

YSGA BOARD OF DIRECTORS MEETING

June 19, 2023

Agenda

1. **Call to Order and Determination of Quorum**
2. Adding Items to the Posted Agenda
3. Public Forum
4. CONSIDERATION - Consent Items
5. Report of the Chair and Executive Officer
6. CLOSED SESSION - Conference with Legal Counsel
7. Groundwater Sustainability Plan Implementation Update
 1. Areas of Special Concern - Hungry Hollow Update
 2. Grant Funding Update
8. CONSIDERATION - Financial Items
9. NCWA Update on Water Legislation & Regulatory Issues
10. DWR Update
11. Member's Reports and Future Agenda Items
12. Next Meeting - September 18, 2023
13. Adjournment

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Consideration: Consent Items

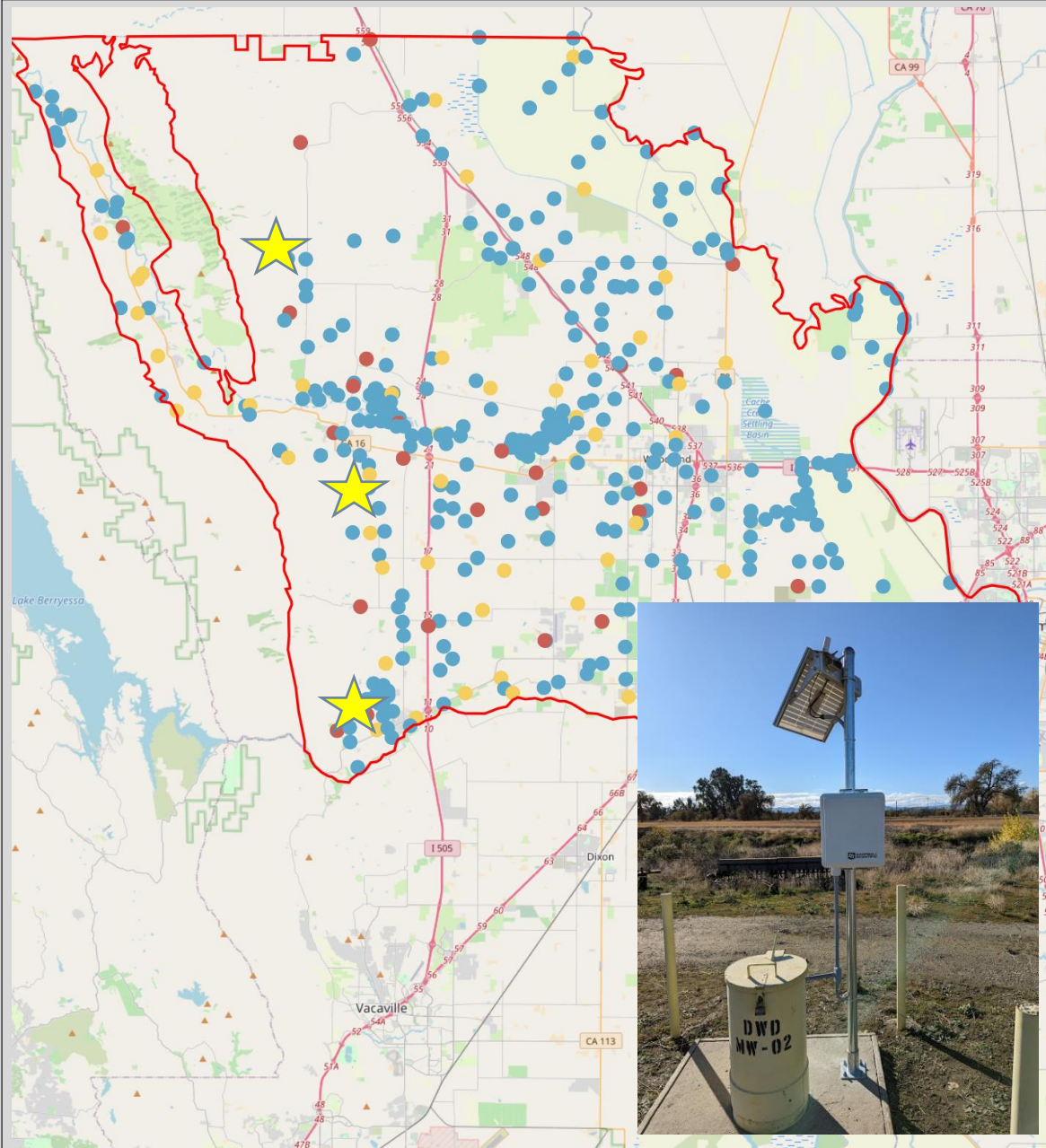
- a) Approve March 20, 2023 Board of Directors Meeting Minutes
- b) Receive Fiscal Year 22/23 Financial Statements: 3/15 - 6/13/2023
- c) Receive minutes of Executive Committee: 2/22 and 4/10/23
- d) Approve Payment of Bills in Approved Fiscal Year 2022/23 Budget
- e) Approve Recommended Auditor for FY 2021/22, 2022/23, and 2023/24 Audit

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DWR's Technical Support Services (TSS)

- 3 dedicated multi-completion monitoring wells to be drilled by DWR's TSS program
- Real-time monitoring to be installed
- Focused in areas of special concern and data gap areas
- Well depths approx. 1,000 feet
- Well 1 is drilled, and Well 2 is in progress

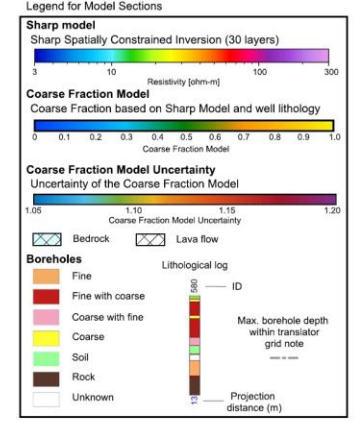
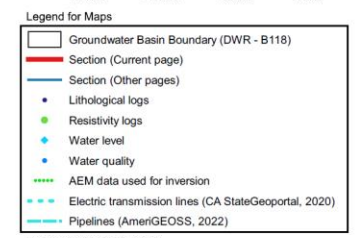
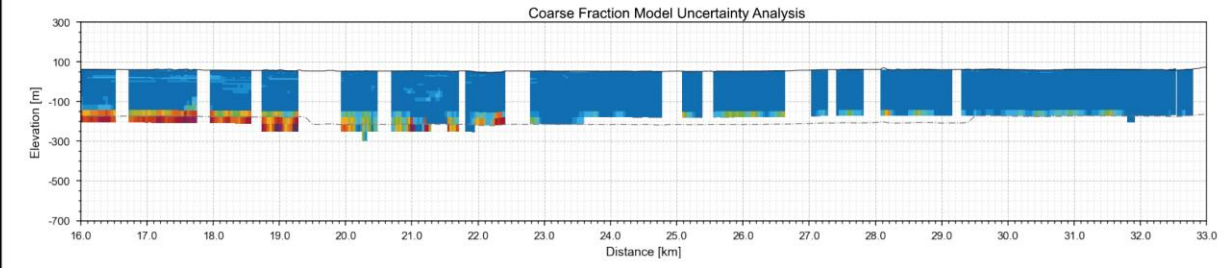
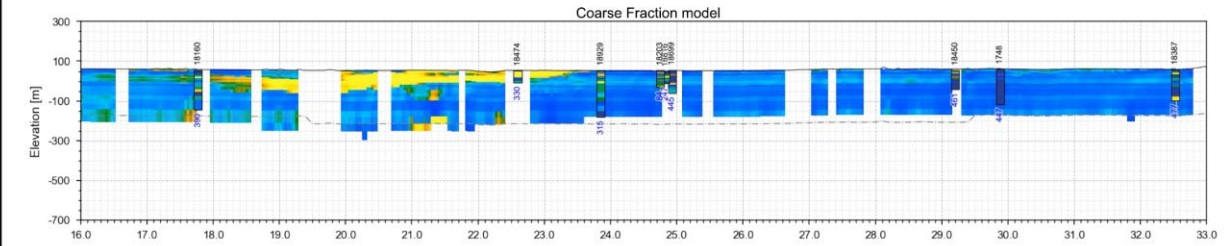
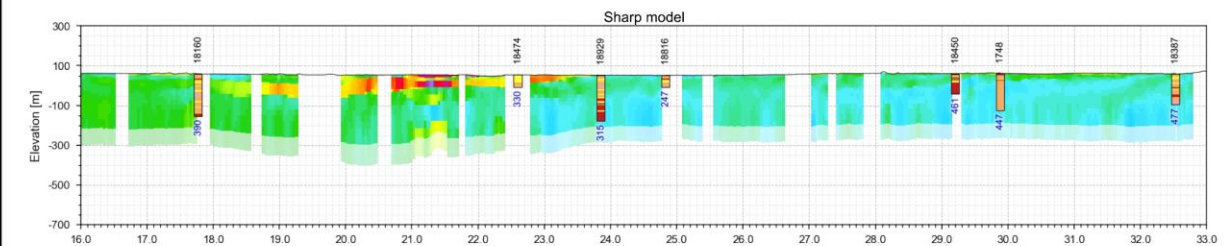
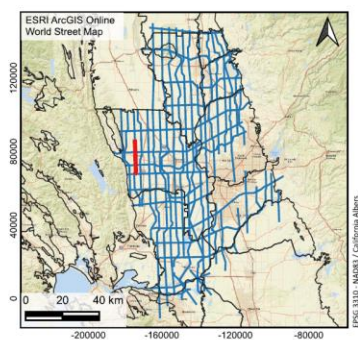
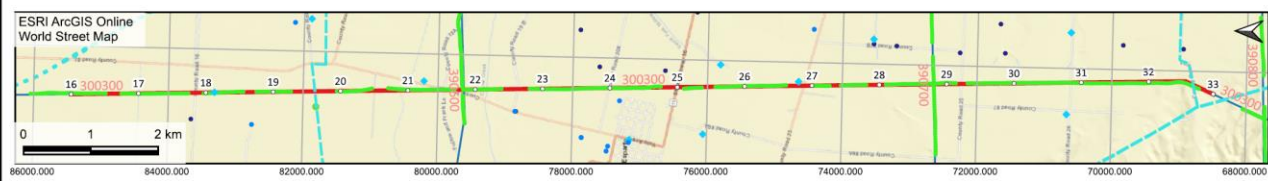


Farming for Our Future: Sharing Solutions to Climate Change from the Fields

With the need to address climate change, drought, and groundwater sustainability more crucial than ever, this campaign is built around a series of high-end videos that showcase water conservation, sustainable groundwater use, and climate mitigation practices and philosophies being undertaken by rural landowners in Yolo County. The approach is "farmer-to-farmer," with an emphasis on innovative and creative problem-solving and new ideas.

Collaborative Effort including:

- Center for Land Based Learning
- Yolo County Resource Conservation District (YCRCD)
- Good Humus Produce & the Hungry Hollow Watershed Stakeholders
- Community Alliance with Family Farmers (CAFF)
- Carbon Cycle Institute (CCI)
- Yolo Subbasin Groundwater Agency (YSGA)
- Yolo County Flood Control and Water Conservation District (YCFCWCD)
- Public Health Branch of the Yolo County Health & Human Services Agency
- Professor Neal Williams (UC Davis)



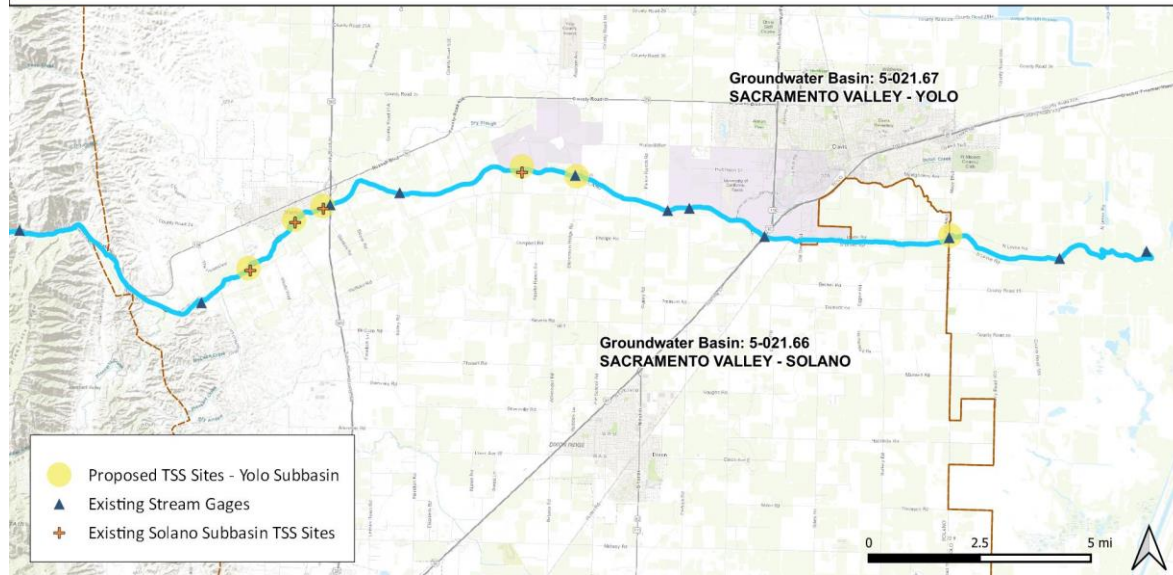
Data: 2023-05-10, Created by: MTDL, Checked by: FEC, Approved by: PATT

