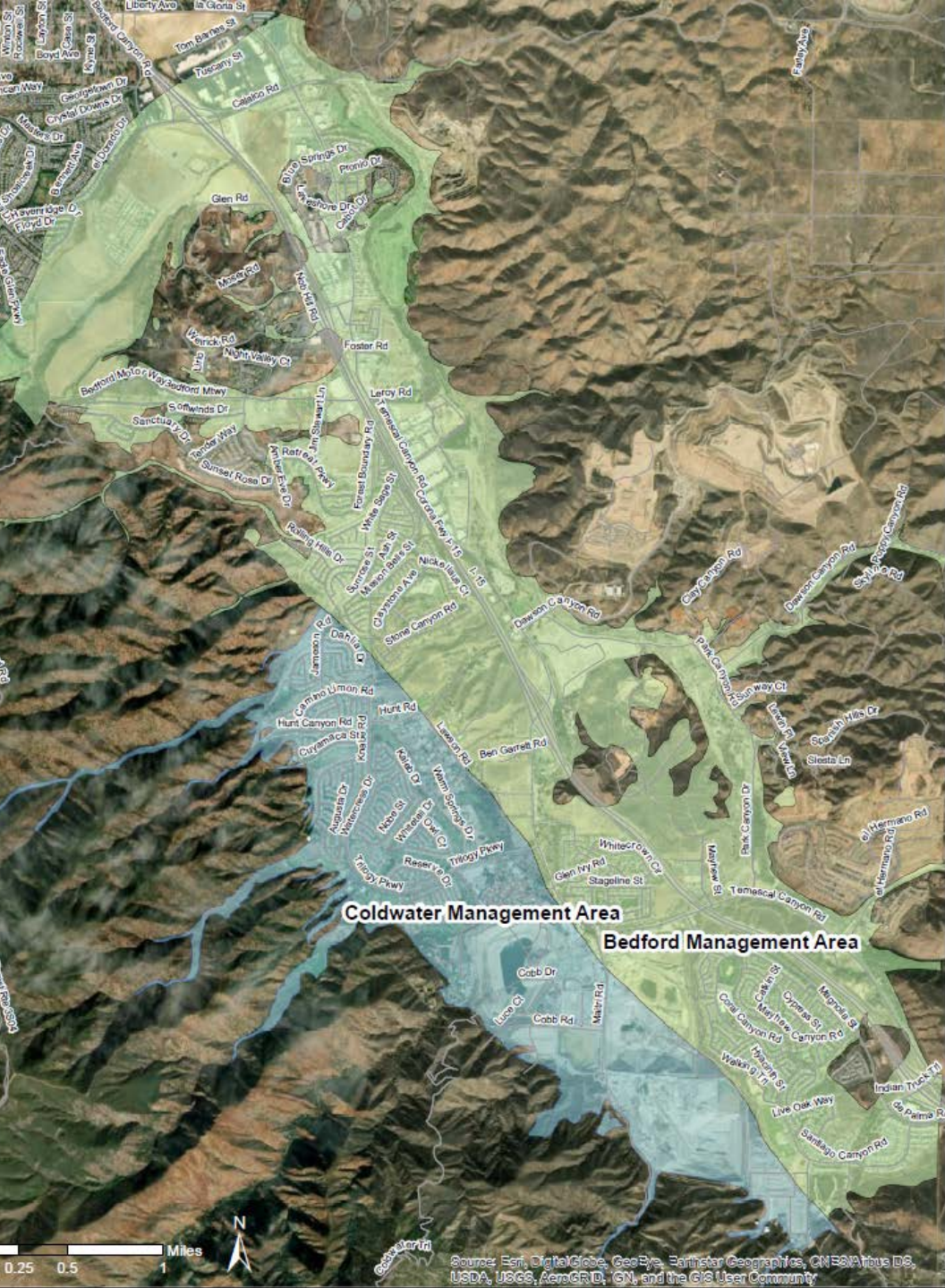
- ▶ Sustainable Groundwater Management Act (SGMA) was passed by the California legislature in 2014
  - ▶ Stop overdraft and achieve sustainable yield
- ▶ Requires the formation of Groundwater Sustainability Agencies (GSAs) overlying the groundwater basin
- ▶ GSAs are responsible for preparing Groundwater Sustainability Plans (GSPs)



