

YCFC&WCD BOARD OF DIRECTORS

April 5, 2022



Y O L O C O U N T Y
FLOOD CONTROL &
WATER CONSERVATION
DISTRICT

Agenda Item #1

Re-Authorize Teleconference Meetings as a
Result of COVID-19 Emergency

Staff recommend that the Board

1) find that, as a result of the COVID-19 emergency, meeting in person would present imminent risks to health and safety of attendees,

AND

2) hold meetings by teleconference as authorized by § 54953 of Government Code.

Agenda Item #2

Adoption of the
March 1, 2022 Regular and March 14, 2022
Special Board Meetings' Minutes

Agenda Item #3

Open Forum

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

Agenda Item #4

Adding Items to the
Posted Agenda

Agenda Item #5

RD 2035 Conaway Ranch Salmon
Habitat Floodplain Reactivation
Project and West Side Levee
Project

RD 2035 Conaway Ranch Salmon Habitat Floodplain Reactivation Proposals and West Side Levee Proposal

Presented to the YCFC&WCD Board of Directors Meeting

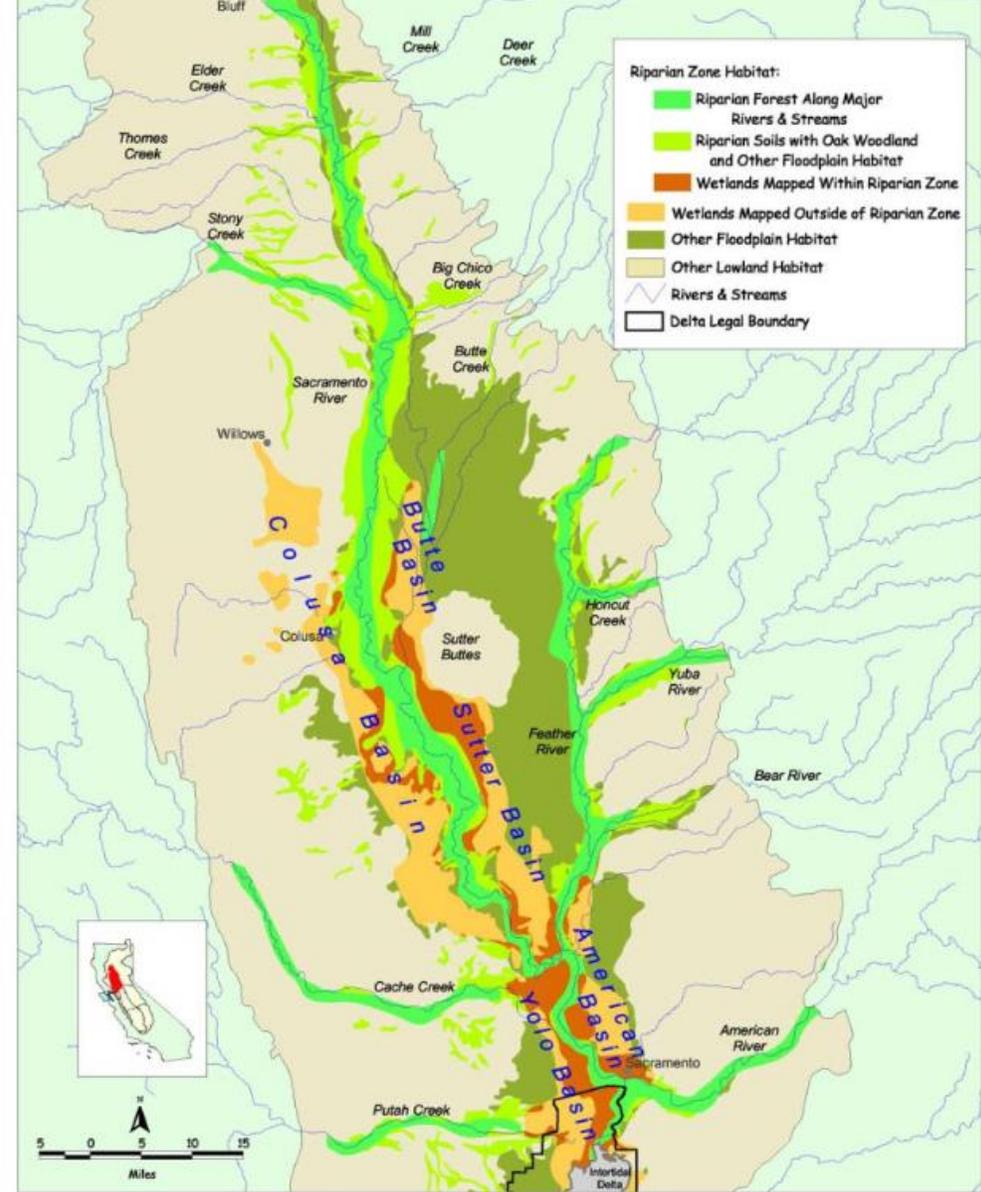
April 5, 2022

HISTORICALLY:

- Much of the Sacramento Valley was wetland and riparian habitat



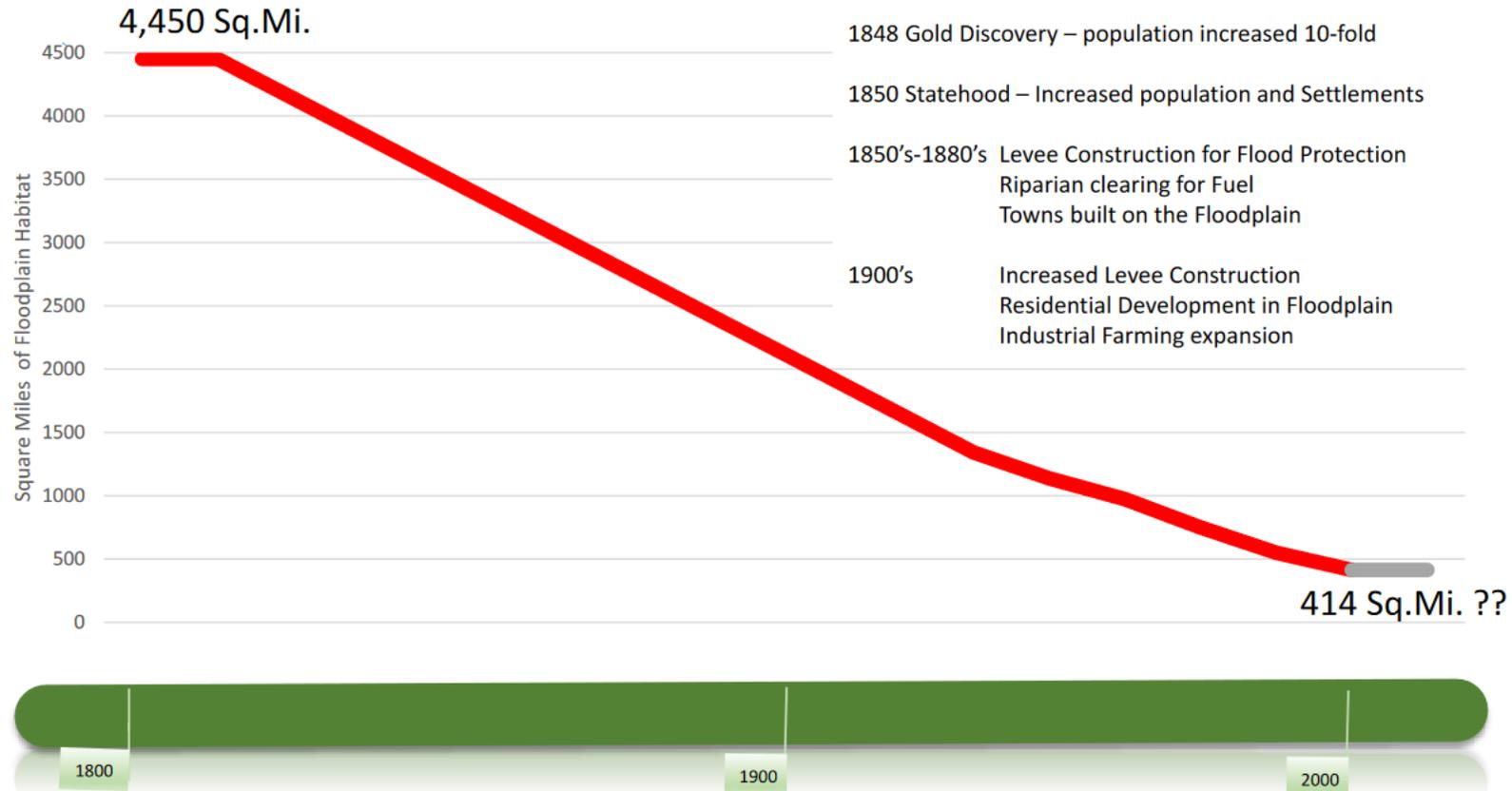
California State Library



Sacramento Valley Historical River Floodplain Ecosystem

Historical Extent of Central Valley Floodplains

Floodplain Losses from "Battling the Inland Sea:
Public Policy, and the Sacramento Valley
Robert Kelley 1989