AEM DATA

Report and data now available at: data.cnra.ca.gov/dataset/aem



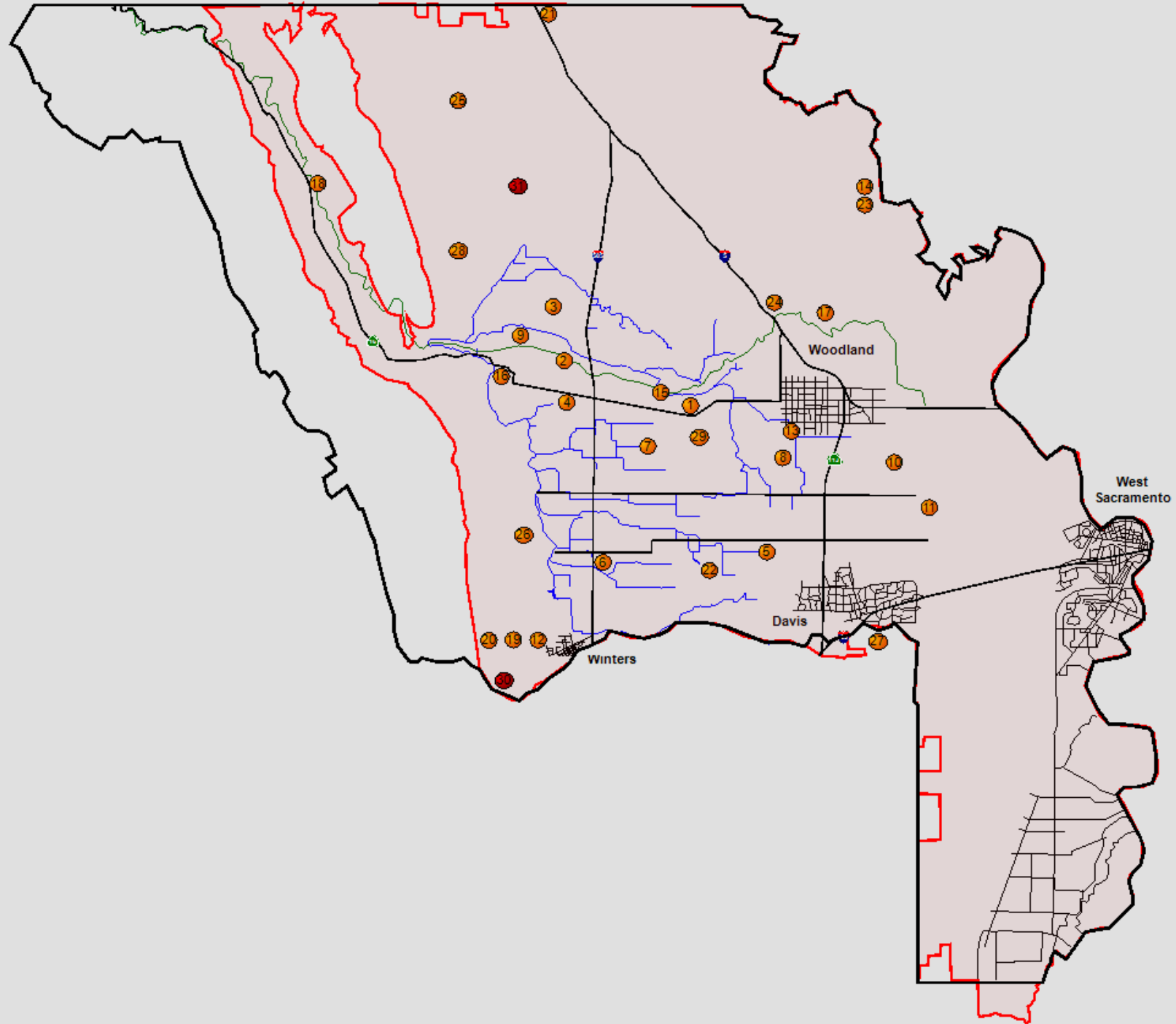
Putah Creek Groundwater-Surface Water Monitoring Wells Overview Map



PUTAH CREEK TSS REQUEST

Well Monitoring

Continuous







SCADA Links

Comparison Trends

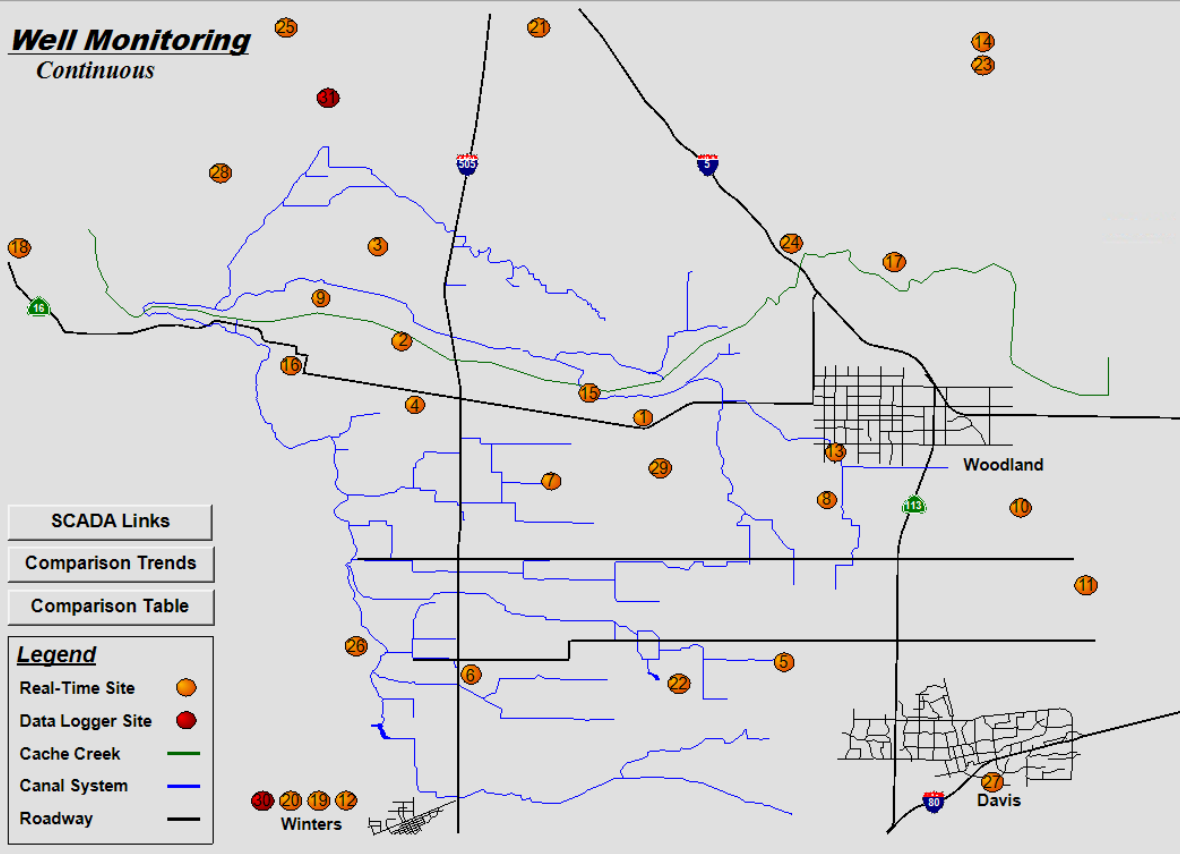
Comparison Table

Legend

- Real-Time Site 
- Data Logger Site 
- YSGA 
- County 

Well Monitoring

Continuous

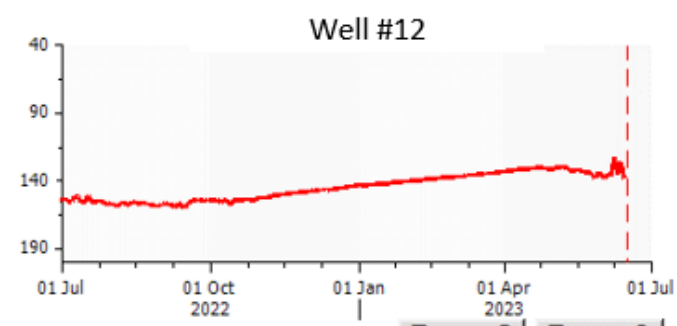
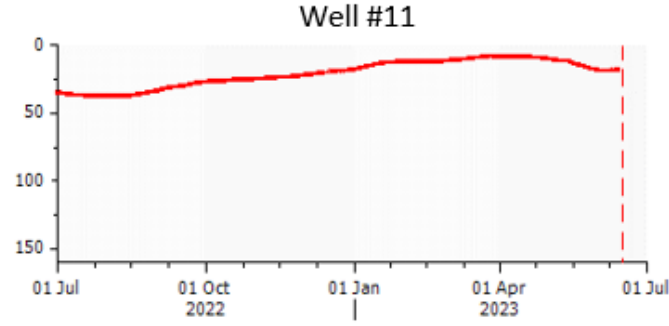
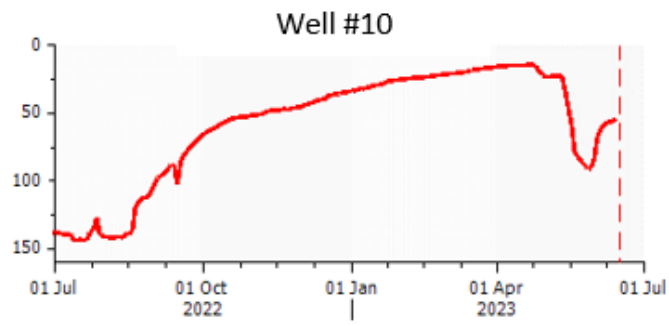
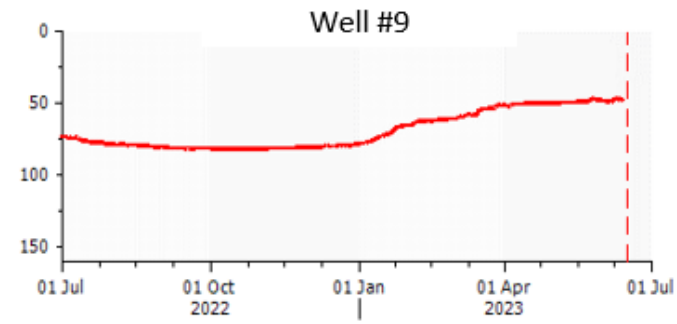
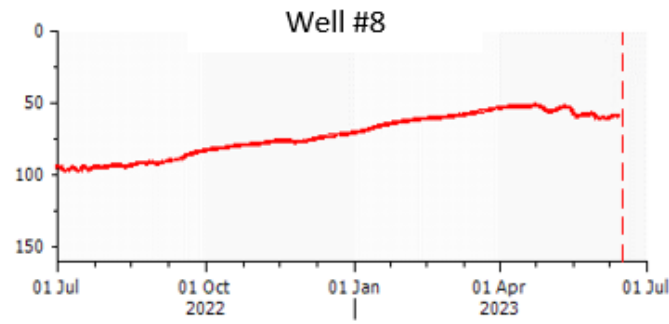
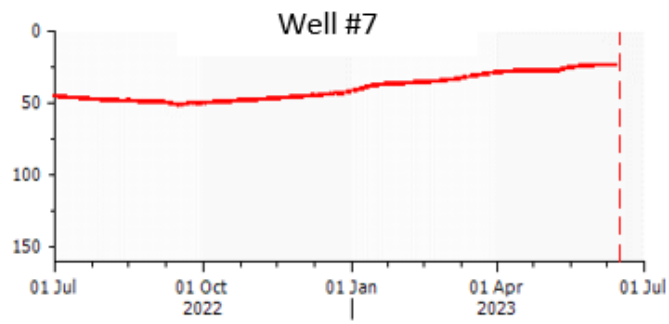
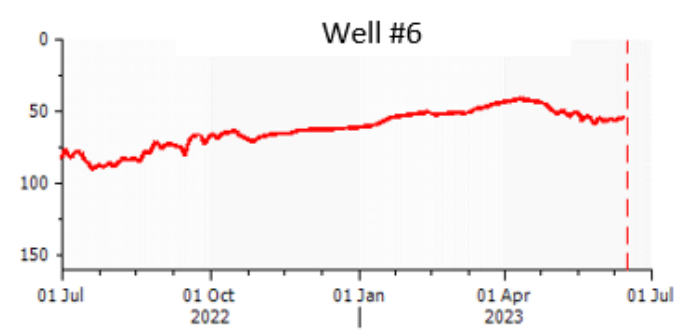
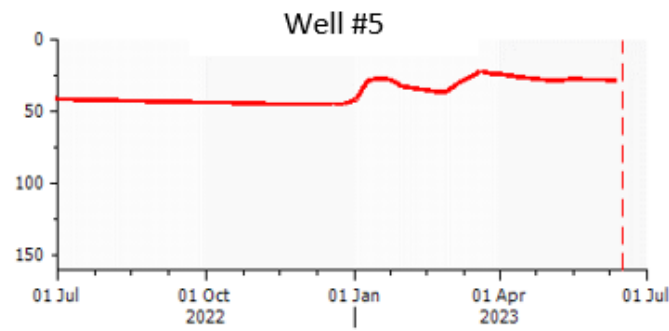
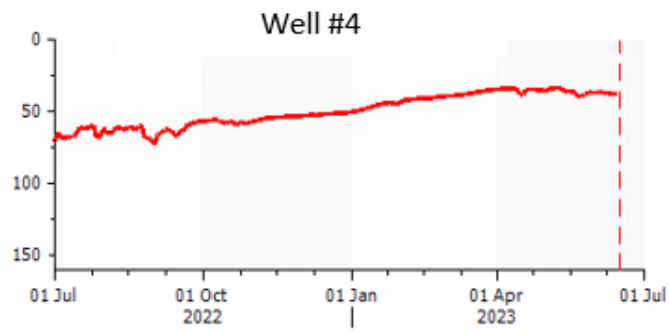
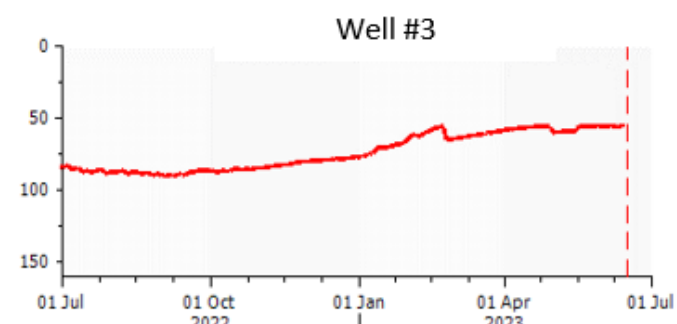
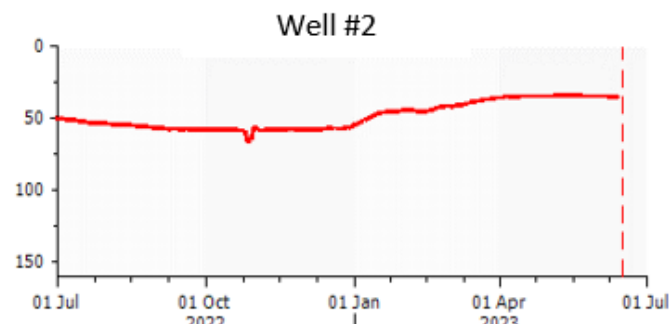
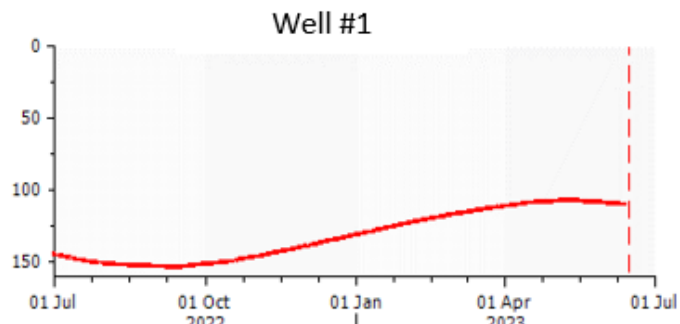