*"...groundwater management in California is best accomplished locally."*

- Governor Jerry Brown, September 2014

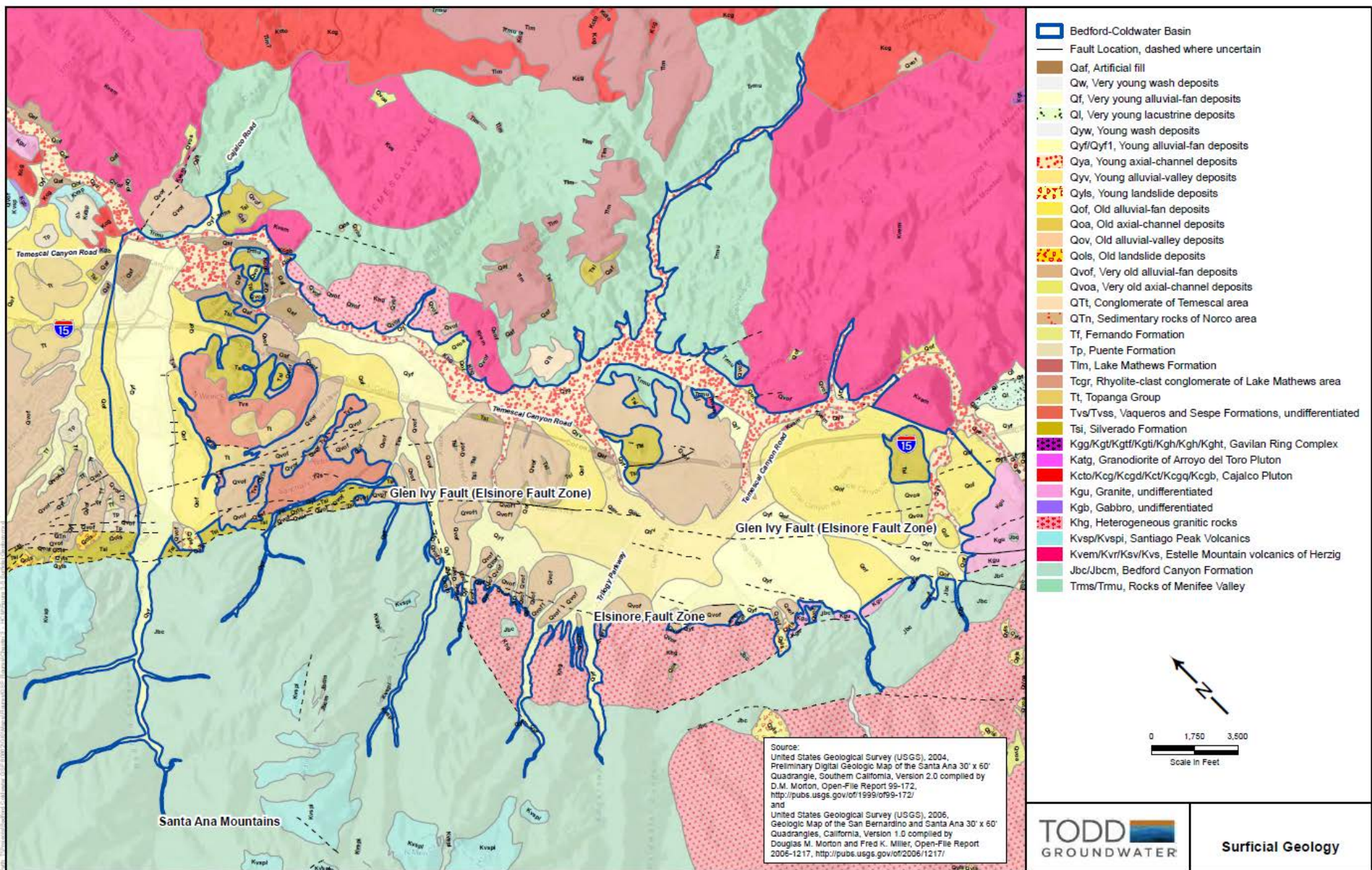


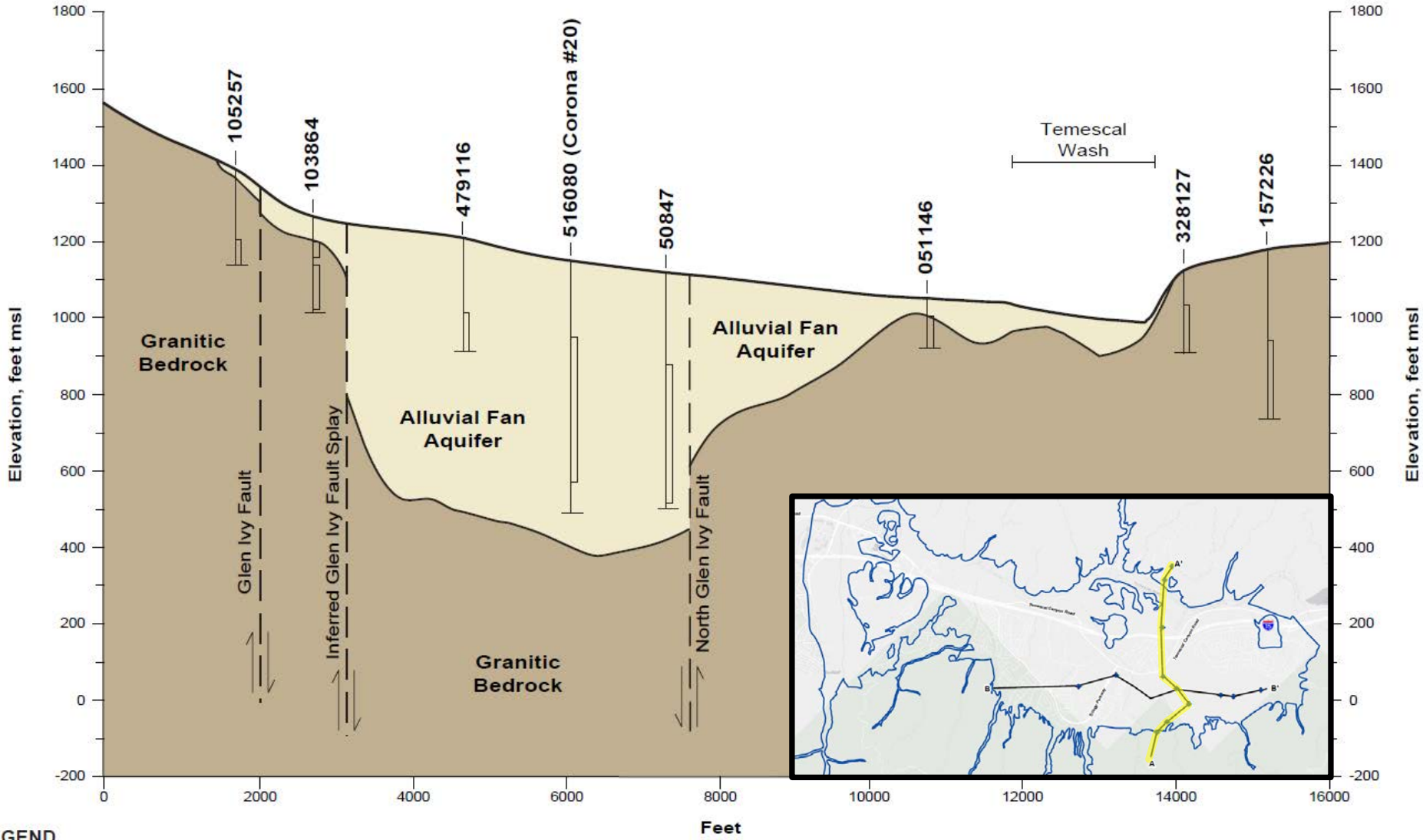


# Bedford-Coldwater Subbasin

- Coldwater Management Area
- Bedford Management Area

# Geology of the Basin





**LEGEND**

50847 ← DWR Well Number

← Well Screen

← Bottom of Well

Alluvial Fan Aquifer

Granitic Bedrock

5X Vertical Exaggeration

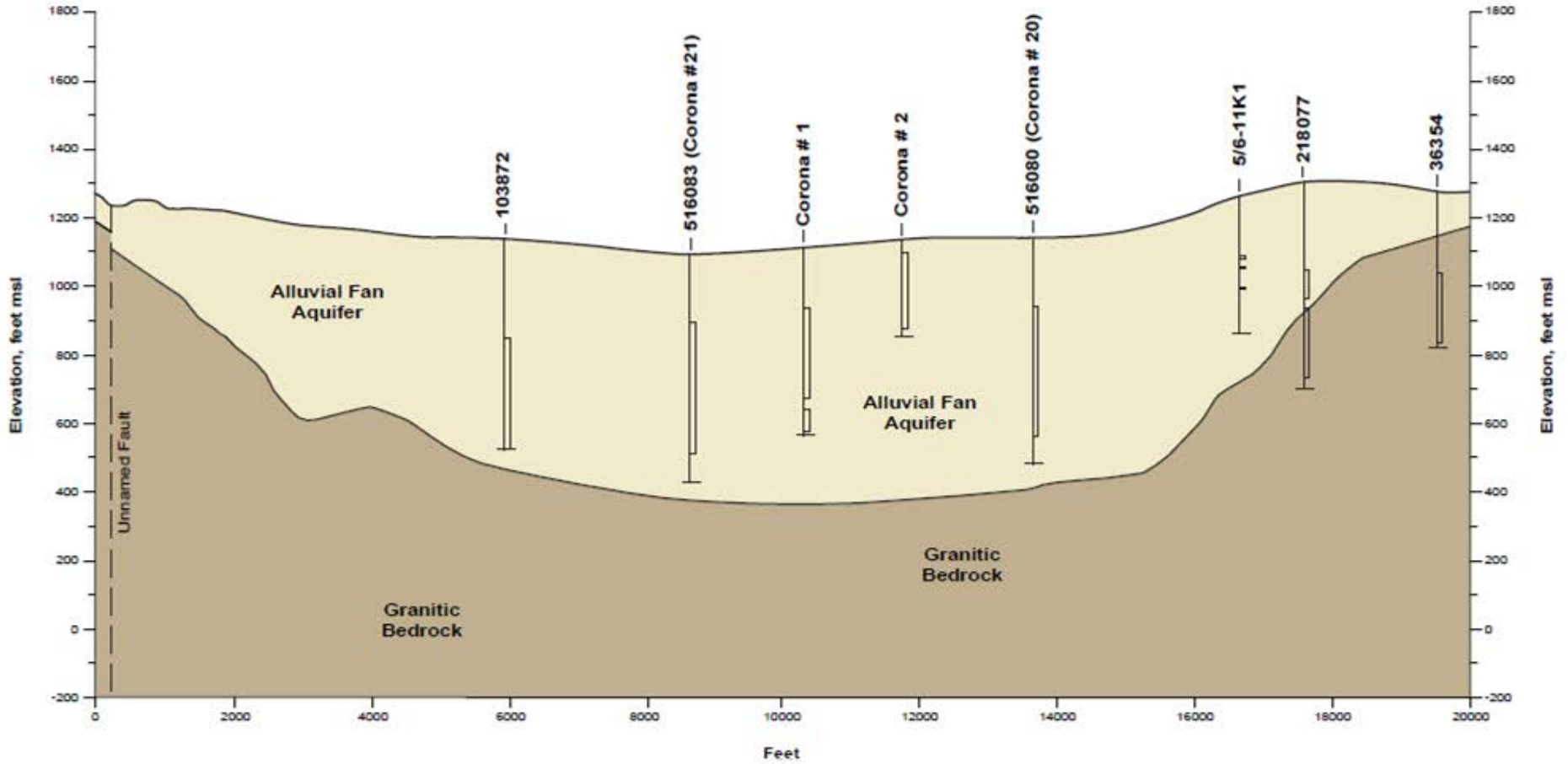


