YCFC&WCD BOARD OF DIRECTORS

March 5, 2024



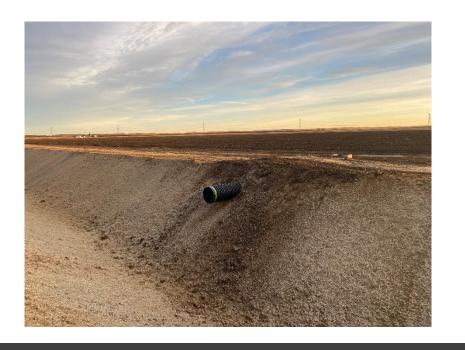
Adoption of the February 6, 2024 Regular Board Meeting Minutes

Open Forum

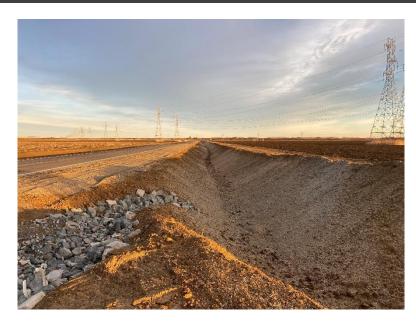
Guest introductions, unscheduled appearances and opportunity for public comment on non-agenda items

Adding Items to the Posted Agenda

January 2023 Storm Events Emergency Canal Repairs

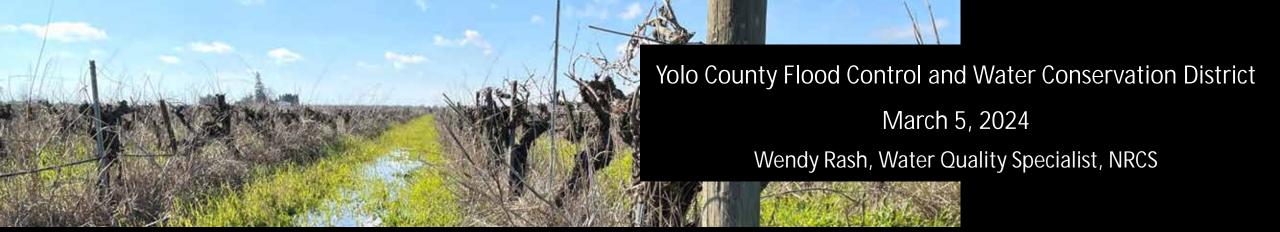








USDA NRCS Groundwater Recharge Pilot Program



Opportunities for On-Farm Groundwater Recharge





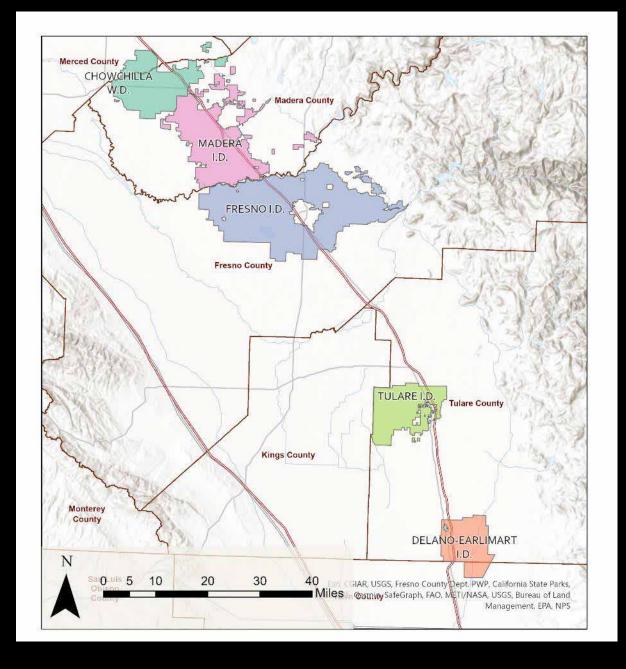
USDA is an equal opportunity provider, employer, and lender.

Types of farm-based recharge practices

- Developing soil that can absorb and infiltrate water
 - Capturing rainfall
- Intentional flooding of fields for infiltration
 - On-Farm Recharge or Flood- Managed Aquifer Recharge (Flood-MAR)
- Utilize surface water instead of groundwater
 - "In-lieu" recharge
- Put flood flows in dedicated non-crop areas to recharge
 - Groundwater Recharge Basin or Trench

USDA-NRCS Recharge Pilot

Part of the Environmental Quality Incentives Program



Two recharge interim practice options

Recharge basin or trench

 Permanent feature (15 years) – land dedicated to recharge

On-farm recharge

Management practice in tandem with agriculture





Recharge Pilot program

- Goal: Field test the interim practices
- \$1.4 million in Fiscal Year 2022, \$1.5 M in Fiscal 2023
- Limited area
- Extra requirements on pilot projects
 - Monitoring well
 - Water source and rights



BI | Soil Agricultural Groundwater Banking Index

Factors

Map Settings

This App

ınd

Agricultural Groundwater Banking (GBI) is a suitability index for ater recharge on agricultural land. I is based on five major factors ritical to successful agricultural ater banking: deep percolation, residence time, topography, limitations, and soil surface . More details can be found in the icle in California Agriculture.



Soil Agricultural Groundwater Banking Index (SAGBI)

1odesto

https://casoilresource.lawr.ucdavis.edu/sagbi/

Groundwater Recharge Assessment Tool (GRAT)

https://gratviewer.earthgenome.org/

Determining site suitability and ranking

Soil and subsurface infiltration capability

Agriculture and Natural Resources







What did producers do for basins?

- Review site history
- Need appropriative water rights or recharge water right
- Only Cropland and Associated land, no pasture or range
- Discuss how water would get to the field: need pipe, turnout or flow meters?
- Basins are paid per ac-ft of storage capacity



Monitoring during pilot program

- Nearby well to monitor for response
- Well Monitoring:
 - Pre-recharge and post-recharge
 - Water level measurements
 - Water analysis for nitrate-N and TDS

Plans can include supporting practices like:

Basin or Trench

- Structures for Water Control
 - Inlets, outlets
 - Flow meters
- Pre-treatment of water
 - Sediment basin
 - Coagulants (PAM)
 - Denitrifying Bioreactor

On-Farm Recharge

- Water conveyance
 - Pipeline
 - Field ditch
 - Pump
- Water control
 - Diversion/Dike
- Land shaping

These are conservation practices that can be paid for as part of an EQIP contract!