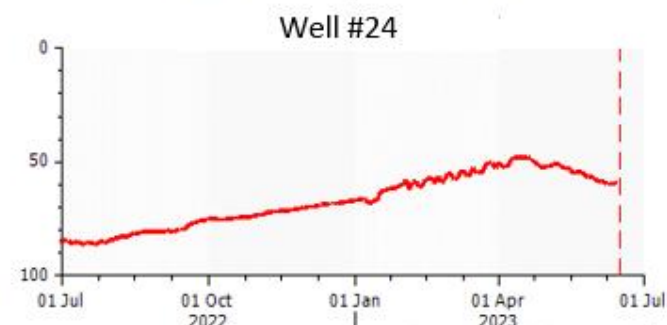
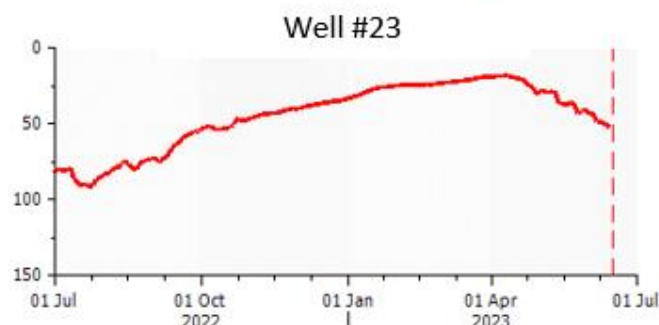
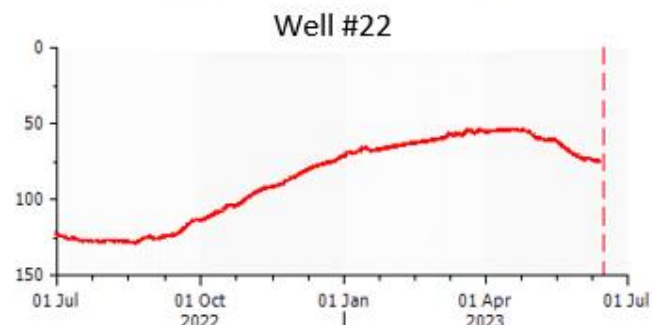
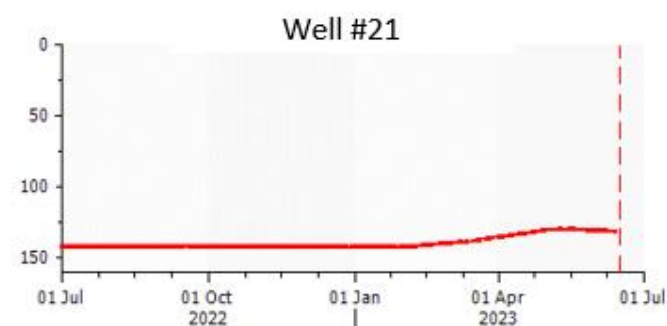
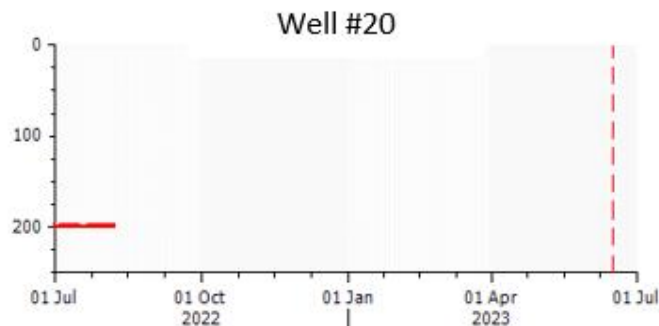
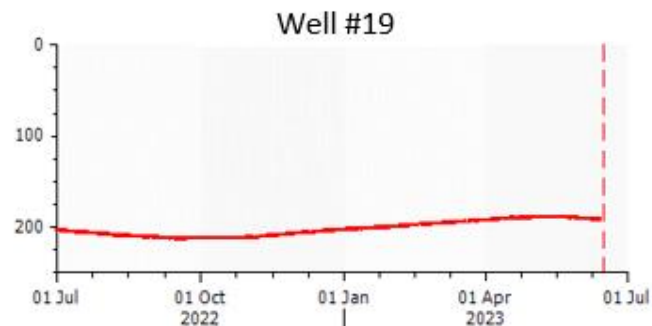
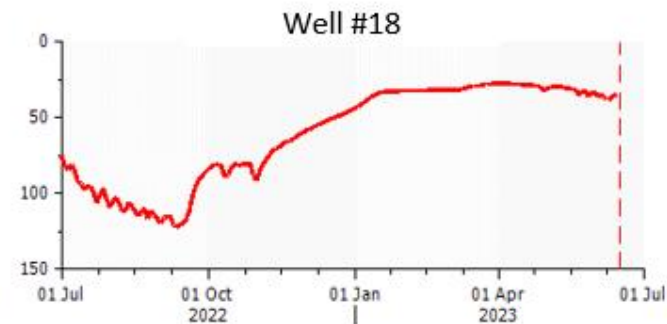
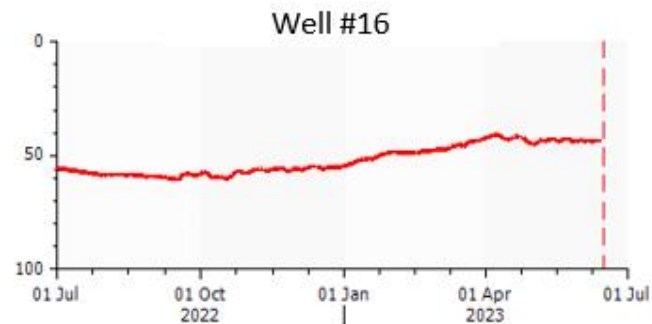
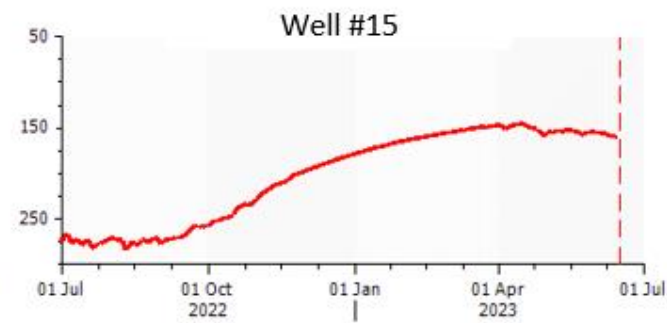
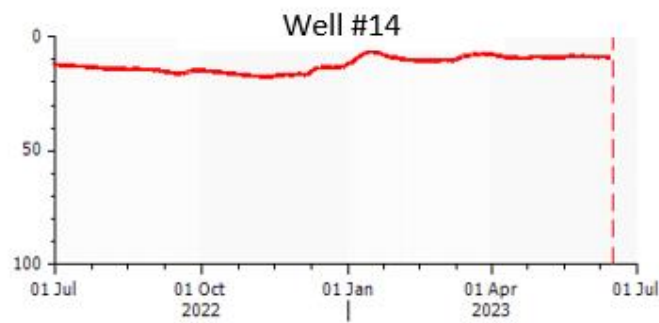
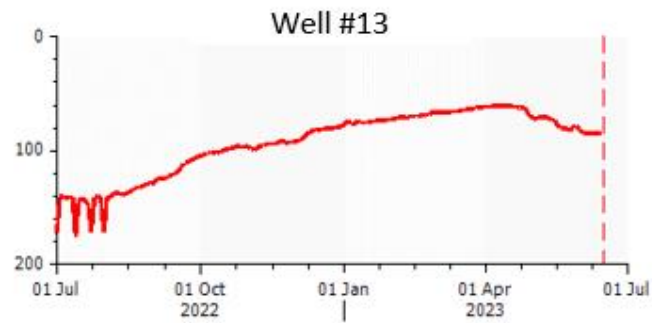
Well Monitoring

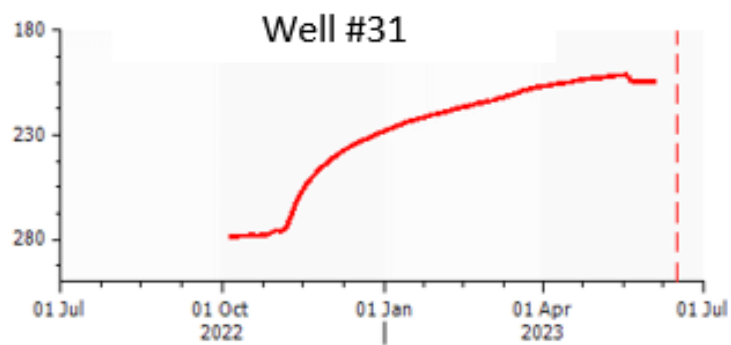
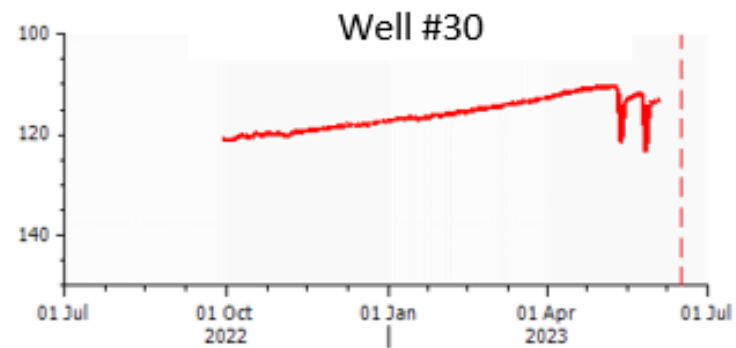
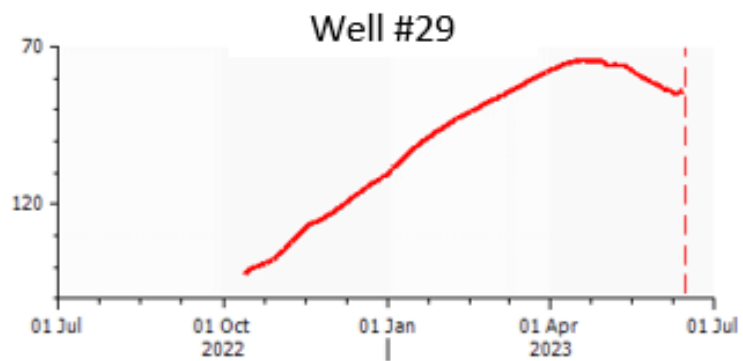
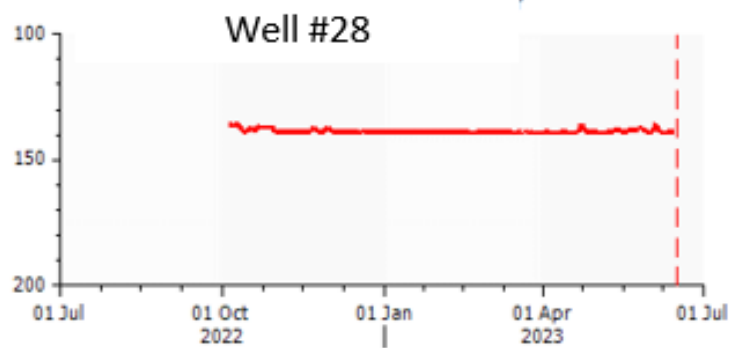
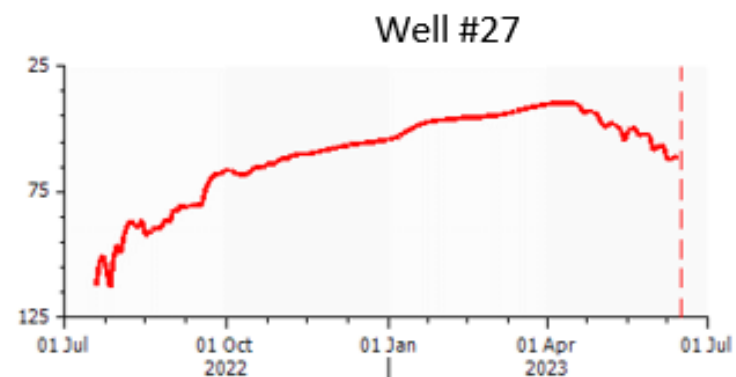
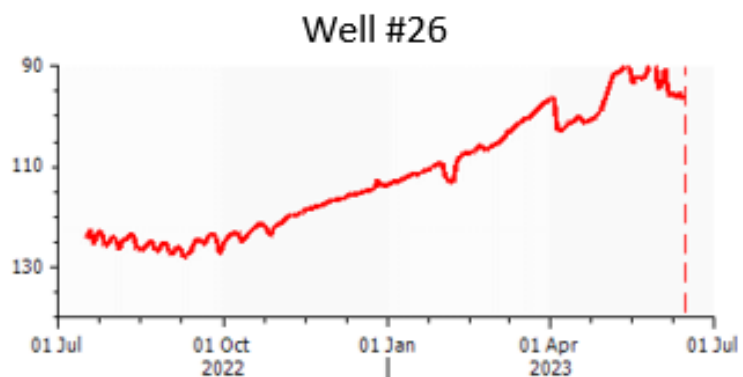
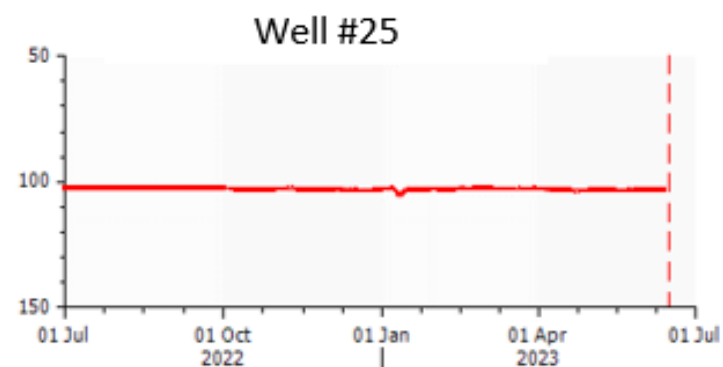
Depth to Water Historical Comparison
(Daily Average DTW in feet)