**Cross Section A to A'**

B  
North

B'  
South

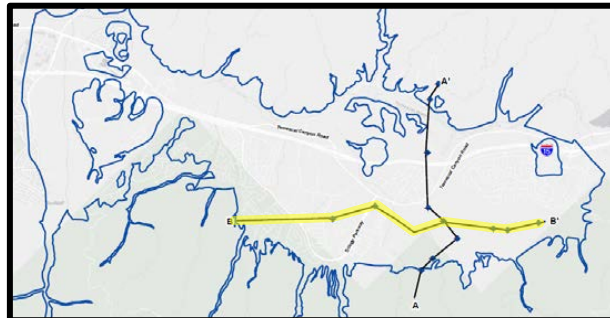
Coldwater Area



LEGEND

- ← DWR Well Number
- ← Well Screen
- ← Bottom of Well

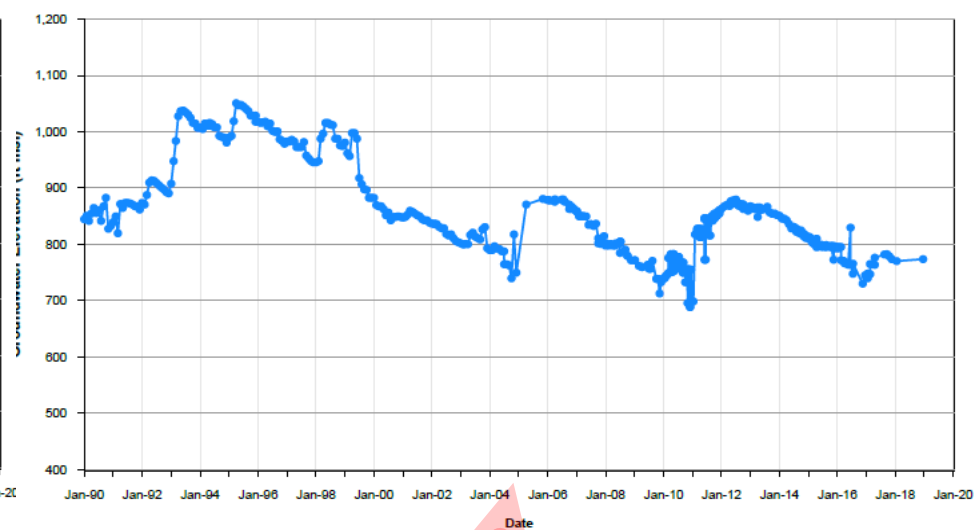
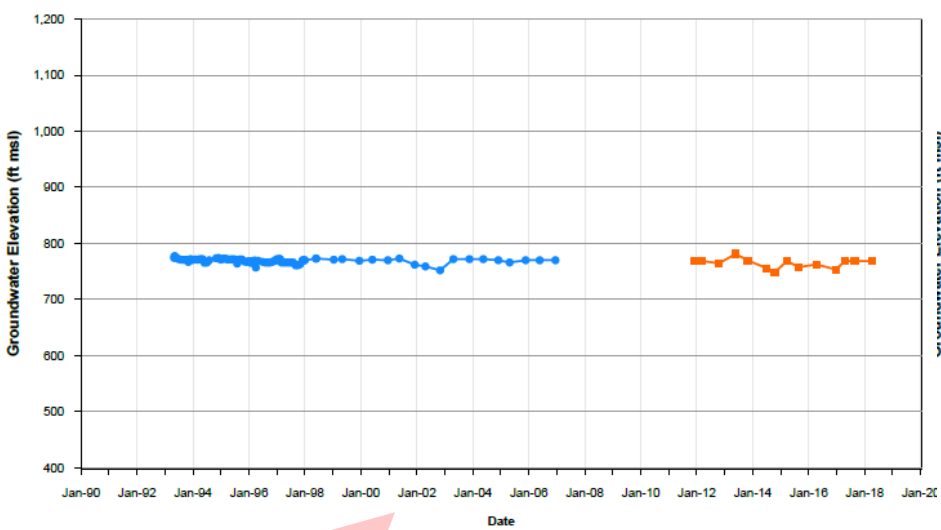
- Alluvial Fan Aquifer
- Granitic Bedrock



February 2020

TODD  
GROUNDWATER

Cross Section  
B to B'



# Groundwater Level History



# SGMA Terminology

- ▶ **Sustainability Criteria** = Quantitative ways the GSA can define, measure, and track sustainable management