Financial assistance

Costs reimbursed AFTER contract is signed and design criteria are met

Recharge trench or basin (815): on e-time payment after construction

Trench: \$4.13 per cubic yard excavated

Basin: \$4,461.53 per AF storage capacity <10 ac ft 5 ac ft basin = \$22,308

Basin: \$4,189.81 per AF storage capacity >= 10 ac ft 20 ac ft basin = \$83,797

On farm recharge (817): annual payment each year field is inundated with water

\$115.54 per acre inundated* <60 acres 20 acres = \$2,311

\$105.33 per acre inundated* >=60 acres 80 acres = \$8,427

^{*}If weather conditions prevent inundation, this practice can't be performed or reimbursed

20 projects through NRCS Pilot for 2022-23

Basin or Trench

- Storage capacity ranged from 1 to 30 ac-ft
- NRCS funded excavation plus needed items like:
 - flow meter
 - pipe
 - valves and control boxes
 - berms
 - rip rap

On-farm recharge

- Over 3,000 acres
- NRCS funds flooding management plus needed items like:
 - flow meter
 - pipe
 - valves
 - berms

NRCS Pilot, Winter 2022-23

Basin or Trench

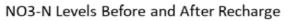
- Built 1 on-farm basin
- 18 ac footprint, 60 ac-ft capacity
- >150 ac-ft recharged

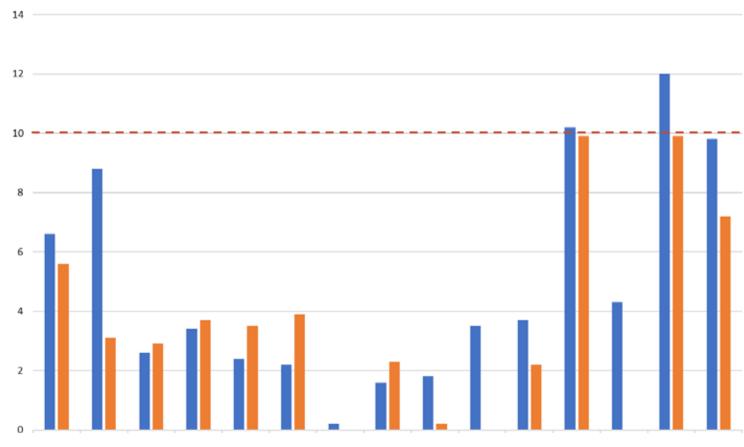
On-farm recharge

- Over 3,000 acres
- Averaged about 1 ac-ft/ac
- Ranged from 0.5 3.25 ac-ft/ac

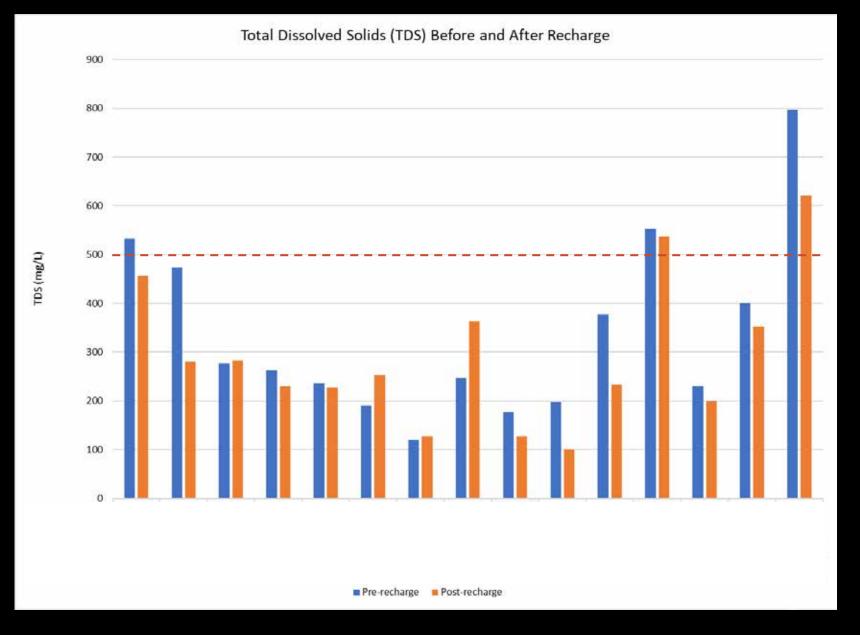
Water quality

Nitrate-Nitrogen Levels (mg/L)





Water quality



Pilot program continuing

- Signups held for Winter 23-24, and Winter 24-25
- Pre-recharge monitoring completed Fall 2023
- Projects ongoing where water is available

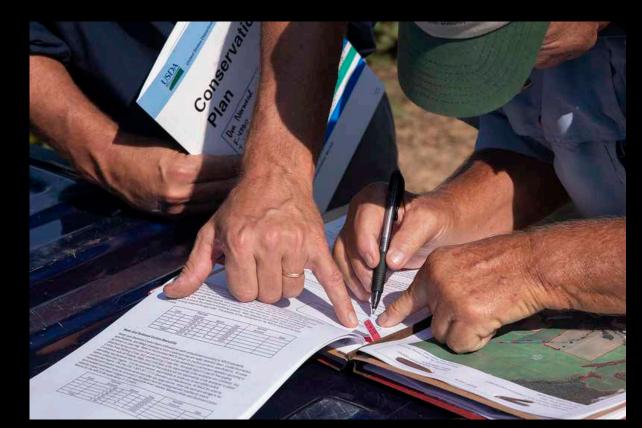


Photo: USDA

NRCS Next Steps

- Pilot program continues through Winter 24-25
 - Implement projects and monitor
 - Still not statewide
- Review pilot program data- National Headquarters
- Adopt groundwater recharge conservation practices into Field Office Tech Guide- National Headquarters
- Groundwater recharge conservation practices available for financial assistance (EQIP funding) statewide
 - Maybe beginning October 2024 (Fiscal Year 2025)



YSGA Update

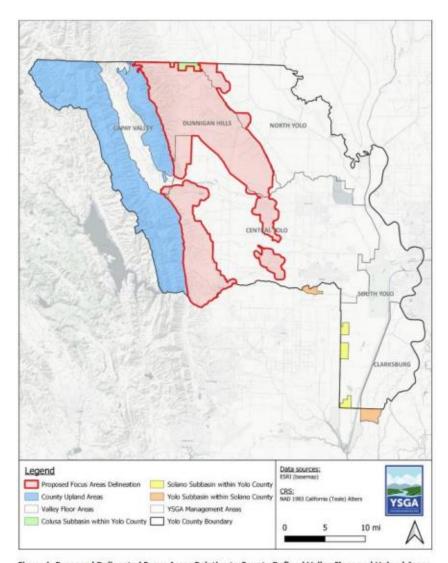


Figure 1. Proposed Delineated Focus Areas Relative to County Defined Valley Floor and Upland Areas.