Well	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Δ 2022 - 2023	Δ 2015 - 2023
1.	87.7	80.5	88.6	96.1	113.9	118.1	110.6	94.1	98.3	93.6	101.7	128.3	139.1	110.1	29.1	8.0
2.	48.2	36.2	48.0		53.4	46.0	42.5	27.8	32.9	27.6	31.2	38.1	46.6	41.4	5.2	4.6
3.		38.7	42.0	46.9	71.1	71.7	58.2	36.6	42.3	36.3	41.8	58.8	79.9	55.0	24.9	16.6
4.		32.8	38.1	48.7	55.7	57.6	53.4	30.9	38.5	32.3	35.4	47.0	62.2	38.0	24.2	19.6
5.		14.5	18.8	17.2	32.6	33.6	36.7	20.4	28.3	14.9	20.8	31.5	40.5	28.3	12.2	5.3
6.			56.9	60.7	87.6	83.4	69.5	40.8	51.0	35.1	42.6	66.5	81.1	55.1	25.9	28.2
7.				29.4	29.4	40.2	28.3	15.2	18.4	15.7	21.0	41.1	43.2	22.9	20.3	17.3
8.					86.8	87.3	84.0	61.7	67.2	51.2	64.1	86.6	91.2	67.0	24.2	20.3
9.					64.1	64.7	55.1	38.0	43.2	38.6	42.7	55.3	69.3	49.1	20.3	15.6
10.						126.6	70.9	44.4	50.7	31.4	57.5	75.7	126.5	54.5	72.1	72.1
11.						31.1	22.6	15.0	17.7	11.7	21.9	26.8	31.4	17.8	13.6	13.3
12.										117.9		135.0	149.6	139.5	10.1	
13.									102.6	77.1	103.2	127.9	156.7	86.0	70.6	
14.										8.3	9.6	12.6	11.4	8.9	2.5	
15s.										33.6	36.9	49.9	47.2	34.8	12.3	
15d.										122.7	152.9	195.1	269.7	159.9	109.8	
16.										31.1	42.4	44.4	53.4	44.4	8.9	
17.										19.2		31.0	34.3			
18.										45.1		92.4	67.1	34.8	32.3	
19.												187.0	198.1	191.4	6.6	
20.																
21.												134.0	141.8	131.6	10.2	
22.												106.5	113.9	75.7	38.2	
23.													76.0	61.3	14.7	
24.													82.3	60.5	21.7	
25.													102.4	103.3		
26.														100.4		
27.														67.3		
28.														140.4		
29.														84.2		

----- Working on a replacement -----

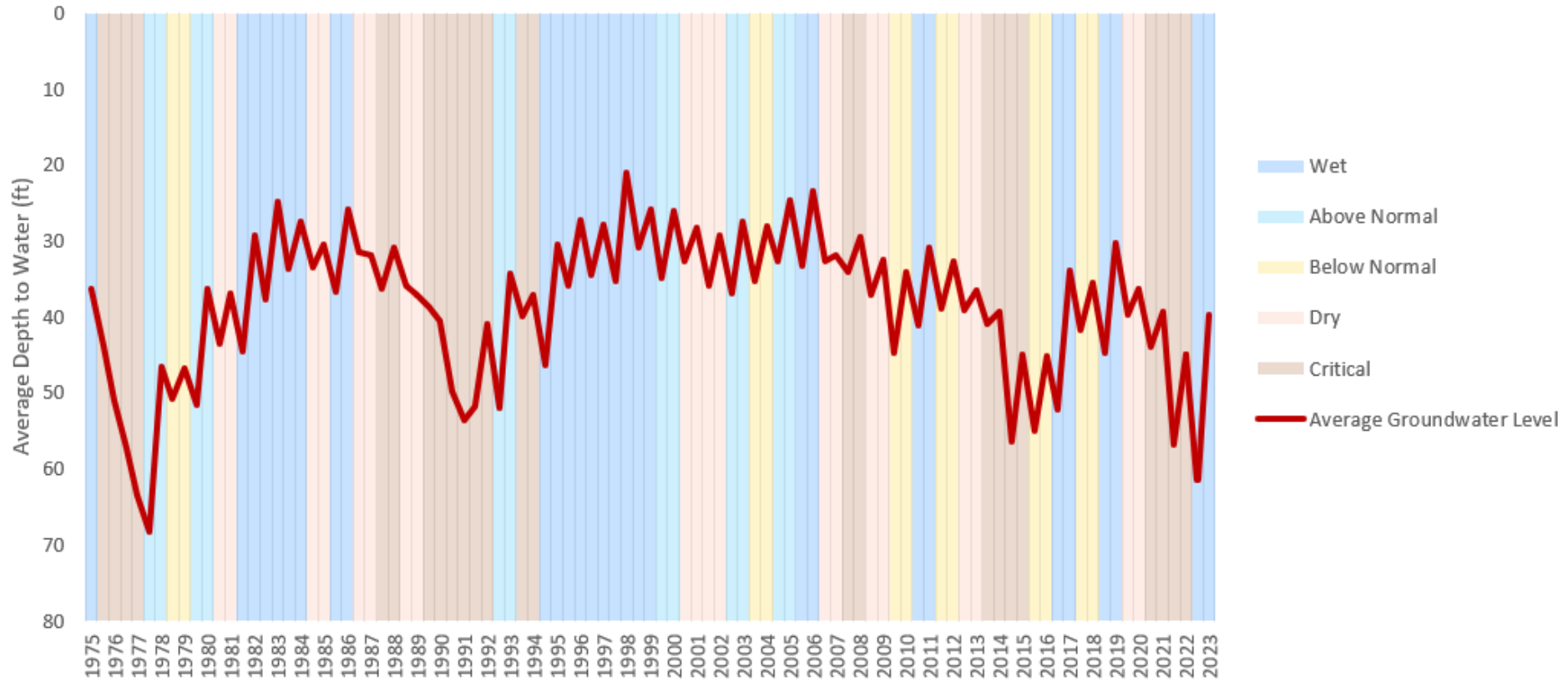






Yolo Subbasin Average Groundwater

Representative Wells - Depth by Season (62 Wells)



Mid-March 2021 Average Depth to Water ~ 39 feet
 Mid-August 2021 Average Depth to Water ~ 57 feet
 Early March 2022 Average Depth to Water ~ 45 feet
 September 2022 Average Depth to Water ~62 feet
 April 2023 Average Depth to Water ~ 40 feet

Of Note:

1977-78 Recovery from Fall to Spring ~21 feet
 2016-17 Recovery from Fall to Spring ~ 18 feet
 2022-23 Recovery from Fall to Spring ~22 feet

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Updates and progress made since GSP Submission



Data Improvements

2020 and 2021 land use data made available
9 new monitoring wells added
AEM data made available



Stakeholder Outreach and Engagement

Hungry Hollow Groundwater Committee was formed, held a community town hall, and continues to meet to discuss concerns and potential projects



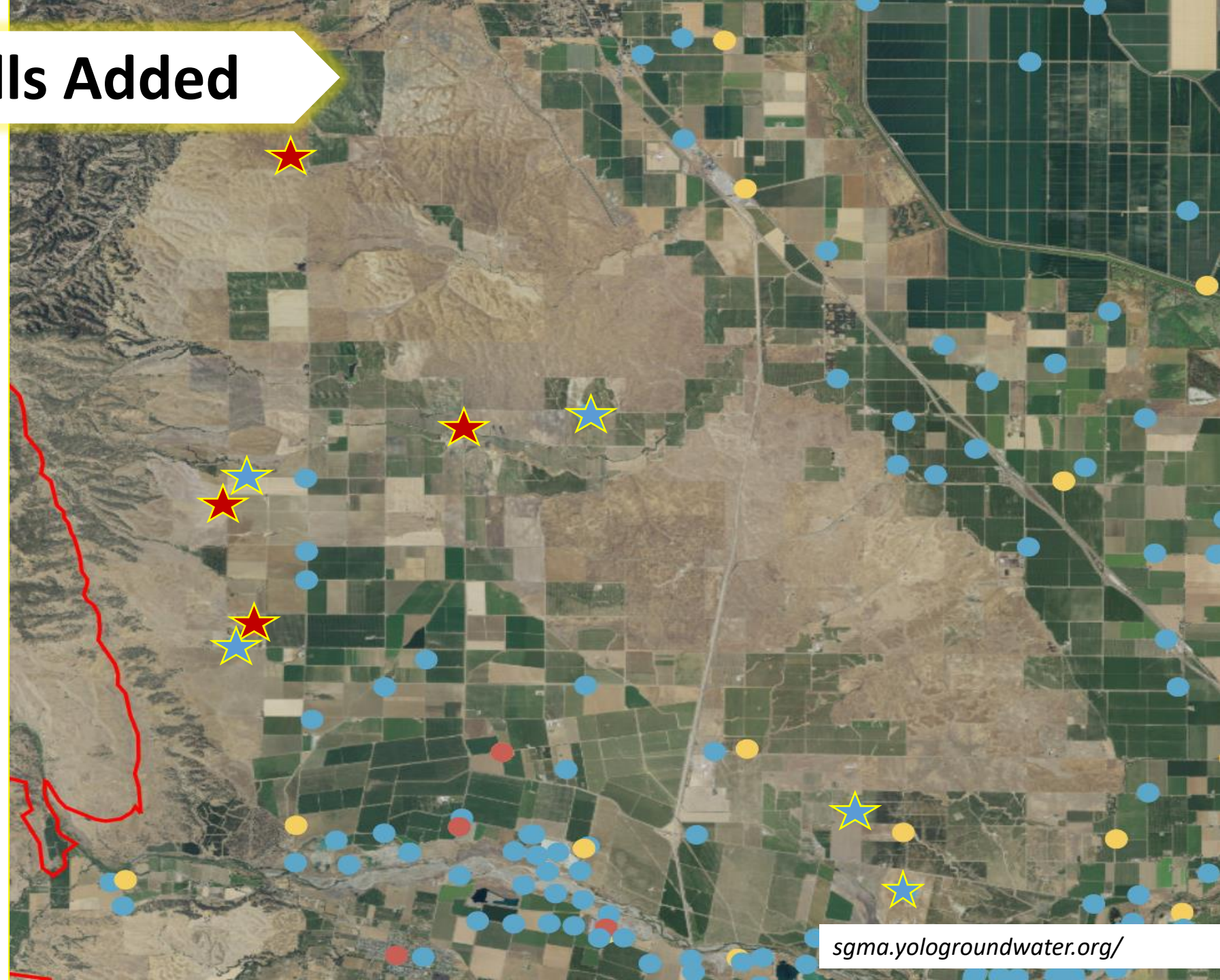
Grant Funding

Draft funding awarded from SGMA Implementation Grant: \$440,000
\$300,000 proposal submitted to Creative Corps for video series highlighting sustainable ag practices