  - ▶ **Undesirable results** = Significant and unreasonable conditions for any of the six sustainability indicators
  - ▶ **Minimum Threshold (MT)** = Numeric value used to define undesirable results for each sustainability indicator
  - ▶ **Management Action** = Initiated when MTs are approached or exceeded



Lowering  
GW Levels



Reduction  
of Storage



Seawater  
Intrusion



Degraded  
Quality

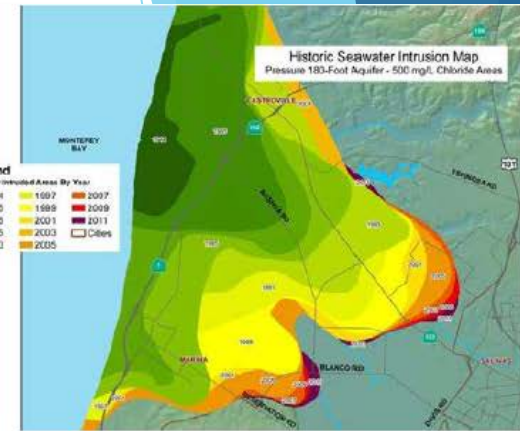
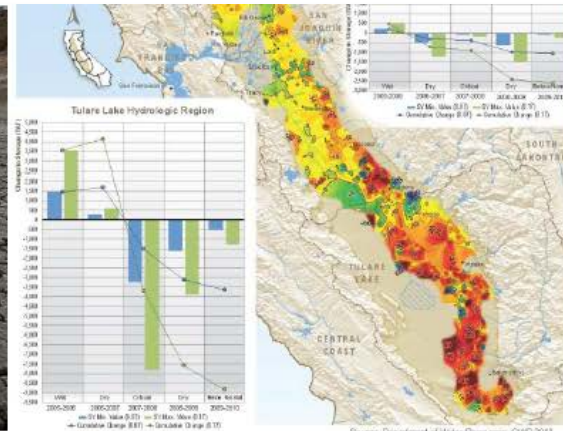