YSGA Update

- Well Permit Review Procedures reviewed at November 20 and January 22 Board meeting
- Requested staff reconsider Hydrogeology Report requirement sequencing to potentially offer a two-stage process
 - Provide economies of scale (lower applicant expense)
 - Incorporate practical considerations (high-impact versus low-impact wells)
- YSGA DCPC meeting on March 11, 2024
- YSGA BOD meeting March 18, 2024
- Public comment process after March 18
- Yolo County BOS meeting April 9, 2024

Directors' Reports

Report on Meetings and Conferences Attended During the Prior Month on Behalf of the District

i. NCWA Meetings – PPIC and Water Leaders (2/26 and 2/28) ii. Farmers' Council Meeting (2/14)

General Manager's Report

- Water Conditions Report
- Financial Report Summary
- Capital Improvement Program
- General Activities
- Upcoming Events

Current Water Conditions (03-05-24)

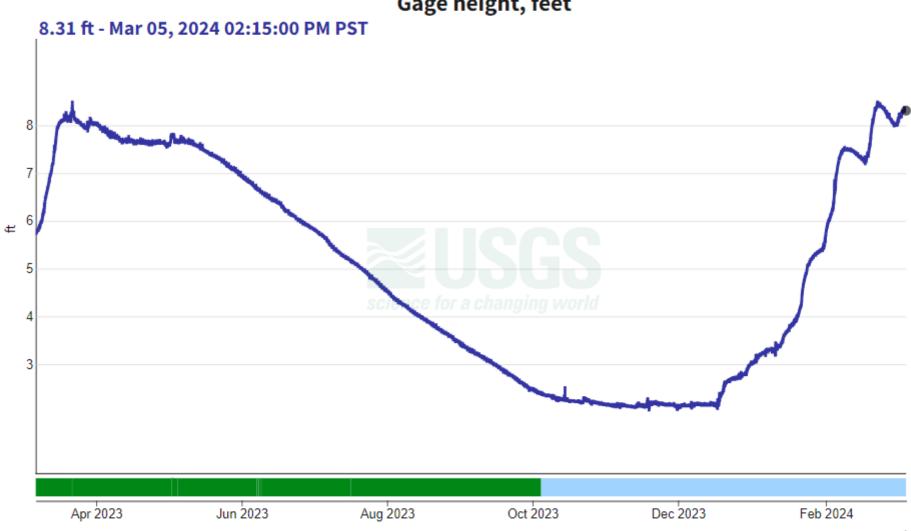
	Elevation	<u>Available</u>	2023
Clear Lake			
March 5	8.35'	150,000 AF	5.54' (64,578 AF)
February 5	6.99'	125,967 AF	
 Total Difference 	1.36'	24,033 AF	
Indian Valley Reservoir			
March 5	1,467.49'	234,200 AF	1,433.14' (126,900 AF)
 February 5 	1,453.98'	188,500 AF	
 Total Difference 	13.51'	45,700 AF	

Facility	Precipitation (10/1/23 – 3/5/24)	
Cache Creek Dam	25.18"	
Indian Valley Reservoir	26.63"	
Headquarters	17.12"	

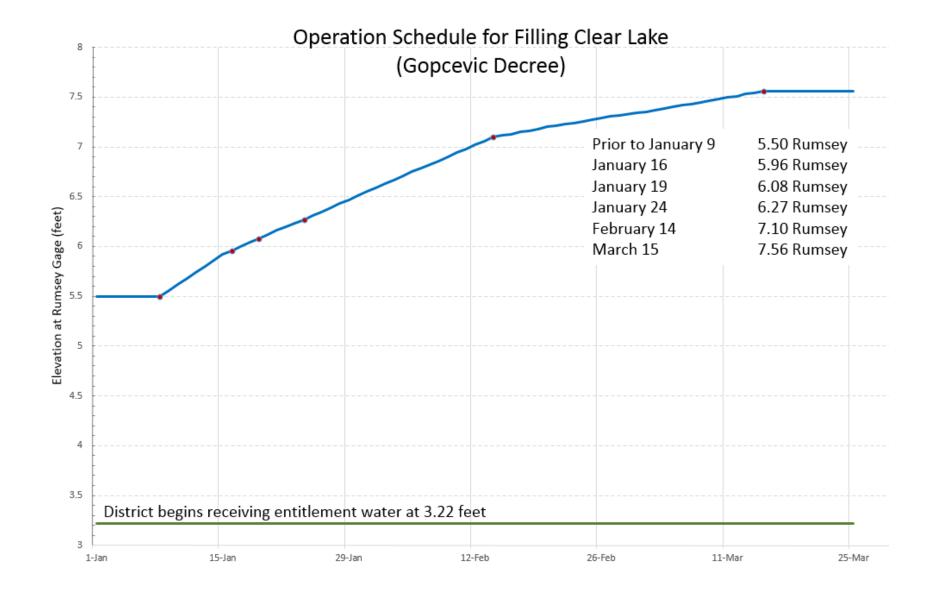


Clear LK a Lakeport CA - 11450000

March 6, 2023 - March 5, 2024 Gage height, feet



Observation / Forecast Time (Pacific Local Time)



Current Water Conditions (03-05-24)