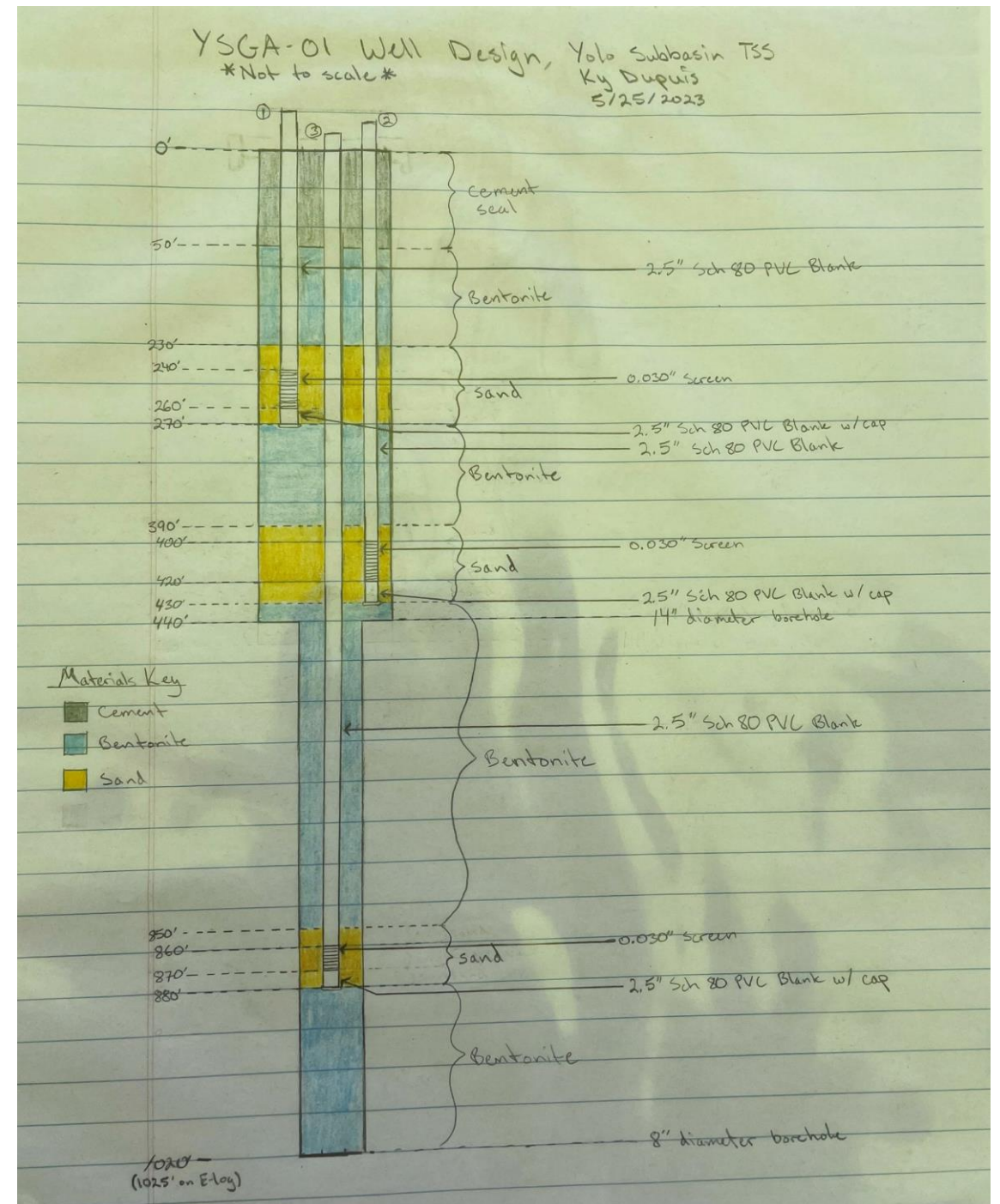
9 Monitoring Wells Added

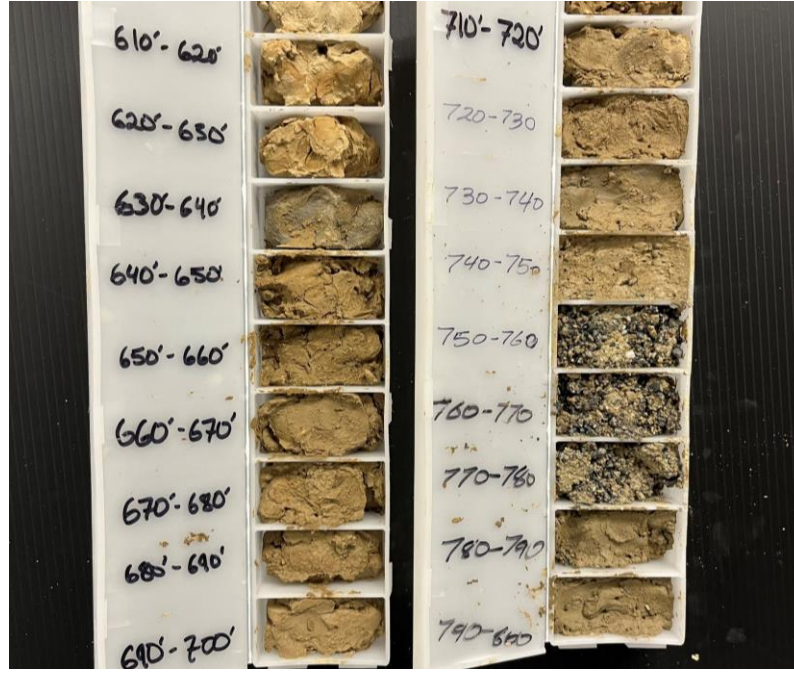
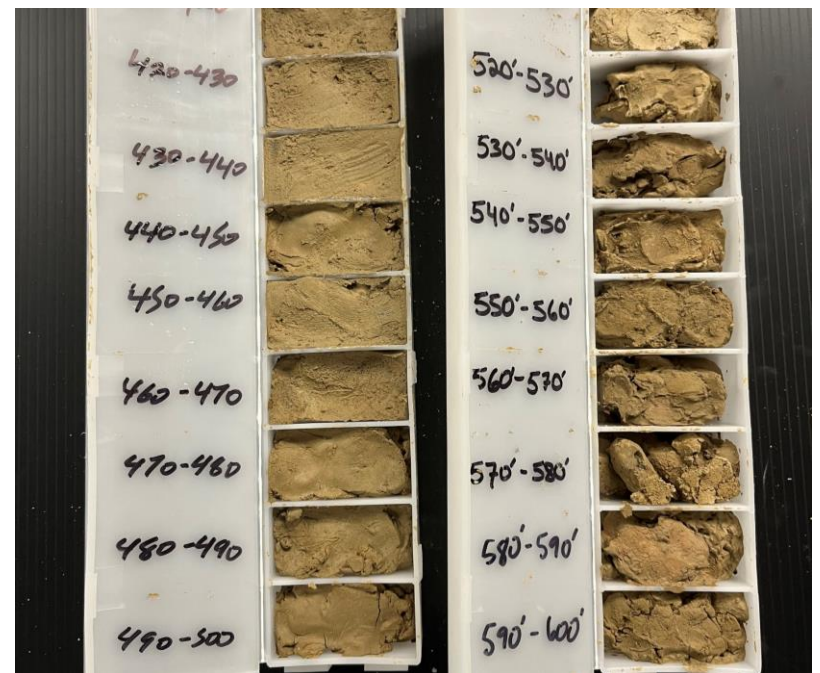
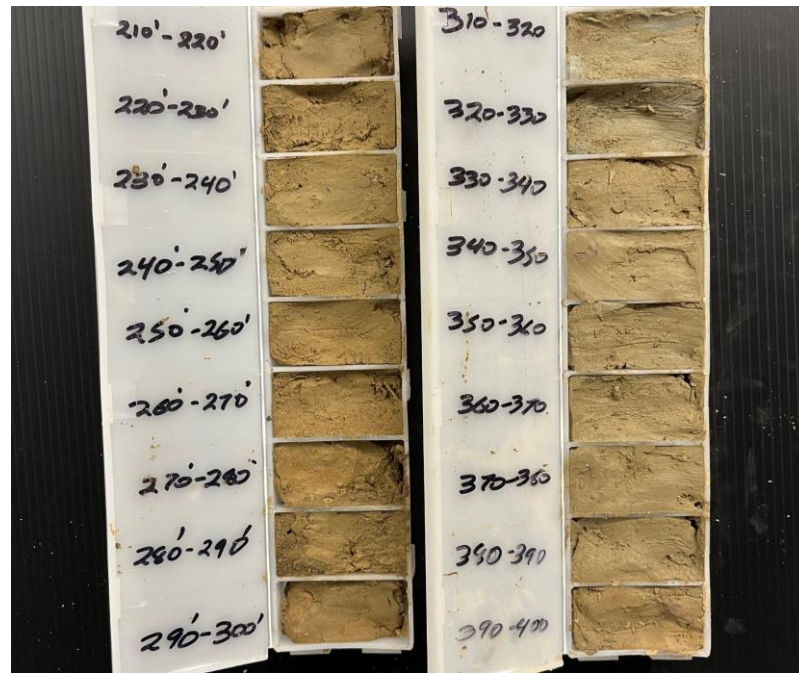
Legend

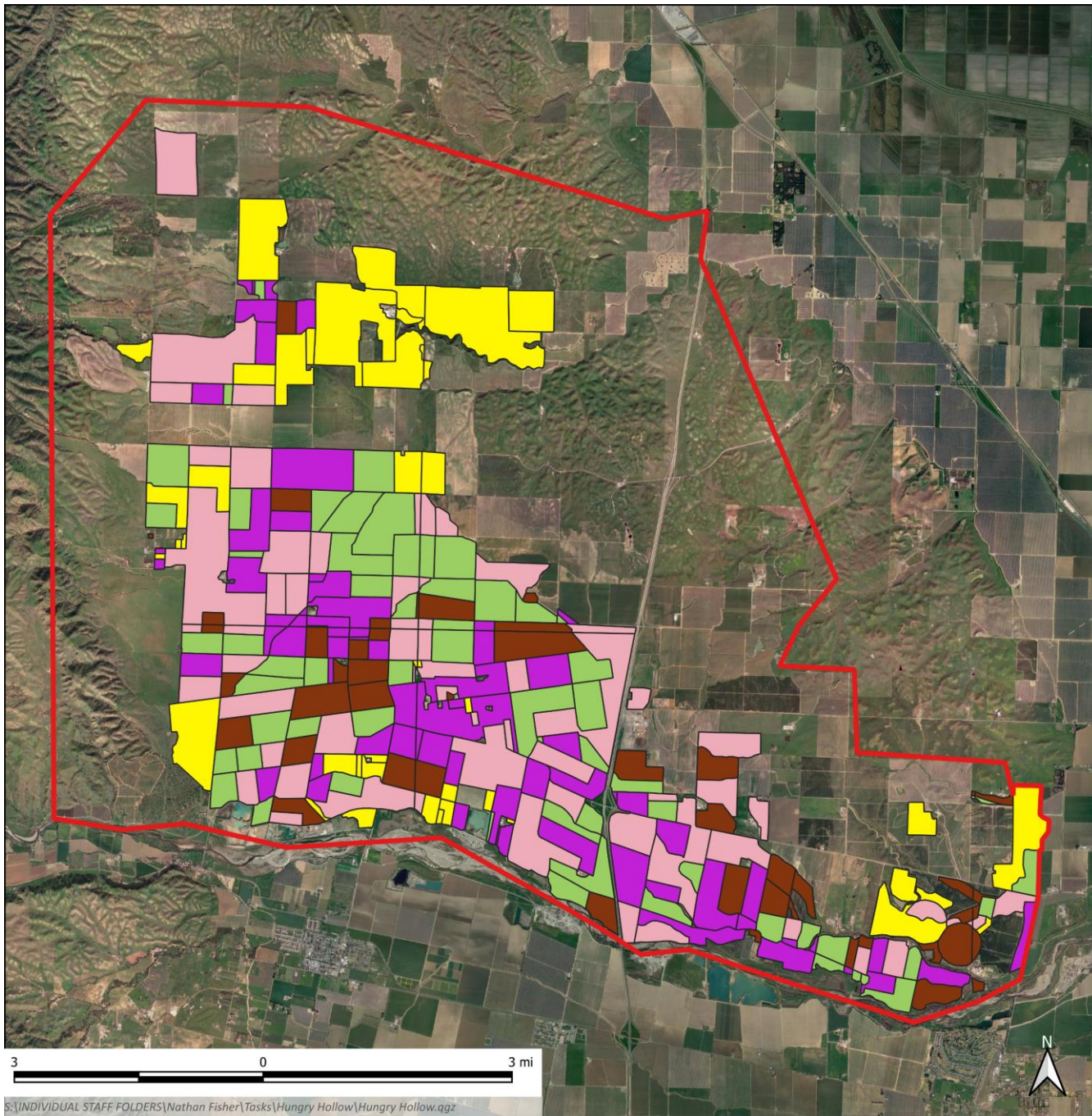
- SGMA Representative Well
- Periodic Monitoring Well
- Continuous Monitoring Well
- YSGA Subbasin Boundary