Land  
Subsidence



Surface Water  
Depletion

# Six Undesirable Results



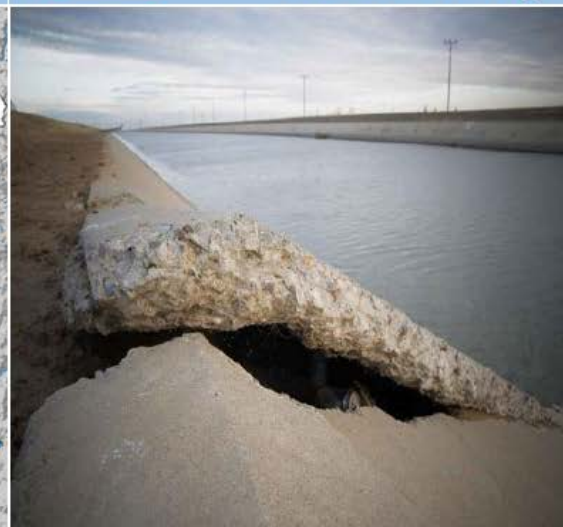
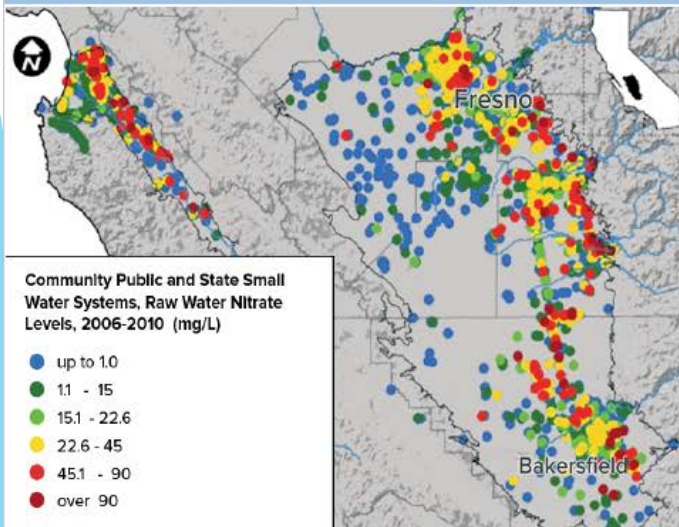
**Lowering of GW Levels**



**Reduction of GW Storage**



**Seawater Intrusion**



**Water Quality Degradation**



**Land Subsidence**



**Depletion of Interconnected Streams**

# Consequences of Undesirable Results

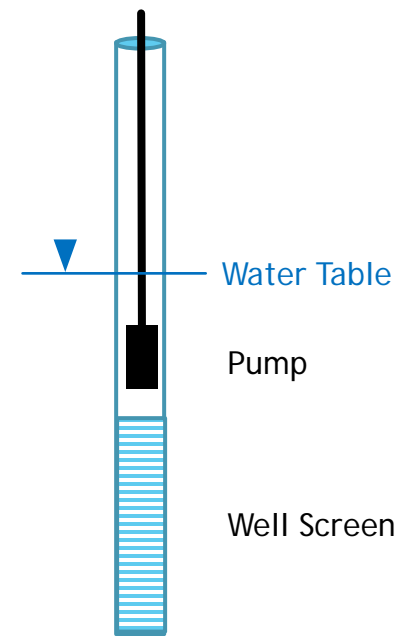
- ▶ Increased pumping costs
- ▶ Entrained air in discharge/accelerated corrosion
- ▶ Loss of production
- ▶ Loss of groundwater-dependent habitat
- ▶ Subsidence
- ▶ Loss of groundwater in storage
- ▶ Loss of emergency supply



# Sustainability Goal for the Bedford-Coldwater Basin

- ▶ Provide a long-term, reliable and efficient groundwater supply for municipal, industrial, and other uses;
- ▶ Provide reliable storage for water supply resilience during droughts and shortages;
- ▶ Protect groundwater quality;
- ▶ Support beneficial uses of interconnected surface waters; and
- ▶ Support integrated and cooperative water resource management.

# Minimum Thresholds for Sustainability



Sustainability Criteria	Minimum Threshold
Lowering of GW Levels	Maintain water levels at or above current pump intakes or screens (2 exceedances occur in 2 consecutive years in >2/3 or more wells in each management area)
Reduction of GW in Storage	Based on water levels
Land Subsidence	0.2 feet in any 5-year period
Degradation of GW Quality	5-year average TDS<1,000 mg/l, Nitrates<10 mg/l
Depletion of Interconnected Streams	Depth to water in wells near groundwater-supported vegetation is more than 35 ft for more than 1 year