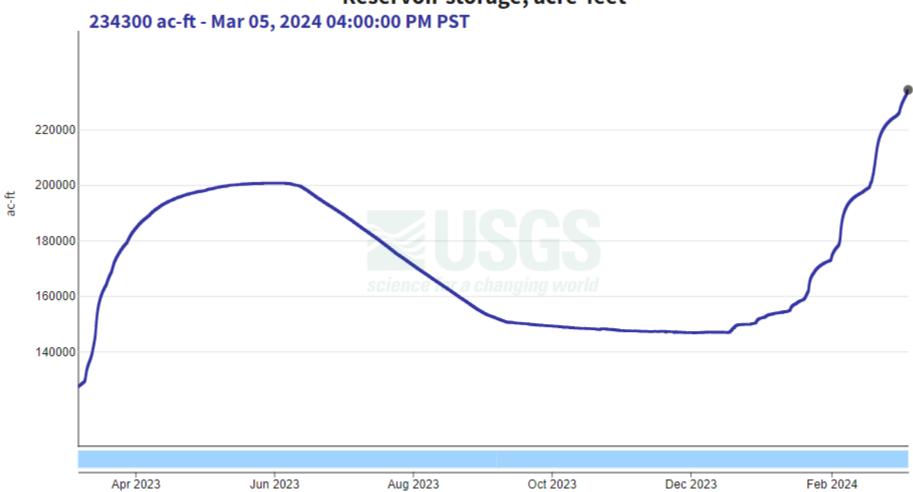
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	8.35' 6.99' 1.36' 1,467.49' 1,453.98'	8.35' 150,000 AF 6.99' 125,967 AF 1.36' 24,033 AF 1,467.49' 234,200 AF 1,453.98' 188,500 AF

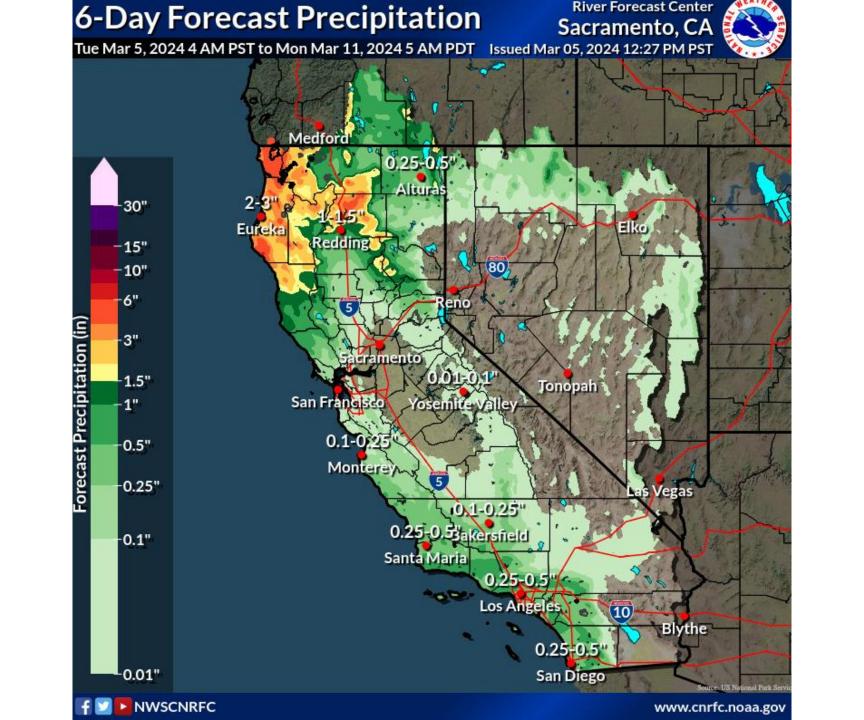
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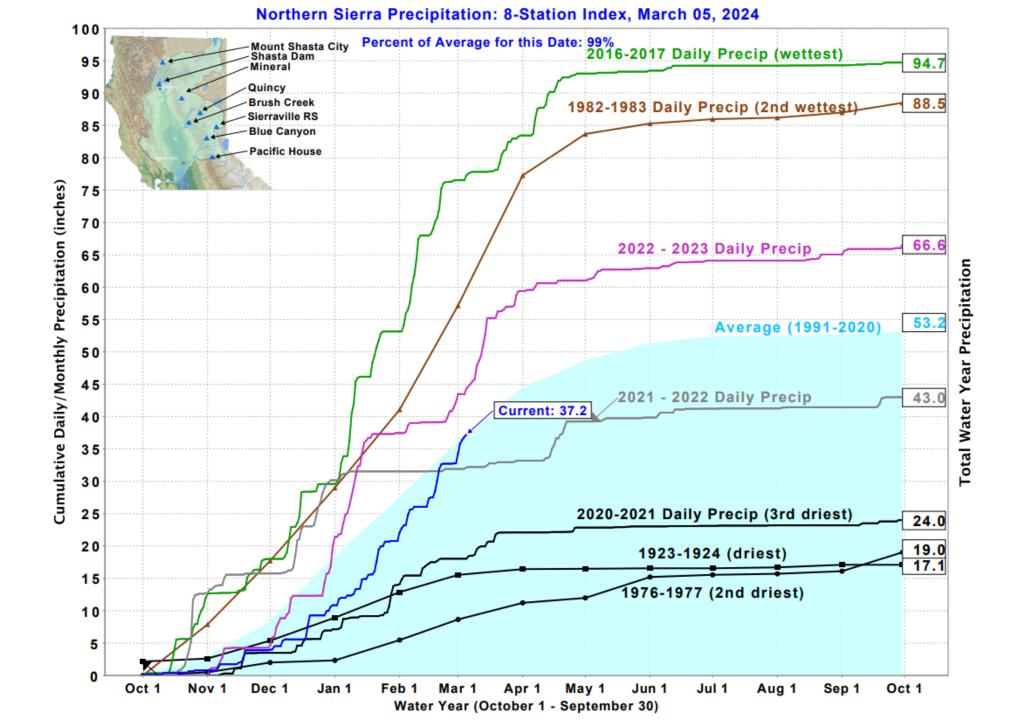


Indian Valley Res a Clearlake Oaks CA - 11451290

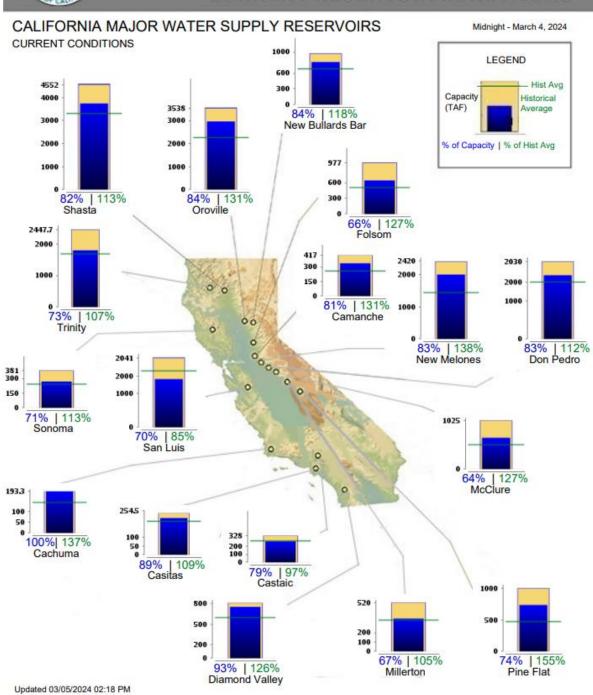
March 6, 2023 - March 5, 2024 **Reservoir storage, acre-feet**