Multi-completion monitoring well












Land Use

Hungry Hollow Area,
1997

 Hungry Hollow Boundary

Irrigated Acreage

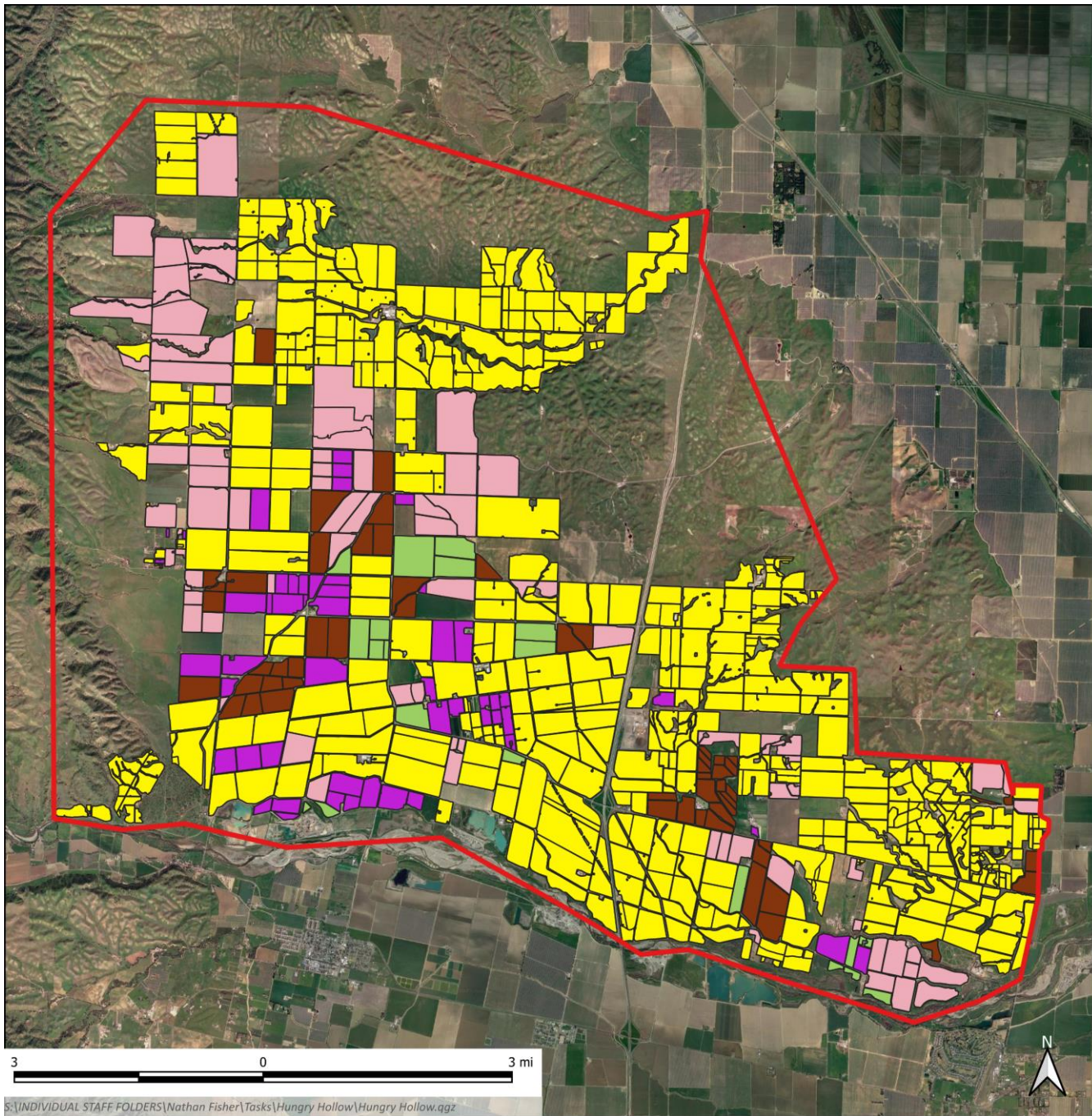
1997

-  Field Crops
-  Grain/Hay
-  Pasture
-  Truck crops
-  Perennial

SOURCE: Land Use Data CA DWR, Imagery @2023
TerraMetrics, Map data @2023 Google
CRS: NAD83 / California Albers



**YOLO SUBBASIN
GROUNDWATER AGENCY**








Land Use

Hungry Hollow Area,
2021

 Hungry Hollow Boundary

Irrigated Acreage

2021

-  Field Crops
-  Grain/Hay
-  Pasture
-  Truck Crops
-  Perennial

SOURCE: Land Use Data CA DWR, Imagery @2023
TerraMetrics, Map data @2023 Google
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**YOLO SUBBASIN
GROUNDWATER AGENCY**

Perennial Crops on Previously Unirrigated Lands

Hungry Hollow Area,
1997-2021

 Hungry Hollow Boundary

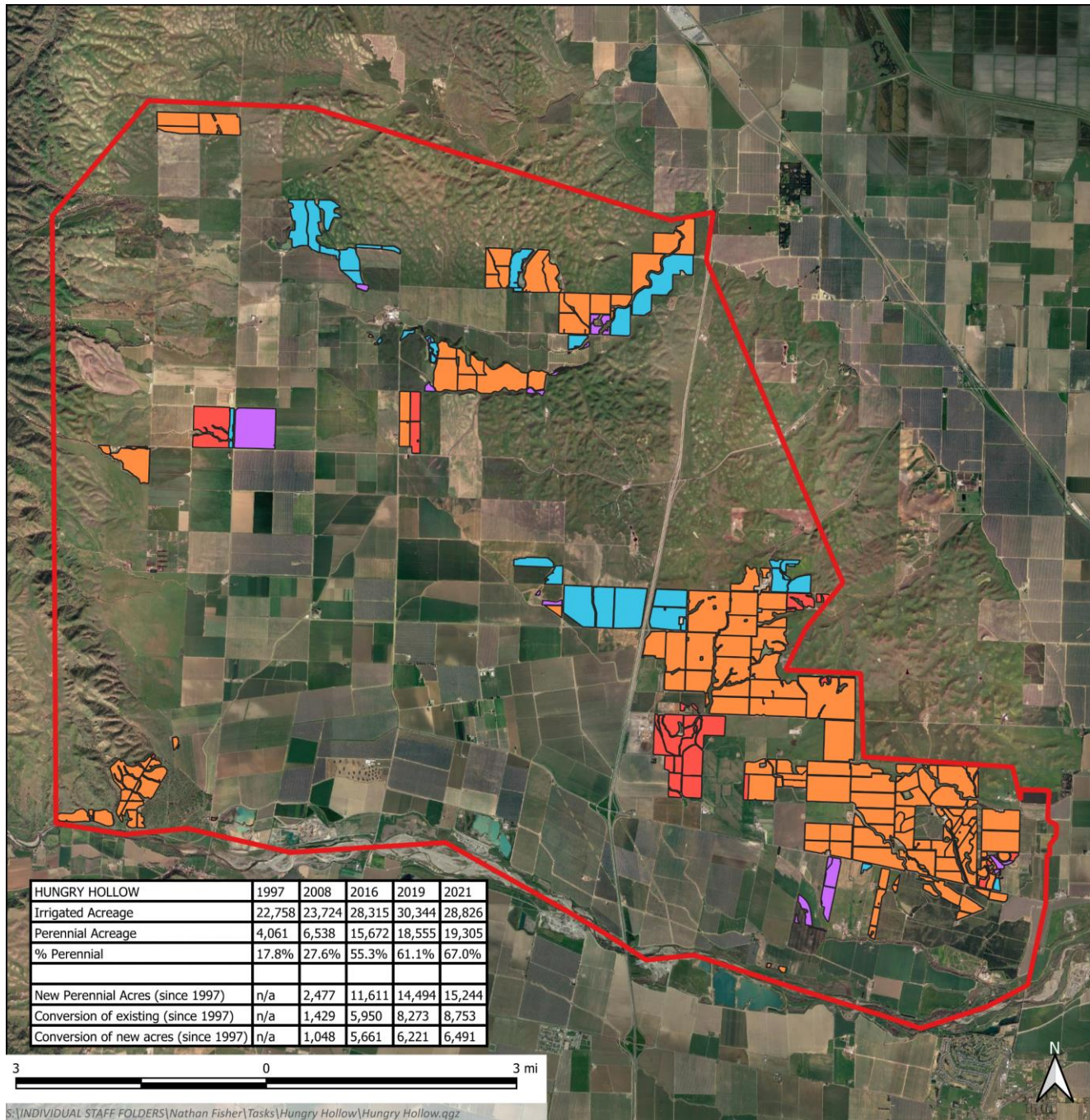
Perennial Plantings

 Planted between 1997-2008

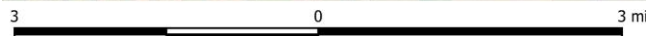
 Planted between 2009-2016

 Planted between 2017-2019

 Planted between 2020-2021



HUNGRY HOLLOW	1997	2008	2016	2019	2021
Irrigated Acreage	22,758	23,724	28,315	30,344	28,826
Perennial Acreage	4,061	6,538	15,672	18,555	19,305
% Perennial	17.8%	27.6%	55.3%	61.1%	67.0%
New Perennial Acres (since 1997)	n/a	2,477	11,611	14,494	15,244
Conversion of existing (since 1997)	n/a	1,429	5,950	8,273	8,753
Conversion of new acres (since 1997)	n/a	1,048	5,661	6,221	6,491

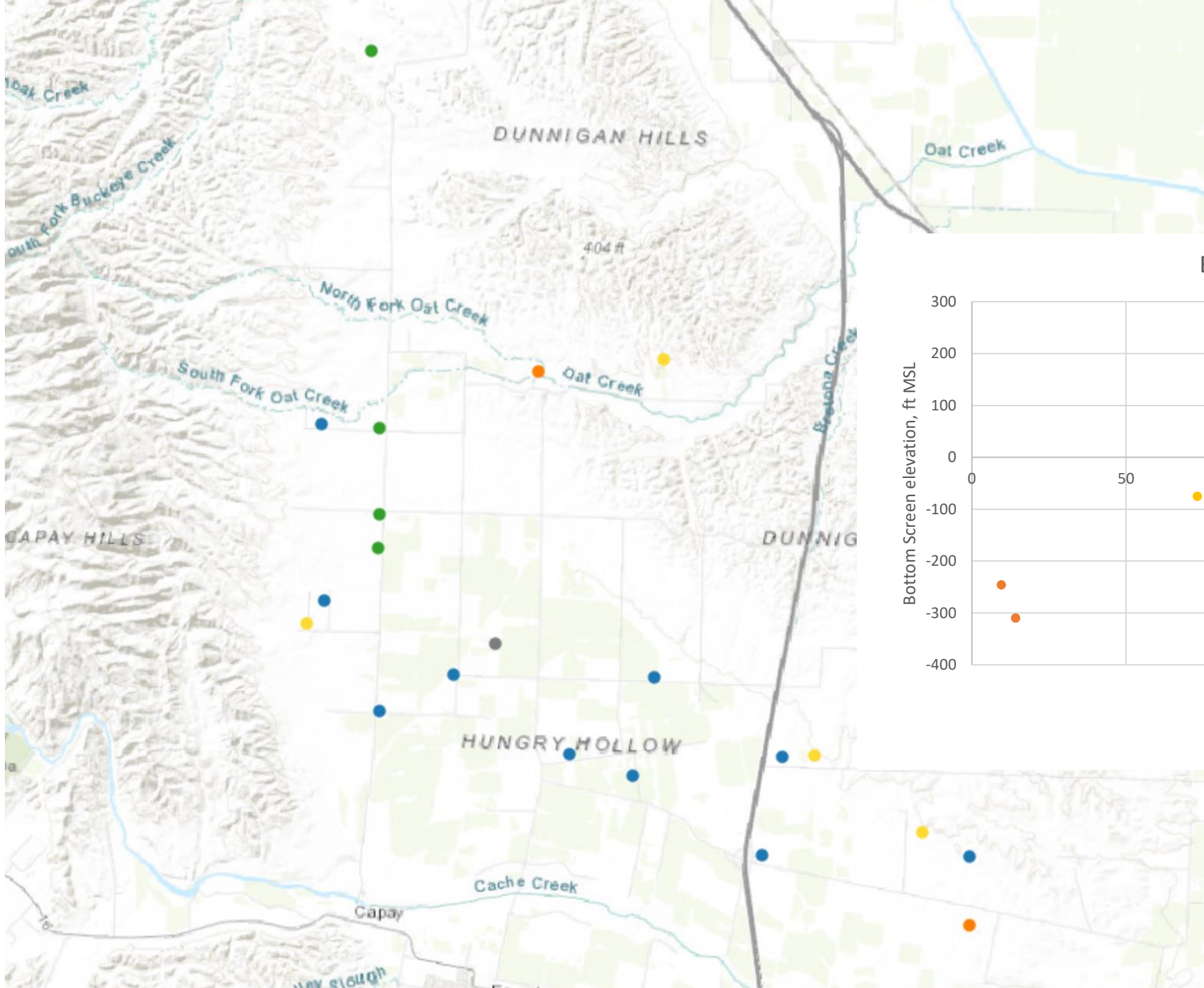


SOURCE: Land Use Data CA DWR, Imagery @2023
TerraMetrics, Map data @2023 Google
CRS: NAD83 / California Albers