# Monitoring Network



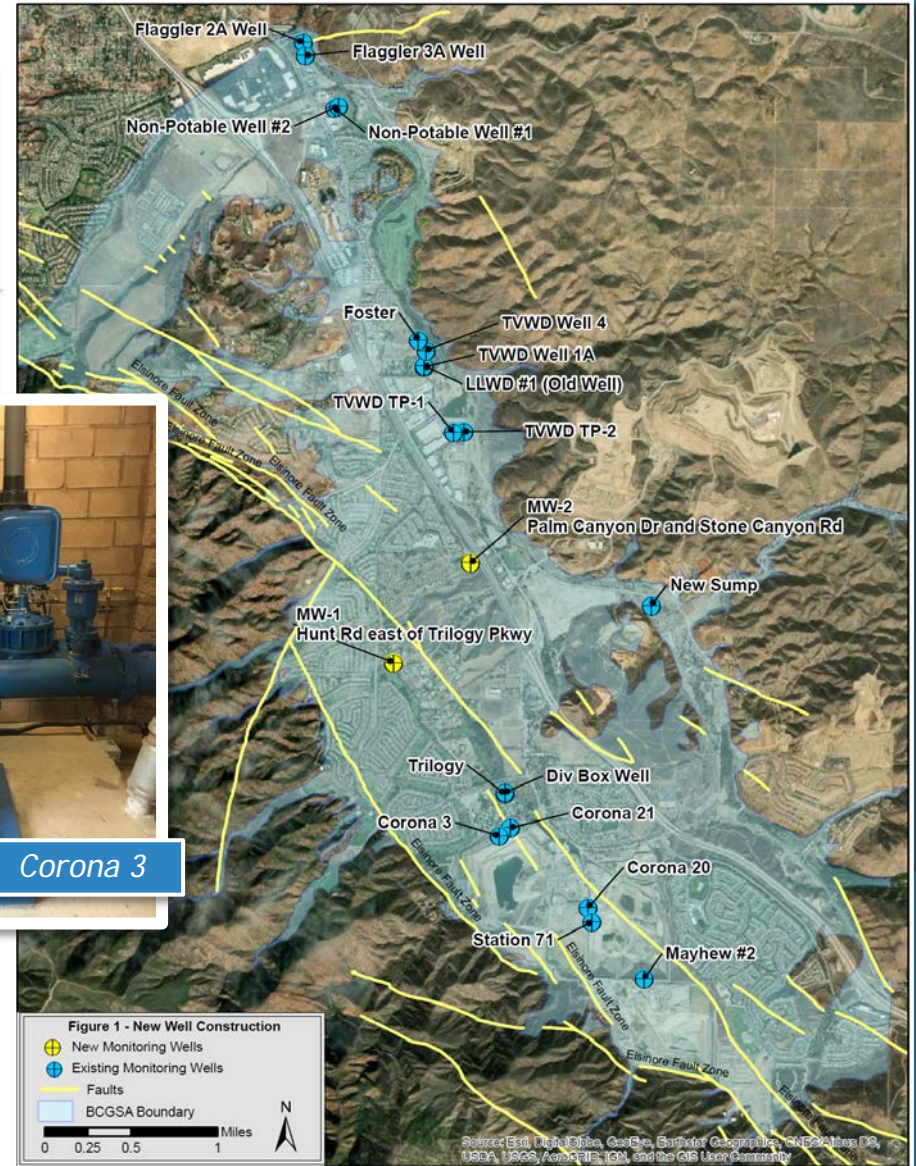
Flagler 2A



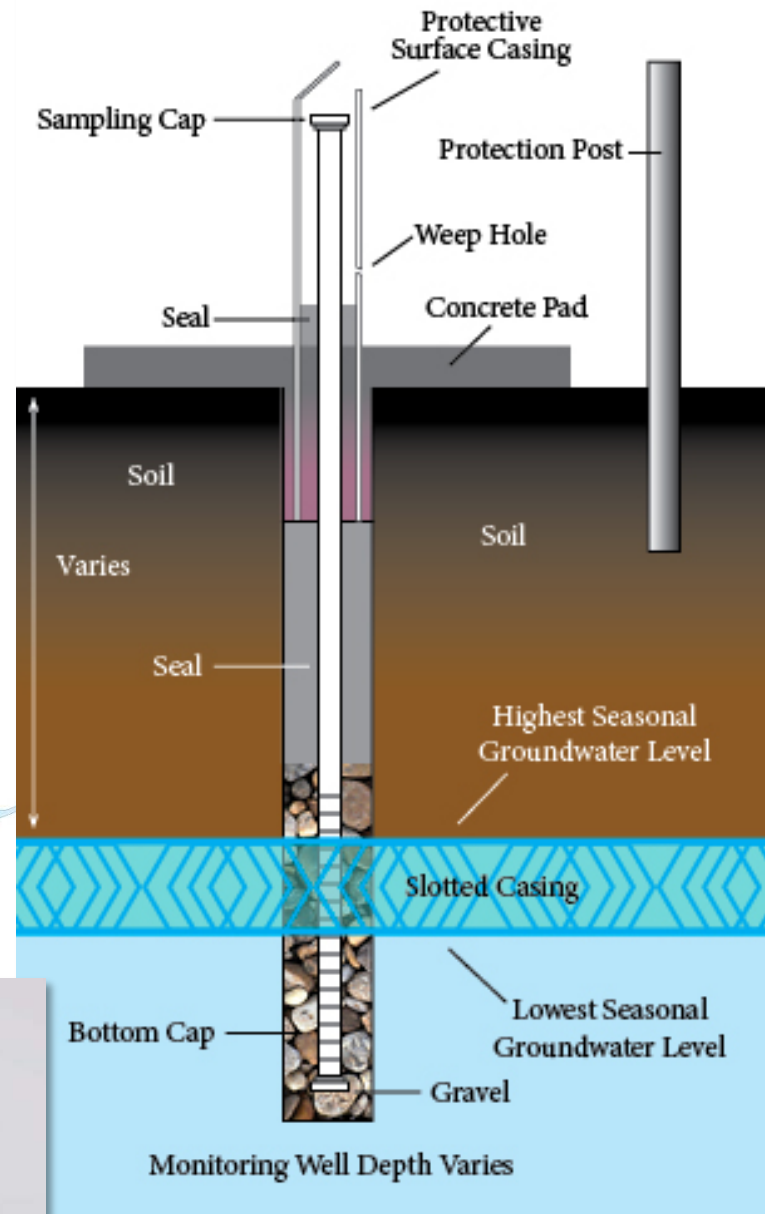
New Sump



Corona 3



# Monitoring Well Construction and Transducer Installation



# Management Action 1

- ▶ Provide for Collection, Compilation, and Storage of Information Required for Annual Reports and Submit Annual Reports



## Contents

- ✓ Executive Summary
- ✓ Groundwater Contour Maps
- ✓ Hydrographs
- ✓ Extraction Amounts
- ✓ Amount of Imported Supply
- ✓ Change in Groundwater in Storage
- ✓ Progress in Plan Implementation