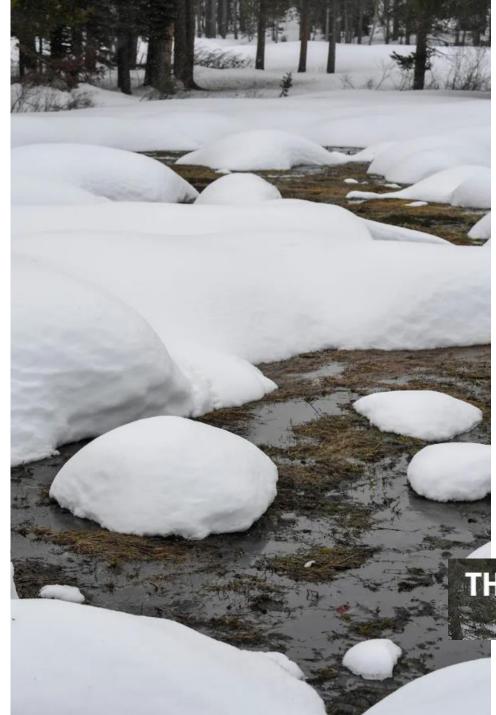






CURRENT RESERVOIR CONDITIONS

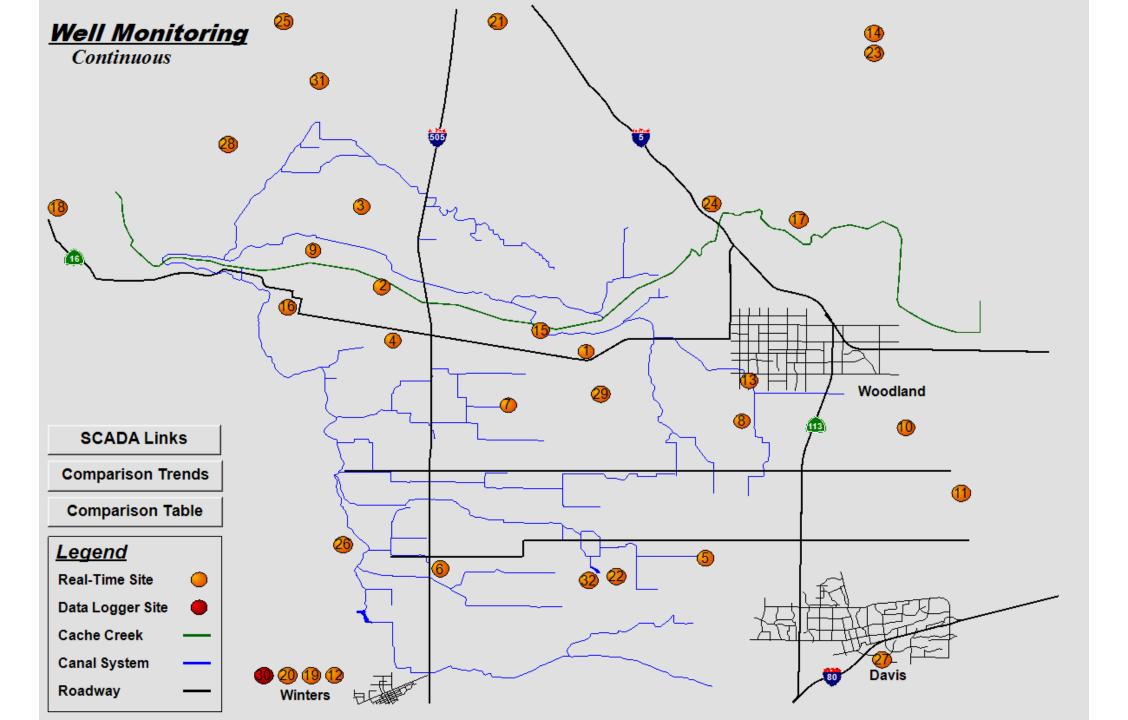


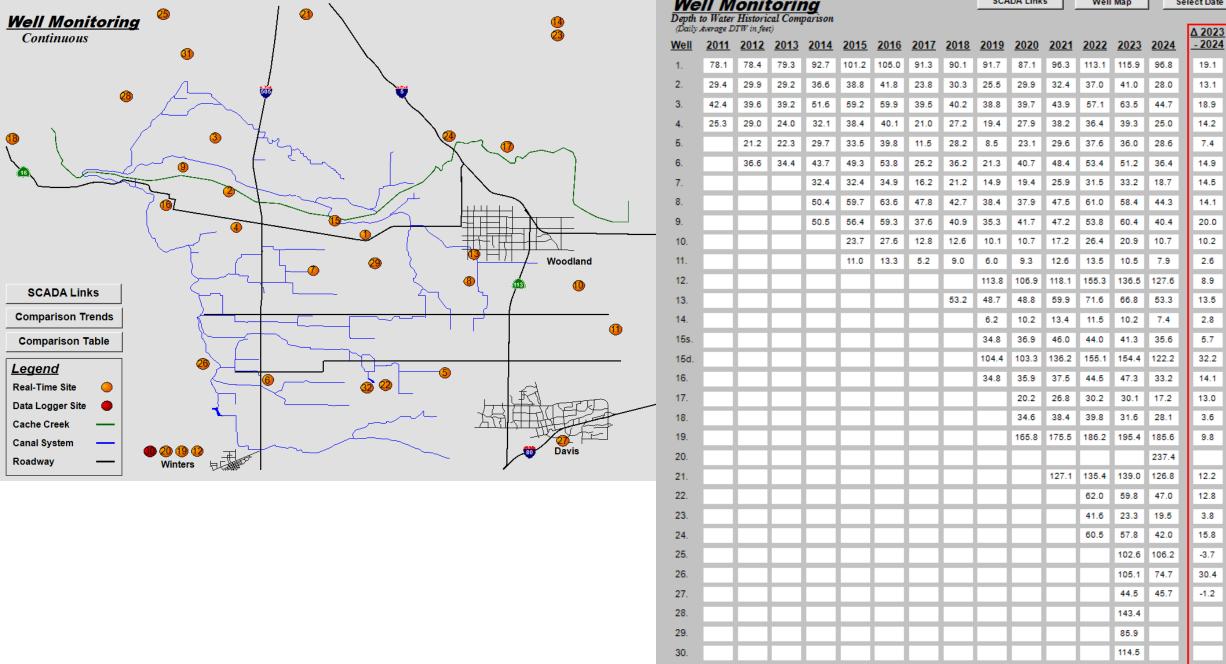


2/29/24 Snow Survey
Snow depth = 47.5"
Snow water equivalent = 18"
Statewide snowpack is 77% of average

Next survey tentatively scheduled for 4/2/24

THIS JUST IN ... March Snow Survey Shows Improvement for Sierra Snowpack





31.