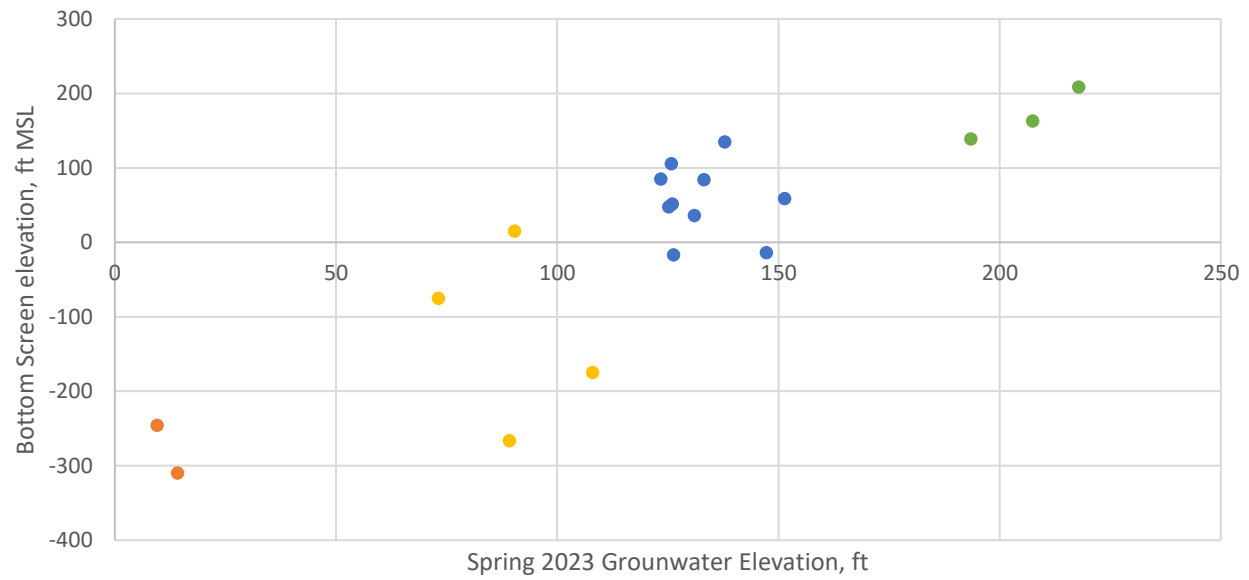


**YOLO SUBBASIN
GROUNDWATER AGENCY**

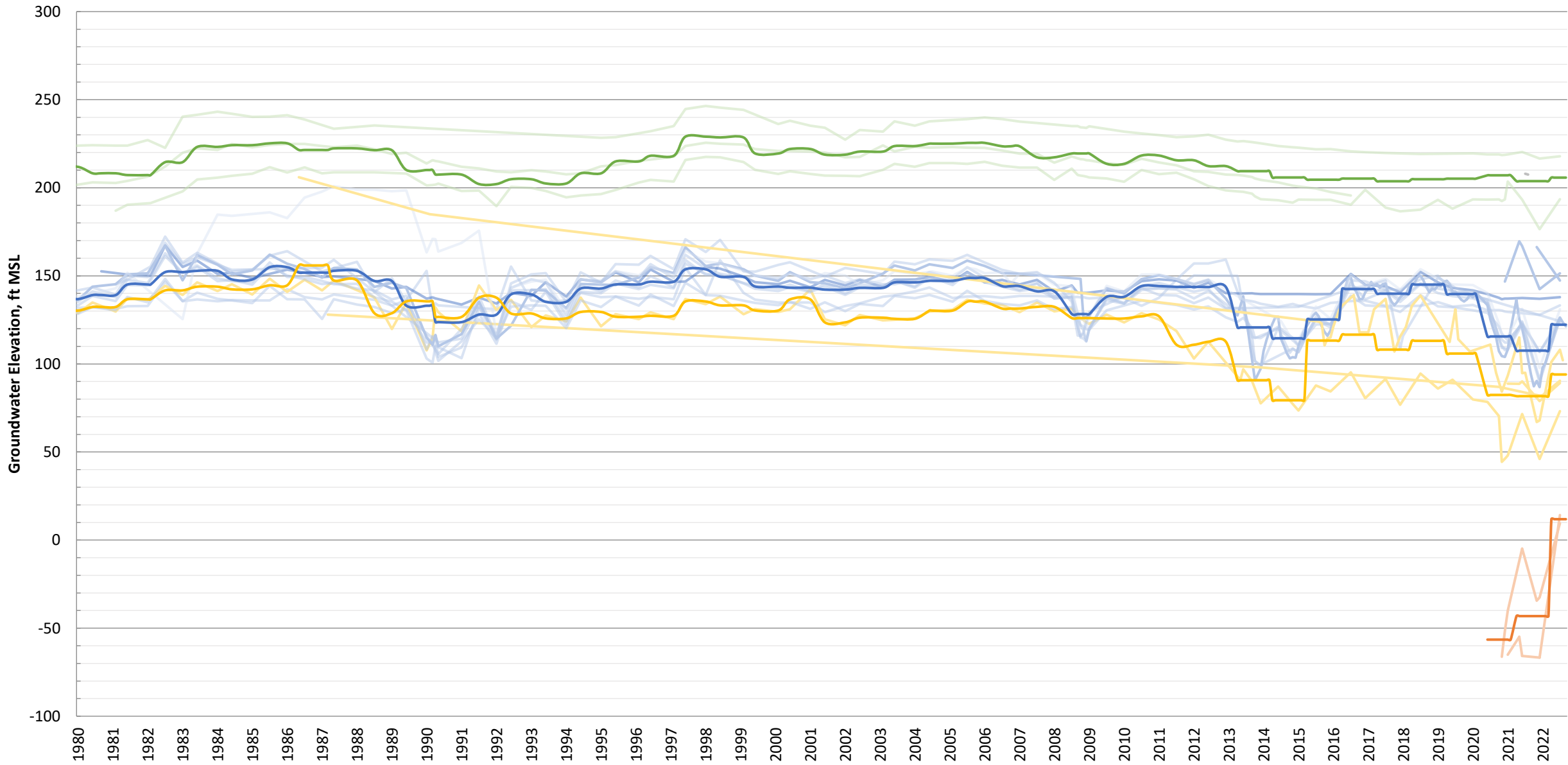
HUNGRY HOLLOW	1997	2008	2016	2019	2021
Total Irrigated Acreage	22,800	23,700	28,300	30,300	28,800
Total Perennial Acreage	4,100	6,500	15,700	18,600	19,300
Perennial Acreage (%)	18%	28%	55%	61%	67%
New perennial acres (Since 1994)	N/A	2,500	11,600	14,500	15,200
<i>Conversion from annual crop</i>	N/A	1,400	6,000	8,300	8,800
<i>Conversion from unirrigated</i>	N/A	1,000	5,700	6,200	6,500



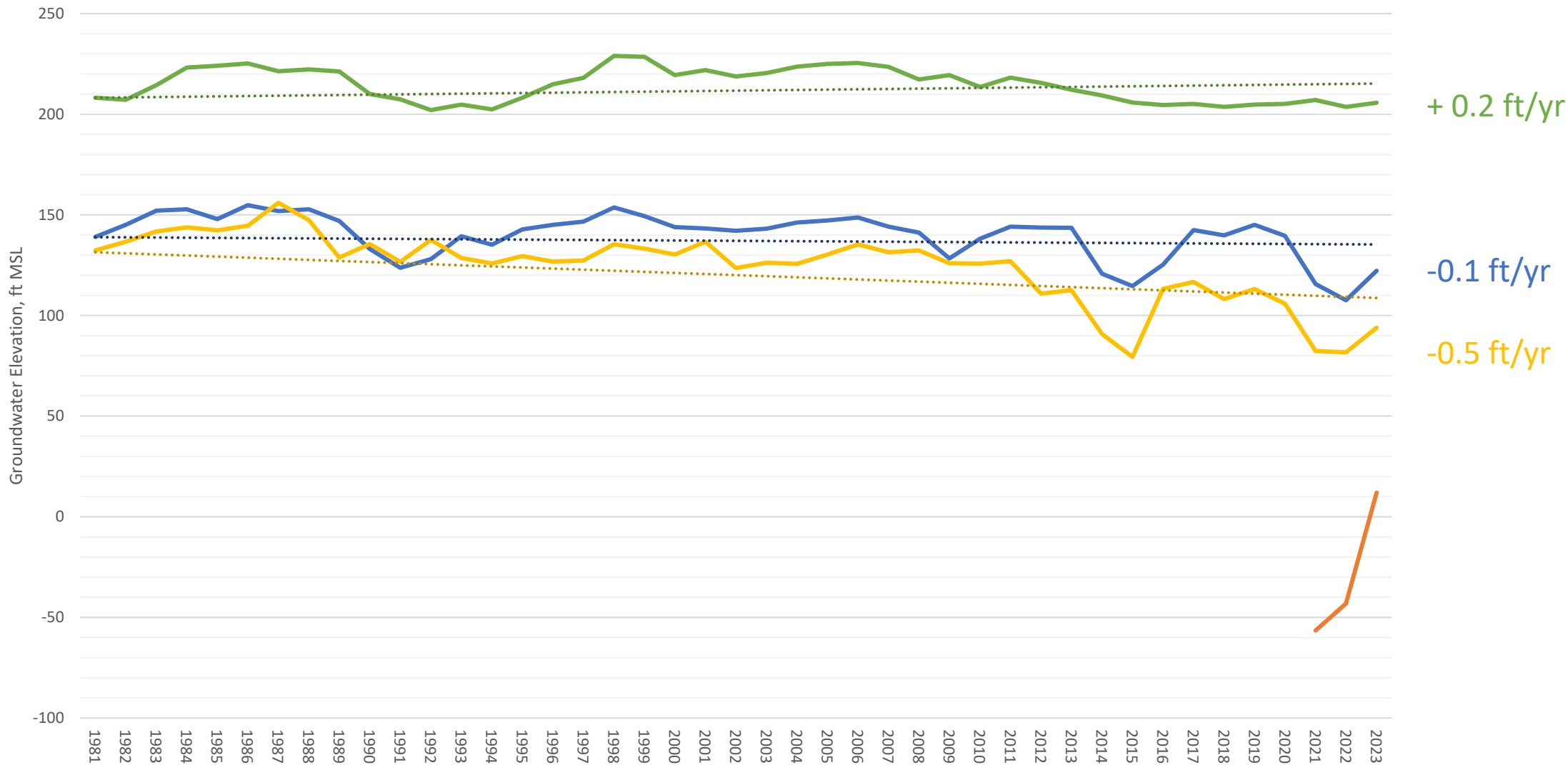
Bottom Screen vs GWE



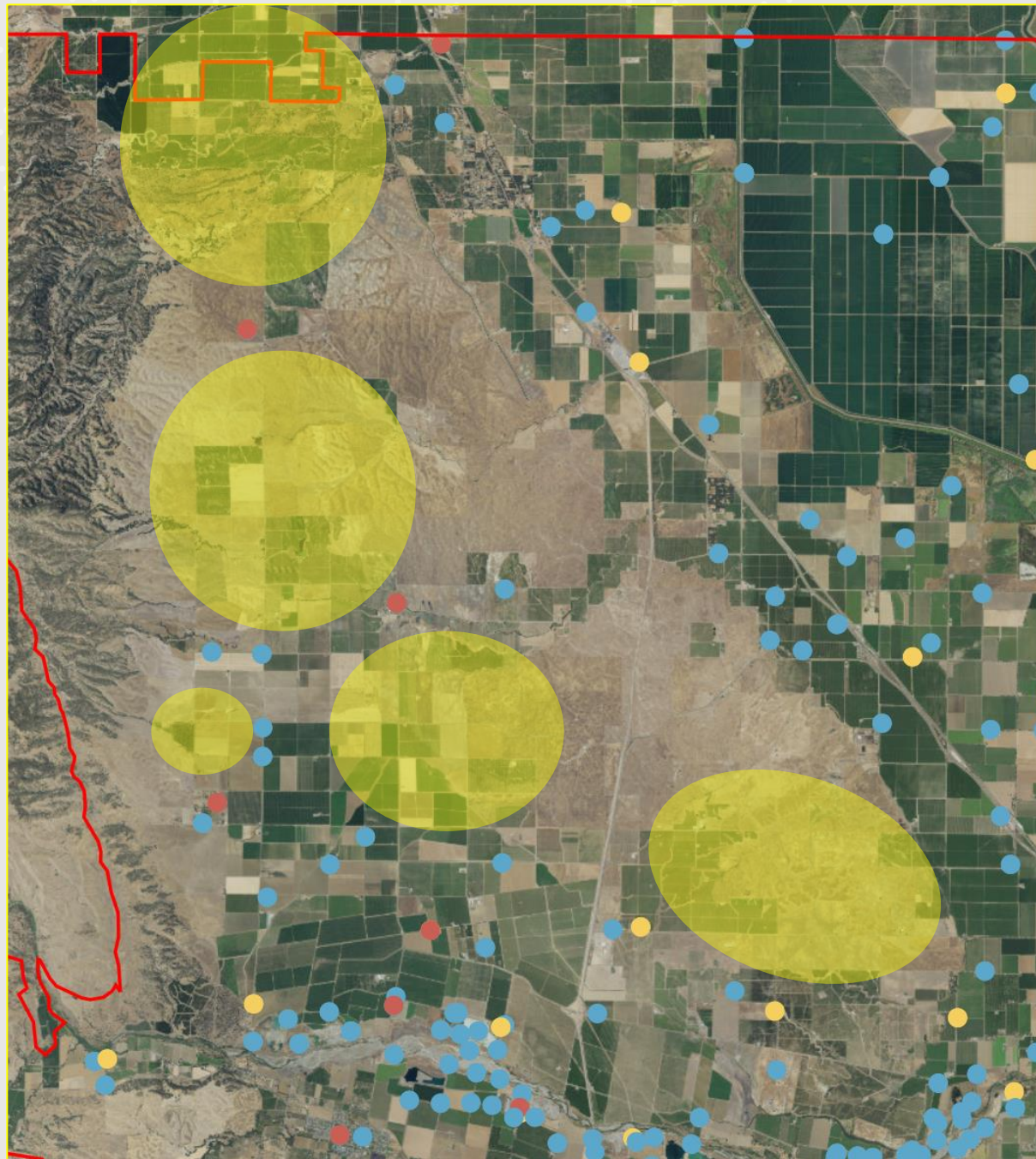
Hungry Hollow Groundwater Elevation



Groundwater Elevation since 1980



Remaining Data Gaps



West Yost Proposal

- Task 1 – Technical Advisory Support
 - West Yost staff will serve in an advisory role when requested by YSGA staff on specific hydrogeologic technical tasks supporting implementation of the Yolo Subbasin GSP.
- Task 2 – Well Permitting Support
 - West Yost staff will prepare a technical memorandum (TM) describing the guidelines to be used by well permit applicants to develop their Hydrogeologist Reports, and evaluation criteria for the YSGA to assess these reports.
- Task 3 – Areas of Concern Hydrogeologic Analysis
 - West Yost will support YSGA staff in conducting hydrogeologic analyses of Areas of Concern to evaluate the native yield and what impacts may occur based on changing land use or hydrologic conditions.