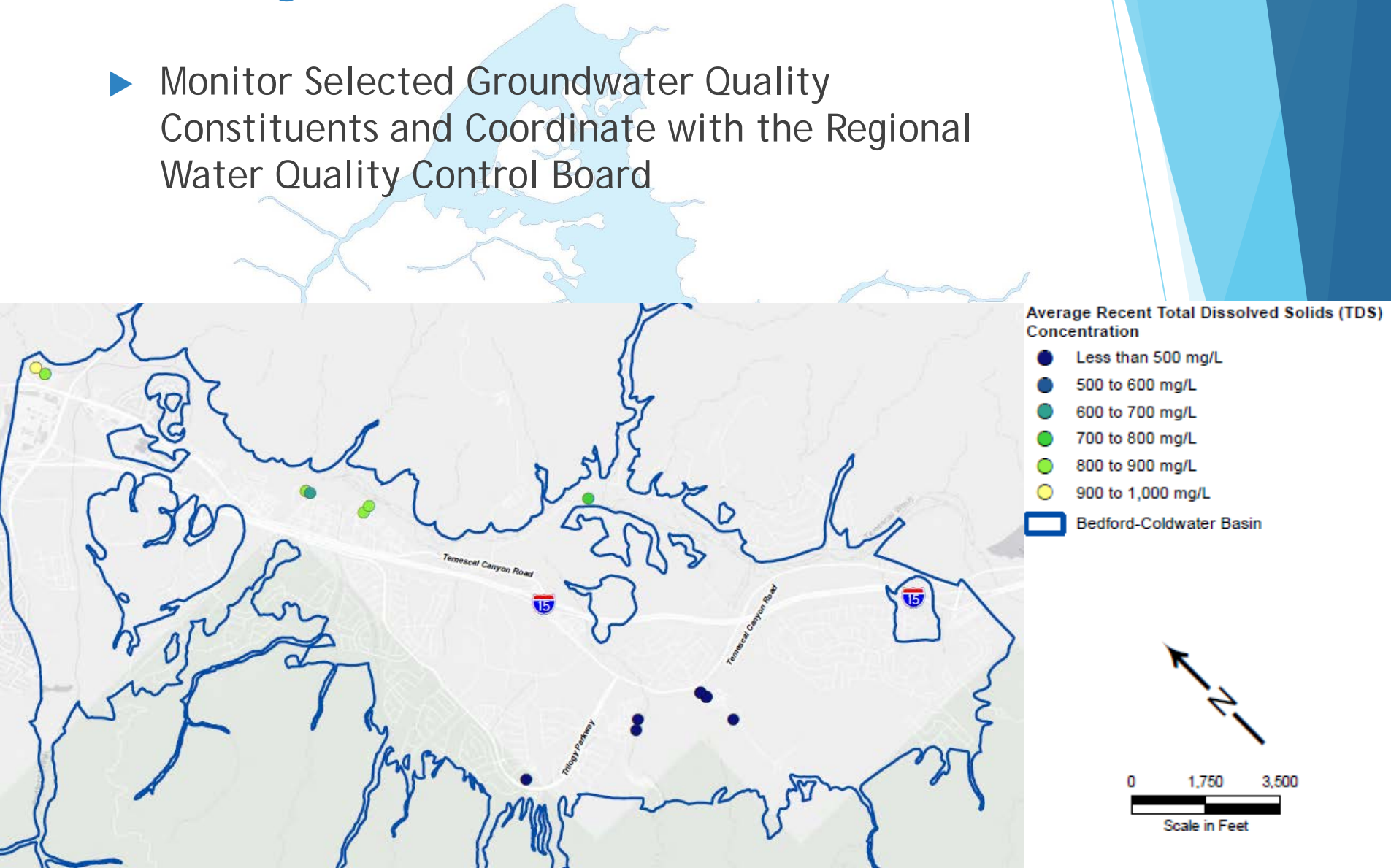
# Management Action 2

- ▶ Routinely Record Groundwater Levels and Take Action if Necessary



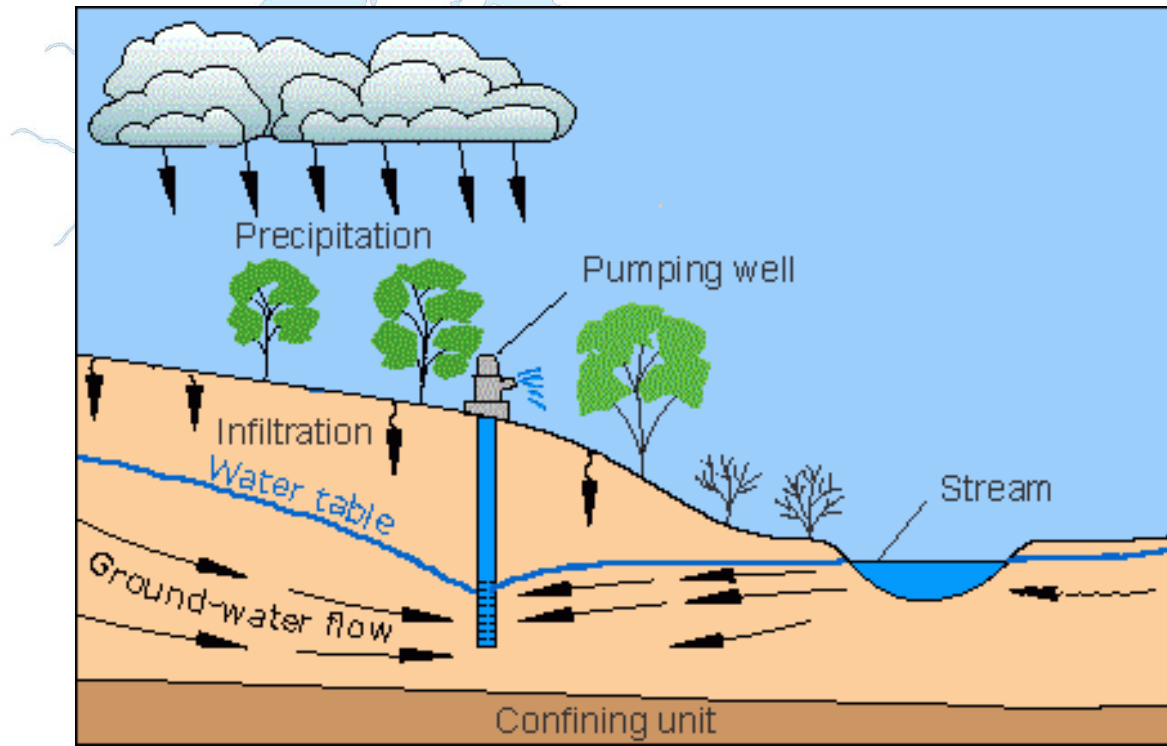
# Management Action 3

- ▶ Monitor Selected Groundwater Quality Constituents and Coordinate with the Regional Water Quality Control Board