32.

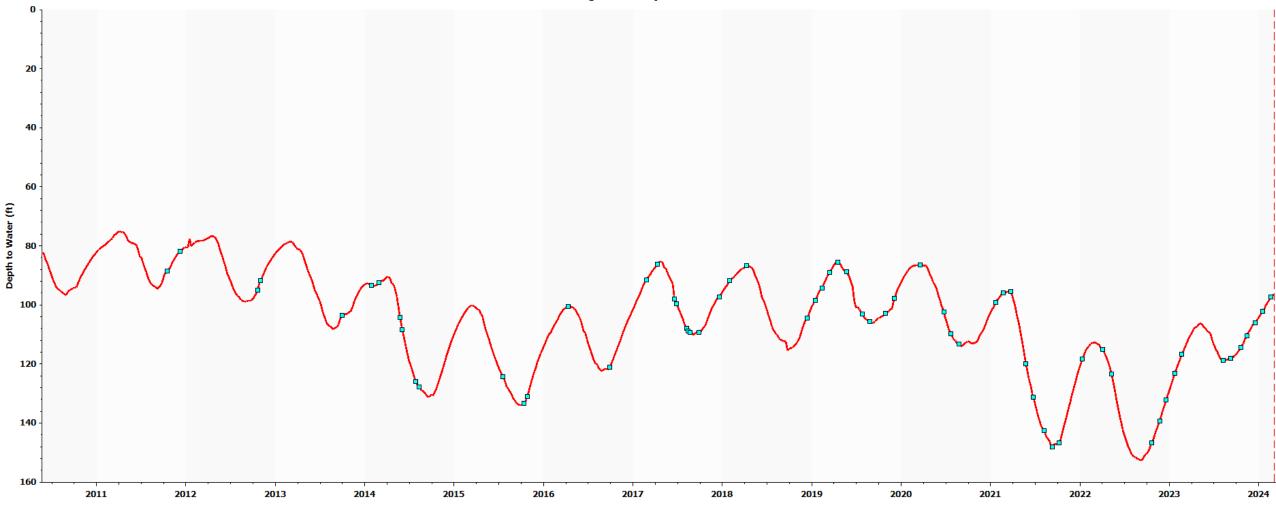
Δ 2015 - 2024 <u>- 2024</u> 19.1 4.4 10.8 13.1 14.5 18.9 14.2 13.4 7.4 4.9 14.9 13.0 13.7 14.5 15.4 14.1 20.0 16.0 13.0 10.2 2.6 3.2 8.9 13.5 2.8 5.7 32.2 14.1 13.0 3.6 9.8 12.2 12.8 3.8 15.8 -3.7 30.4 -1.2 20.1

213.3

193.1

106.3

1. HQ Well Depth to Water



Depth to Water

2/5/23: 121.9 feet 3/5/23: 115.9 feet

 Δ 6.0 feet

Depth to Water

2/5/24: 101.8 feet

3/5/24: 96.8 feet

Δ 5.0 feet

Preliminary Financial Report

Highlights as of February 29, 2024

Preliminary Budget Summary as of 02/29/2024

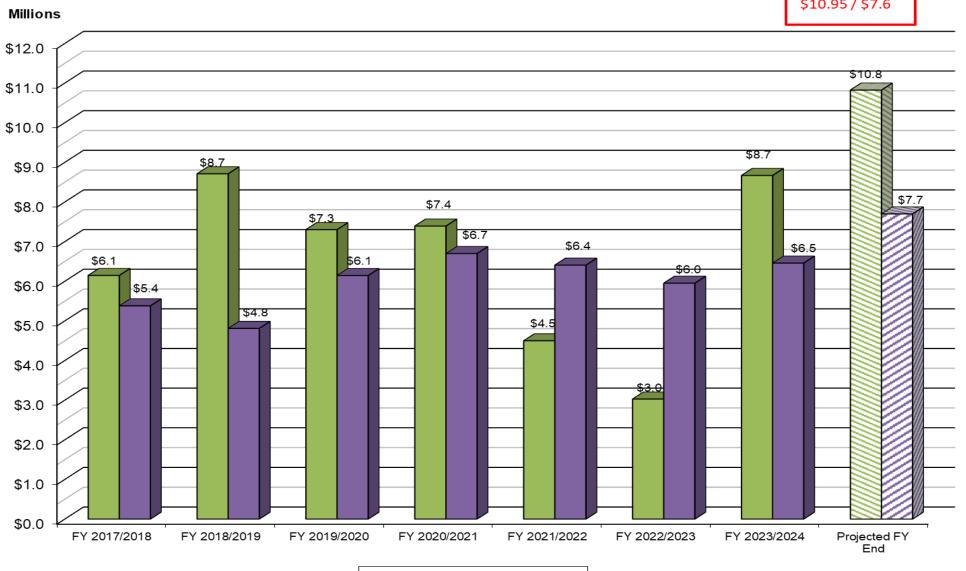
Key Revenue Drivers	Year-to-Date	Budget	Difference	
Agricultural Water Sales	\$5,760,700	\$6,217,700	00 (\$457,000)	
Non-Agricultural (M&I) Water Sales	\$242,600	\$343,300	(\$100,700)	
Property Taxes *includes Special Property Tax Assessment	\$1,558,000	\$2,586,400	(\$1,028,400)	
IV Dam Hydro (less fees)	\$283,100	\$350,000	(\$66,900)	
Other Revenue	\$824,400	\$1,456,700	(\$632,300)	
Shared Services Revenue	\$335,000	\$315,200	\$19,800	
YSGA Reimbursements	\$200,600	\$250,000	(\$49,400)	
Interest	\$181,700	\$120,000	\$61,700	
Other (includes FEMA)	\$107,100	\$771,500	(\$664,400)	
TOTAL REVENUE	\$8,668,800	\$10,954,100	(\$2,285,300)	

Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$1,981,200	\$1,343,100	\$638,100
General Administration	\$2,016,700	\$2,846,900	(\$830,200)
Other Expenses	\$2,459,700	\$3,451,900	(\$992,200)
TOTAL EXPENSES	\$6,457,600	\$7,641,900	(\$1,184,300)

Preliminary Financial Report

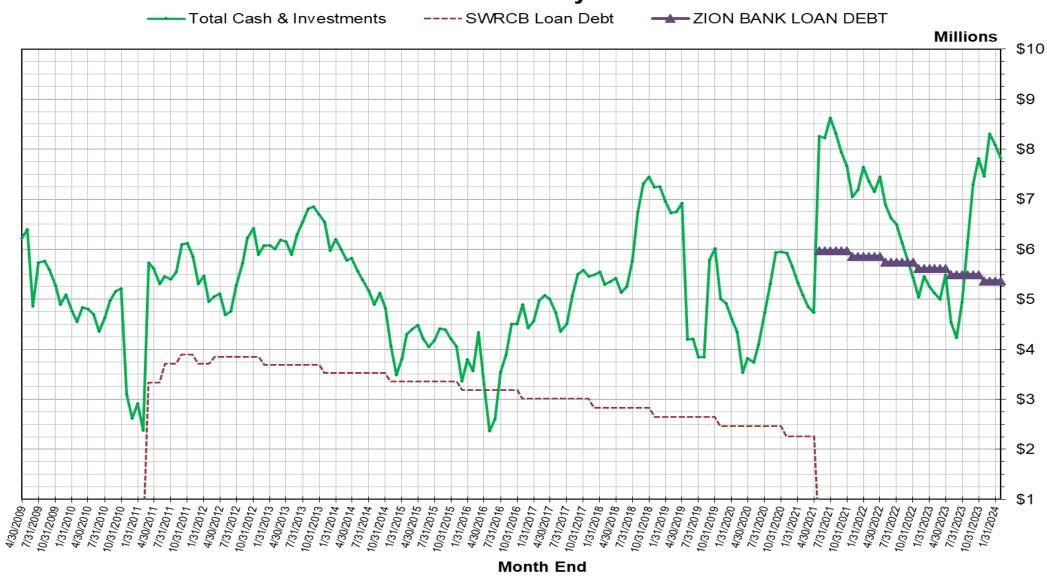
Comparison of Actual Revenue vs. Actual Expense

Original Budget \$10.95 / \$7.6



Preliminary Financial Report

Cash History



Breakdown of Cash Accounts 2/29/2024

	Rate	Balance		Market	
CASH					
River City Bank Business Checking	0.00%	125,327		125,327	
River City Bank Public Fund Money Market Plus 1410	4.04%	1,501,547		1,501,547	
River City Bank Public Fund Money Market - CIP - 4429	4.04%	3,090,933		3,090,933	
River City Bank - Depository Agent Fund	4.04%	374,777	374,777		
Yolo County Treasurer - Fund #6975 (old #462)		-		-	
Petty Cash		350		350	
TOTAL		\$ 5,092,933	\$	5,092,933	
TEMPORARY INVESTMENTS					
LAIF - YCFC Enterprise Fund	4.15%	428,644		428,644	
LAIF - Drought Reserve Fund	4.15%	1,597,000		1,597,000	
LAIF - Capital Recovery Fund	4.15%	144,000		144,000	
LAIF - COVID Relief Funds	4.15%	567,013		567,013	
TOTAL		\$ 2,736,657	\$	2,736,657	
TOTAL CASH AND INVESTMENTS		\$ 7,829,590	\$	7,829,590	

Strategic Planning Process – Stantec's Transition Planning Memo

- Foundational document created by interviewing stakeholders on District
 - Strengths/weaknesses
 - Issues expected in 5-10 years
 - Opportunities/wild cards
 - Take Forward/Leave Behind

- Strategic Plan Committee Meeting Thursday, March 14
- Strategic Plan process overview presentation to Board on April 2, 2024
- Stakeholder interviews: April/May 2024
- Board workshop: May/June 2024

Weaknesses

- Aging Infrastructure/ Systems
- Deferred Maintenance
- Fluctuating Revenue
- Workforce Realignment
- District Office Building
- Skills Deficiency
- Hardened Demand

Issues Expected in Next 5-10 Years

- Internal systems / new technology
- Addressing Training Deficiencies
- Managing increasing regulation
- Changing climate patterns
- Personnel management

WILD CARDS

Increased system variability – prolonged drought

Surface/ Groundwater interrelationship

Altered Weather Patterns (Flashy, Extreme, and Points in Time)

Unknowns (Watershed) / Fire

Catastrophic Infrastructure Failure

Regulatory

Change in use

Take Forward/Leave Behind

Keep

- Collaboration
- Investment in Technology
- Engineering expertise
- Stewardship
- Focus on the prize
- Fiscal Responsibility

Leave

- Delivery Rules
- Short-handed

Planning for Capital Jobs

<u>Capay Dam Bladder Replacement Project – Fall 2024</u>

FY 23/24 Planning Activities Related to Large Capital Jobs

Hungry Hollow Canal – Pipeline Extension Project

Automated Trash System at Winters Heading and West Adams Canal



2024 Temporary Permit Application for Diverting Excess Flows to Groundwater Recharge

- Diversion season requested: January 1 April 30, 2024
- Diversions up to 600 cfs; max of 72,000 AF
- Maintain ≥ 50 cfs in Cache Creek at Yolo (100 cfs in April)
- Divert "excess" stormwater into canals and onto fields Excess Delta Conditions
- Fields must be part of Yolo County Irrigated Lands Program

- Submitted application to State Water Board 12/14/23 // Processed by 1/12/24 // as of 3/5/24 still not issued
 - Central Valley Regional Board and USBR had no comments
 - Downstream water right holder vehemently opposed: Brad Howald (Howald Farms)
 - State Water Contractors required "Delta in Excess" revisions

General Activities (February 7-March 5)

PROJECTS:

- Storms Response
- Automated Trash Rack Site Preparation
- Voluntary Agreement Process
- Water Right Reporting
- Finance Director Solicitation and Interview Preparation
- 2023 Storm Damage FEMA Reimbursement Process
- IVR Power Supply Issue 115kV Intertie Substation Oil Circuit Breaker Upgrade
- Indian Valley Reservoir Emergency Action Plan Updates and Exercise
- FERC Part 12D Comprehensive Assessment
- YSGA Well Permitting Review; Project Development; Outreach; GSP Implementation; Groundwater Monitoring Program Improvements; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach
- Outreach with various agencies on District's Recharge Program
- Capital Projects small infrastructure projects
- Various Private Jobs
- Drought Planning
- Creek Spraying for CCC and Chipper Program for Yolo RCD
- Vegetation Management (MERCSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)
- Shared Services: SCWA, private jobs, spraying, etc.
- Encroachment Permits, Easement Research, Misc. Water Rights Investigations

General Activities (February 7-March 5)

OUTREACH:

- 1. ACWA SGMA Implementation Subcommittee (February 8)
- 2. Meeting with Valley Clean Energy (February 8)
- 3. ACWA State Legislative Committee (February 9 and March 1)
- 4. NCWA Bay-Delta Working Group (February 12)
- 5. YSGA: Meeting with Supervisor Provenza (February 12)
- Yolo County Airport (Emergency Access for Rolling Acres)
 (February 13)
- 7. District Farmers' Council Meeting (February 14)
- Water Data Consortium Water Accounting Platform Meeting (February 15)
- California Irrigation Institute Board Meeting and 2024 Conference (February 15 and 26-27)
- Meeting with City of Woodland: Summertime Flooding Issue (February 20)
- 11. Meeting with Deputy Sheila Allen (February 21)
- 12. YSGA EC Meeting (February 21)
- 13. Yolo County Financial Oversight Committee (February 22)

- Meeting with Yolo Habitat Conservation to Discuss Creek
 Easements (February 23)
- 15. Nitrate Control Program Meetings (February 23 and March 1)
- 16. Meeting with Valley Clean Energy (February 23)
- 17. NCWA/PPIC Coordination: A Day in the Sacramento Valley (February 26)
- 18. NCWA Water Leaders (February 27)
- 19. YSGA Meeting with Yolo County DEH (February 29)

Upcoming Meetings & Events

- 1. NCWA Annual Meeting (March 8)
- 2. Rolling Acres Meeting (March 13)
- 3. YSGA Board of Directors Meeting (March 18)
- 4. Yolo County Board of Supervisors: Well Permit Discussion (April 9)
- 5. ACWA Spring 2024 Conference (May 7-9)
- 6. GRA/ACWA SGMA Implementation Workshop (June 5-6)

Agenda Item #9

General Discussion

Opportunity for Board Members to ask questions for clarification, provide information to staff, request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda.

Agenda Item #10

Payment of Bills

Consider the approval and payment of the bills (Checks #63288-63299)

0000063288	\$48,258,32	ACMA / IDIA EMD	OVEE BENEE!	rs 3/5/2		
0000063288	\$40,230.32	ACWA / JPIA EMP 0702014 MAR 2024	3/1/24	MONTHLY MEDICAL, VISION, LIFE,		48.258.32
		0702014 MARK 2024	0/1/24	morrier medione, violott, en e,		40,200.02
0000063289	\$6,469.80	BARTKIEWICZ KRONICK & SHANAHAN 3/5/24			4	
		1650-0010 JAN 2024	2/7/24	CLEAR LAKE LEGAL		431.25
		1650-0020 JAN 2024	2/7/24	DELTA ISSUES		3,023.55
		1650.0001 JAN 2024	2/7/24	GENERAL LEGAL		3,015.00
0000063290	\$5,778.20	DOUBLE "M" TRU	•	3/5/24		4 404 00
		75648	2/22/24	PO6798 PLP BANK REPAIRS STORM		1,164.00
		75649	2/22/24	PO6798 PLP BANK REPAIRS STORM DAMAGE		2,327.48
		75650	2/22/24	PO6798 PLP BANK REPAIRS STORM	DAMAGE	2,286.72
0000063291	\$3,833.25	GEI CONSULTANT	S. INC.	3/5/2	4	
		3147401	2/8/24	PROJ.2304186 - IV DAM FERC PART	12D	3,833.25
0000063292	\$3,573.76	INTERSTATE OIL O	OMPANY	3/5/2	4	
		T625113-IN	2/23/24	PO6748 1000GAL GASOLINE		3,573.76
0000063293	\$137,466.98	LAKE COUNTY TA	X COLLECTOR	3/5/2	4	
		2023-2024 2ND INSTAL	3/1/24	2ND INSTALL 2023/2024 LAKE CO P	PTY TAX	137,466.98
0000063294	\$21,473.75	MBK ENGINEERS		3/5/2	4	
		13471	2/16/24	WATER RIGHT ASSISTANCE		18,435.25
		13472	2/16/24	5325.1 GW RECHARGE WAA	Reimburseable	3,038.50
0000063295	\$4,928.46	NUTRIEN AG SOLI	ITIONS INC	INC 3/5/24		
000000200	V1,525.15	53258025	2/8/24	PO6845 ESPLANADE, MILESTONE	•	4.928.46
		00200020	210721	1 55515 251 2111152, 111225 1 5112		1,020.10
0000063296	\$3,000.00	PACIFIC GAS & ELECTRIC COMPANY 3/5/24		4		
		0008274007-7	2/23/24	PROJ# P000255724 EP23800 CA HW	Y 16 CAPAY	3,000.00
0000063297	\$14,285.25	SI ATE CECTECUS	UCAL CONSULT	ANTS 3/5/2		
0000003297	\$14,205.25	SLATE GEOTECHN 2299	2/13/24	23-007-01 IVD SEEPAGE COLLECTION	•	14.285.25
		2299	2/13/24	23-007-01 IVD SEEPAGE COLLECTION	ON DESIGN	14,265.25
0000063298	\$27,033.75	U.S. GEOLOGICAL	SURVEY	3/5/2	4	
		91139645	2/8/24	JOINT FUNDING AGREEMENT END	NG 09/30/24	27,033.75
0000063299	\$4,203.60	WELLNTEL, INC.		3/5/2		
		2894	2/27/24	PO6887 ANALYTICS DASHBOARD D	ATA, ANN FEE	4,203.60

\$ 280,305.12

\$ 280,305.12

Agenda Item #11

Closed Session: Bay-Delta

Conference with legal counsel for existing administrative proceeding and anticipated litigation/significant exposure to litigation pursuant to Government Code 54956.9, subsections (d)(1) and (d)(2) – State Water Resources Control Board Bay/Delta Plan update proceeding.

Closed Session Report

Agenda Item #12 Adjourn