Facilitation Support Services

- **Services Offered through DWR-funded Professional Facilitators:**
 - Stakeholder assessments
 - Governance development
 - Stakeholder communication and engagement planning and support
 - Public outreach
 - Targeted outreach to underrepresented groundwater users
 - Tribal government outreach and engagement
 - Identification and engagement of interested parties
 - Meeting facilitation
 - Intra-basin and inter-basin coordination support
 - Interest-based negotiation/consensus building

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Components	Grant Amount
Component 1: Grant Administration	\$613,875
Component 2: Yolo Subbasin GSP Implementation	\$1,721,000
Component 3: Yolo-Zamora Groundwater Recharge Pilot Project	\$1,221,050
Component 4: Dunnigan Area Recharge Program	\$1,180,950
Component 5: City of Winters Feasibility Studies	\$580,000
Component 7: YCFC&WCD Winter Water Recharge Program	\$2,600,000
Total:	\$7,917,000

GSP Implementation

- Develop GSP Annual Reports, Update GSP based on DWR's Comments, and Complete Fee Study
- Complete Groundwater Model Enhancements
- Develop an Approach to Refine Interconnected Surface Water SMC
- Conduct GPS Subsidence Survey Updates
- Develop a Hungry Hollow Area PMA White Paper
- Complete Monitoring Network Enhancements to Address Data Gaps

2) Complete Groundwater Model Enhancements involves updating the model and water budget in the GSP, calibrating and refining model inputs, outputs, and parameterization, and incorporating improved evapotranspiration data. Tasks include extending the historical simulation period from 2018 to 2022, incorporating updated land use data, forecasting land use changes and the impact to the water budget, updating surface water inputs to better reflect the reality of drought conditions, revising modeled demand of managed wetlands to better reflect on-the-ground conditions, incorporating Capay's Integrate Groundwater Surface Water Model, and modeling additional projects and management actions based on current drought conditions.

Deadline	Grant Program	Project
Late summer 2023	ICARP Office of Planning and Research – Regional Resilience Planning Grant Program	Yolo Subbasin Groundwater Sustainability Plan Implementation
Late August/early September 2023	US Bureau of Reclamation – WaterSMART Drought Resiliency Projects Grant	Oat Creek / Zamora Groundwater Recharge Pilot Project
Late August/early September 2023	US Bureau of Reclamation – WaterSMART Drought Resiliency Projects Grant	Woodland Aquifer Storage & Recovery Well Project
TBD 2023/24	State Water Resources Control Board – Water Recycling Funding Program	Woodland Recycled Water Utility Expansion Project
TBD 2024	ICARP Office of Planning and Research – Regional Resilience Planning Grant Program (if not successful in 2023-24)	Yolo Subbasin Groundwater Sustainability Plan Implementation
TBD 2024/25	State Water Resources Control Board – Drinking Water State Revolving Fund Program (Loan)	Woodland Aquifer Storage & Recovery Well Project
Early 2025	State Water Resources Control Board – Water Recycling Funding Program – Implementation	City of Winters Supplemental Surface Water Feasibility Study
Early 2025	State Water Resources Control Board – Safe and Affordable Funding for Equity and Resilience Program (SAFER) – Implementation	City of Winters Supplemental Surface Water Feasibility Study
Early 2025	State Water Resources Control Board – Drinking Water State Revolving Fund Program (Loan) – Implementation	City of Winters Supplemental Surface Water Feasibility Study

Early 2025	State Water Resources Control Board – Water Recycling Funding Program – Implementation	City of Winters Wastewater Treatment Facility Feasibility Study
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Yolo-Zamora Groundwater Recharge Pilot Project
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Yolo Subbasin Groundwater Sustainability Plan Implementation
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Dunnigan Area Recharge Program
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	City of Winters Wastewater Treatment Facility Feasibility Study
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Oat Creek / Zamora Groundwater Recharge Pilot Project
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	City of Winters Supplemental Surface Water Feasibility Study
TBD 2025/26	Department of Water Resources – Sustainable Groundwater Management Act (if funded through proposed CA Natural Resources Bond)	Oat Creek / Zamora Groundwater Recharge Pilot Project
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Winter Water Recharge Program
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Woodland Aquifer Storage & Recovery Well Project
TBD 2025/26	Department of Water Resources – Sustainable Groundwater Management	Woodland Aquifer Storage & Recovery Well Project
TBD 2025/26	Department of Water Resources – Integrated Regional Water Management Grant Programs (if funded through proposed CA Natural Resources Bond)	Woodland Recycled Water Utility Expansion Project
TBD 2025/26	Department of Water Resources – Sustainable Groundwater Management Act (if funded through proposed CA Natural Resources Bond)	Woodland Recycled Water Utility Expansion Project

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Consideration: Financial Items

a) Adopt Fiscal Year 2023-2024 Operating Budget

b) Approve Renewal of Services Agreement with YCFC&WCD for 2021-2023

c) Authorize Executive Officer to Enter into Amended Agreement with Consero Solutions to Proceed with Grant Strategy Report Implementation

d) Authorize Executive Officer to Enter into Agreement with West Yost Associates

Revenue	FY2023-2024
City of Davis	40,000
City of West Sacramento	40,000
City of Woodland	40,000
City of Winters	20,000
Yocha Dehe Wintun Nation	10,000
Esparto Community Services District	5,000
Madison Community Services District	5,000
Subtotal Municipal Agencies Revenue	\$160,000
Yolo County Flood Control & WCD (200,000 acres)	100,000
Yolo County (White Areas) (160,000 acres)	40,000
Direct Contributions (White Areas) (40,000 acres)	20,000
Other Contributions from Rural Agencies ¹	40,000
Dunnigan Water District (10,700 acres)	5,350
Reclamation District 108 (23,200 acres)	11,600
Reclamation District 150 (4,293 acres)	2,147
Reclamation District 307 (5,941 acres)	2,971
Reclamation District 537 (6,077 acres)	3,039
Reclamation District 730 (4,498 acres)	2,249
Reclamation District 765 (1,400 acres)	700
Reclamation District 787 (9,400 acres)	4,700
Reclamation District 999 (25,250 acres)	12,625
Reclamation District 1600 (6,924 acres)	3,462
Reclamation District 2035 (18,000 acres)	9,000
Subtotal Rural Agencies Revenue	\$257,842
University of California, Davis	40,000
Colusa Drain Mutual Water Company	10,000
California American Water Company - Dunnigan	5,000
Rumsey Water Users Association	170
Yolo County Farm Bureau (private pumpers)	10,000
Environmental Party Representative (Ann Brice)	0
Subtotal Affiliated Parties Revenue	\$65,170
Interest Income	12,000
Well Permitting Procedures - Regulatory Fee ²	10,000
Subtotal Other Revenue	\$22,000
Retained earnings (QuickBooks) ³	\$748,254
TOTAL REVENUE	\$1,253,266

EXPENDITURES	FY2023-2024
Bank & Other Fees	1,500
Insurance - General & Auto	2,500
Membership Dues	3,000
Administrative Expenses (Copies, Postage, Website and DMS Hosting) ⁴	5,000
Project Management, SGMA Implementation (YCFC&WCD) ⁵	260,000
GSP Verification in Well Permitting Review (YCFC&WCD Project Management) ⁶	10,000
Administrative Expenses Related to Buckeye Creek Recharge Project ⁷	8,863
Consultant Services ⁸	200,000
GSP-Related Consultant costs ⁹	75,000
Legal Services	20,000
Audit Service - Financial ¹⁰	15,300
Groundwater Monitoring Program (Includes Real-time Groundwater Monitoring Sensors)	90,000
TOTAL EXPENDITURES	\$691,163
Net Income (Estimated)	\$562,103

1 - RD 108, RD 787, RD 2035, and YCFC&WCD (\$10,000 each)

2 - Estimated reimbursement for YSGA's review of new well permit applications and well permitting procedures and written verification process.

3 - Estimated net income by June 30, 2023.

4 - Administrative expenses related to copy and postage machine use at YCFC&WCD offices, along with website hosting and DMS expenses for continuing electronic reporting and data collection process for groundwater

5 - YCFC&WCD Project Management, SGMA Implementation - Technical and Administrative Services: Assumes 2.09 FTE for Water Resource Technician positions (monitoring program and administrative and technical services) and 0.20 FTE for Executive Officer position. Includes cost that was historically classified as "Yolo County Groundwater Monitoring Program" that was billed by YCFC&WCD to WRA and then transferred to YSGA.

6 - YCFC&WCD Project Management: Projected expenses related to providing GSP written verification for well permitting process. Assumes 0.10 FTE for Water Resources Technician position and 0.05 FTE for Executive

7 - At the October 11, 2021 Special Board meeting, the Directors authorized \$10,000 of YSGA funds to be expended towards funding the administrative and monitoring tasks related to *Buckeye Creek Recharge Project*. It is estimated that as of June 30, 2022, approximately \$1,000 will be expended by way of staff time in technical and administrative assistance for project development and implementation. This \$9,000 is carryover from the previous fiscal year to achieve the full authorization of up to \$10,000.

8 - Increase in consultant services is related to project prioritization and grant writing services: up to \$90,000 for prioritization of projects within the Subbasin and Management Areas (MAs); and a proposed \$150,000 for grant writing expenses (if desired, it could be allocated by MAs; potentially distributed by physical acreage within each

9 - Estimated cost for consultant assistance related to implementing the GSP.

10 - Estimated fees from previous auditor's fee schedule.

FTE = Full Time Equivalent

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Consero Solutions Agreement

- Task 1: Assist with Advisory Committee Establishment and Prioritize Projects in MAs
- Task 2: Implementation of Grant Strategy for Prioritized Projects
- Task 3: Project Management

- Up to \$70,000

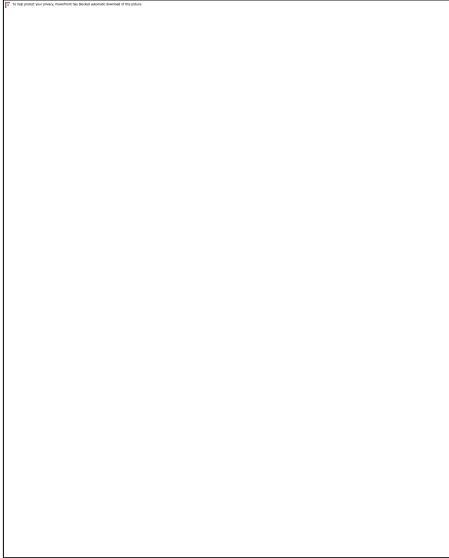
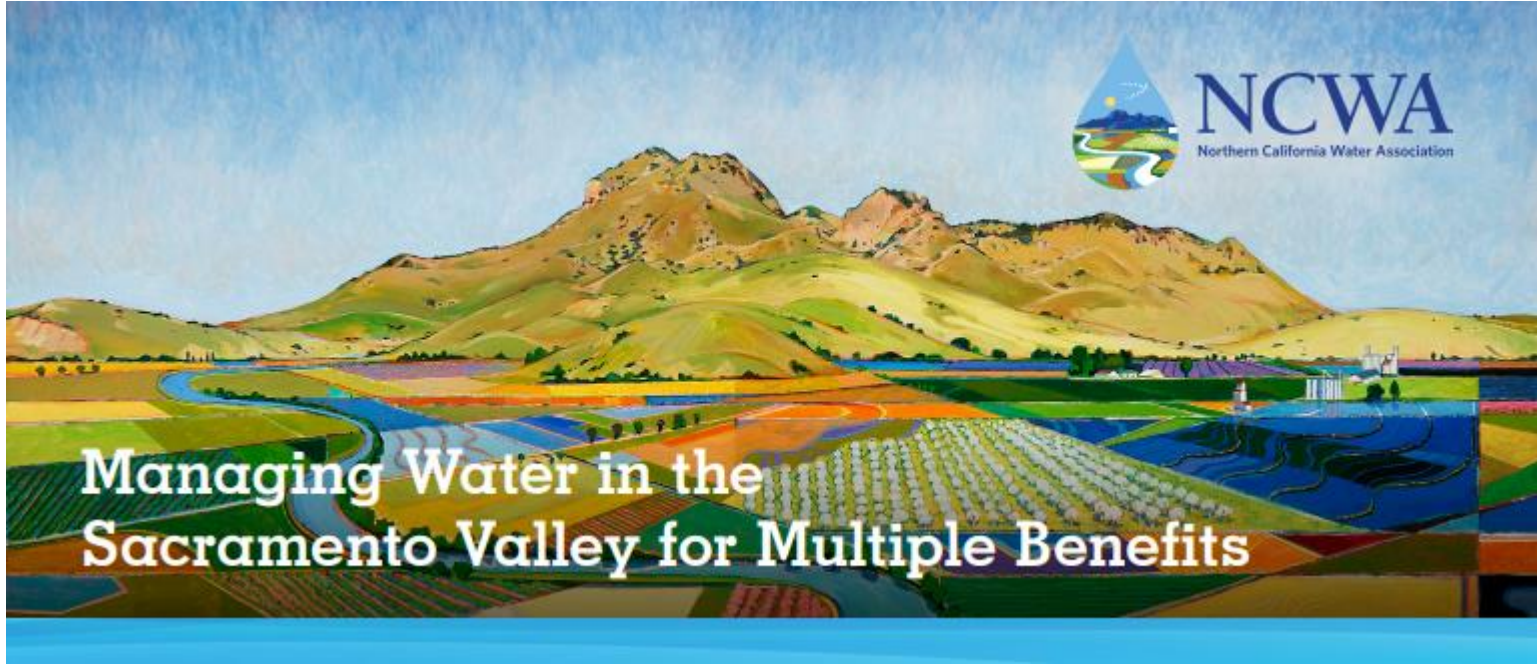
West Yost Associates Agreement

- Task 1 - Technical Advisory Support
- Task 2 - Well Permitting Support
- Task 3 - Areas of Special Concern Hydrogeologic Analysis

- Up to \$69,600

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Ivy Brittain, NCWA Legislative Affairs Director



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