# Management Action 4

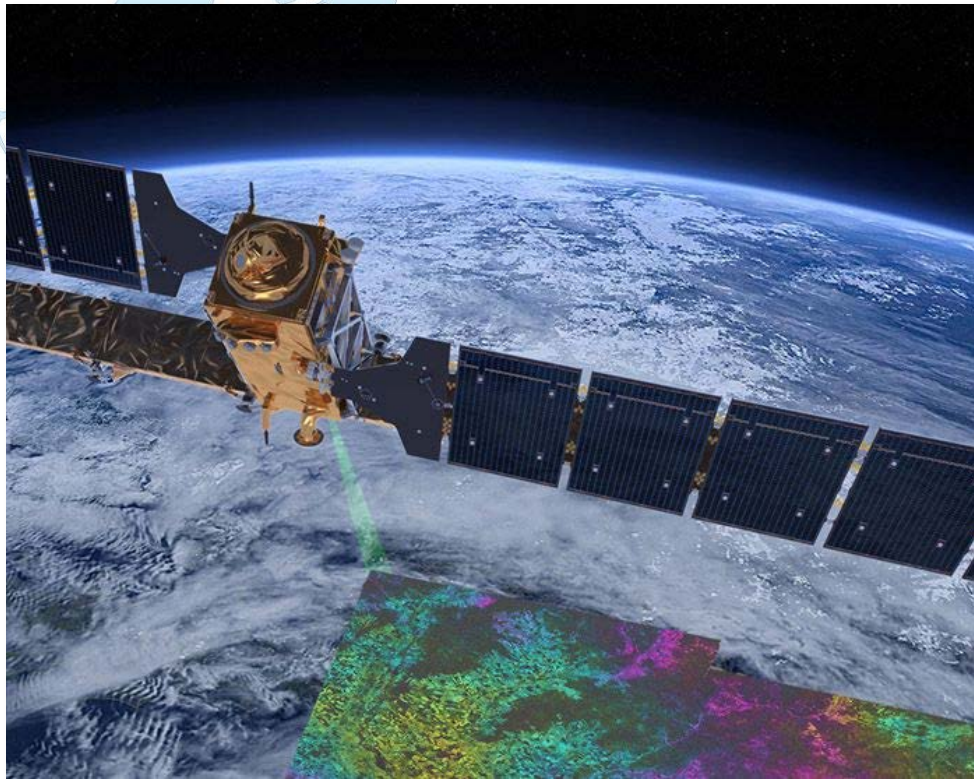
- ▶ Track Trends in Groundwater Levels Near Temescal Wash and Take Action as Necessary





# Management Action 5

- ▶ Review InSAR\* Data on the DWR Dataviewer During 5-Year Updates



\* Interferometric Synthetic Aperture Radar

# Project 1

- ▶ Investigate Groundwater/Surface Water Interaction at Temescal Wash



# Project 2

- ▶ Initiate a Survey of Active Private Wells



# Project 3

- ▶ Evaluation of Interaction of Aggregate Pits and Groundwater Flow



# Benefits of the GSP

- ▶ Ensures long-term sustainability of the Basin
- ▶ Evaluates and prepares for climate change
- ▶ Protects groundwater-dependent ecosystems
- ▶ Protects all groundwater users in the Basin
- ▶ Provides for transparent and open Basin management
- ▶ Provides for continuing stakeholder input



# GSP Implementation Schedule

	2022				2023				2024				2025				2026			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>Select GSP Administrator</b>	✓																			
<b>Action 1</b> – Provide for Collection, Compilation, and Storage of Information Required For Annual Reports and Submit Annual Reports	✓				✓				✓				✓				✓			
<b>Action 2</b> – Routinely Record Groundwater Levels and Take Action if Necessary																				→
<b>Action 3</b> – Monitor Selected Groundwater Quality Constituents and Coordinate with the Regional Water Quality Control Board																				→
<b>Action 4</b> – Track Trends in Groundwater Levels near Temescal Wash and Take Action as Necessary																				→
<b>Action 5</b> – Review InSAR data on the SGMA Dataviewer During Annual and 5-year Updates	✓				✓				✓				✓				✓			
<b>Project 1</b> – Investigate Groundwater/Surface Water Interaction at Temescal Wash		→																		
<b>Project 2</b> – Initiate a Survey of Private Wells			→																	
<b>Project 3</b> – Evaluation of the Effects of Aggregate Pits on Groundwater Flow and Quality				→																
<b>Prepare 5-Year Evaluation</b>																				✓

# Survey

Please submit your survey to

[victor@hhwaterresources.com](mailto:victor@hhwaterresources.com)

Meeting Date: July 15, 2021

Organization or Business Name: \_\_\_\_\_

Stakeholder Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Question:	Response:
1. Has this presentation increased your knowledge about the Groundwater Sustainability Plan (GSP)?	
2. Do you own or operate a water well in the vicinity of the basin? Do you plan to in the future?	
3. Is the timeline for GSP implementation clear?	
4. Do you have any concerns or suggestions about implementing the GSP in the Bedford-Coldwater Subbasin?	
5. Please note any other comments or questions regarding implementation of the GSP in the Bedford-Coldwater Subbasin or the GSP document itself. <i>(Reminder: written comments are due on the Draft GSP by September 6, 2021. Please email this survey and any additional comments to victor@hhwaterresources.com).</i>	

How helpful was this meeting in understanding development of the draft GSP for the Bedford-Coldwater Subbasin?

Please circle response:

1  
Not helpful

2

3  
Neutral

4

5  
Very helpful

Please provide suggestions for improvement of stakeholder outreach:



# Open Discussion

- ▶ How can you stay involved?
  - ▶ Visit our website: [www.BedfordColdwaterGSA.com](http://www.BedfordColdwaterGSA.com)
  - ▶ Attend BCGSA Board meetings
  - ▶ Provide current contact information for BCGSA updates
  - ▶ Contact Victor Harris at 626-840-3592 or: [victor@hhwaterresources.com](mailto:victor@hhwaterresources.com)

*Thank you for your interest and participation in  
the Bedford Coldwater Subbasin GSP!*