Rearing habitat matters



Courtesy of Carson Jeffres

River

4 days difference in age

Managed Floodplain

March 25, 2016



Vol. 487: 163–175, 2013
doi: 10.3354/meps10353

MARINE ECOLOGY PROGRESS SERIES
Mar Ecol Prog Ser

Published July 30

FREE
ACCESS

Size, growth, and origin-dependent mortality
of juvenile Chinook salmon *Oncorhynchus*
tshawytscha during early ocean residence

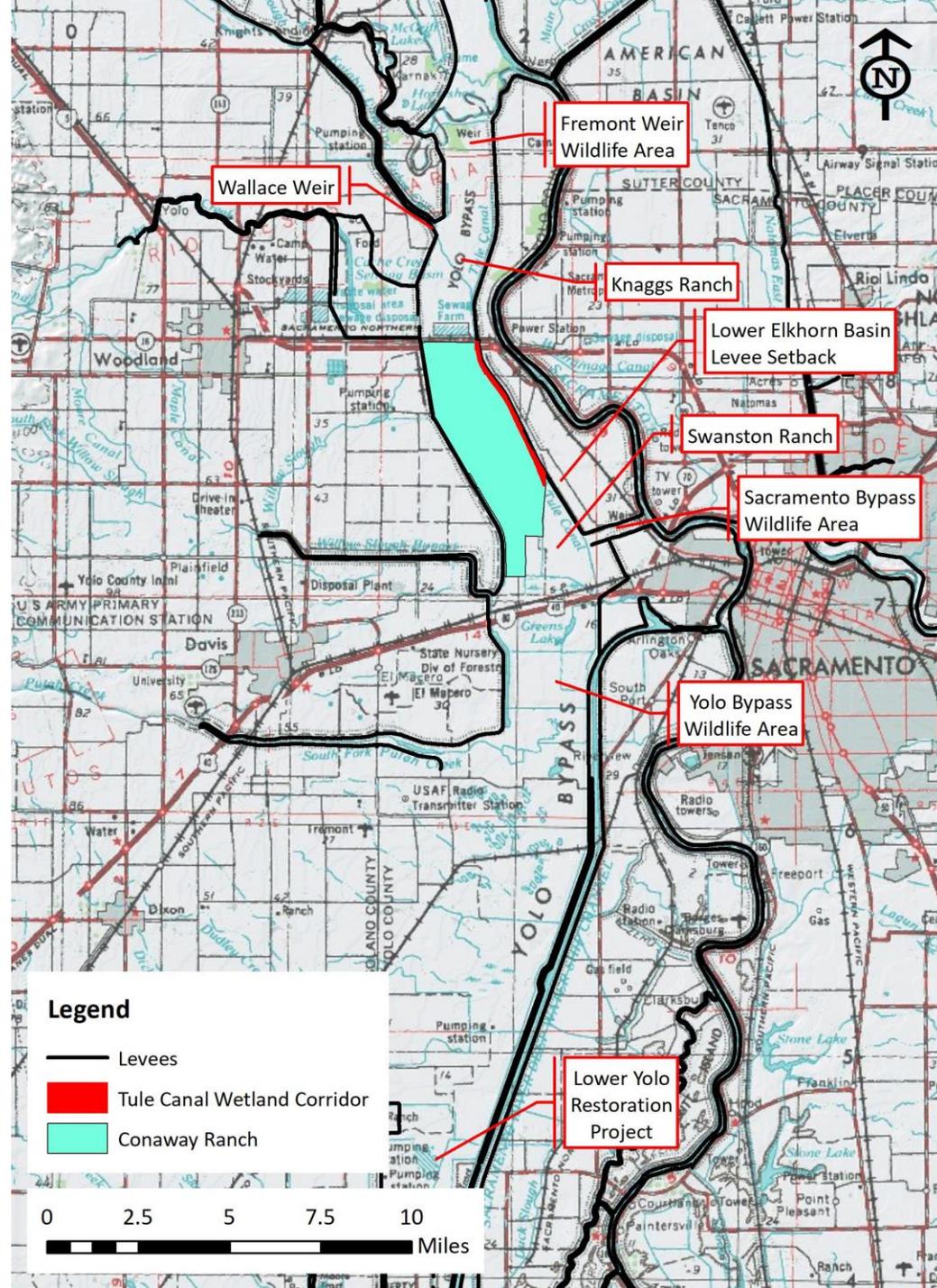
Lindsay E. Woodson^{1,*}, Brian K. Wells¹, Peter K. Weber², R. Bruce MacFarlane¹,
George E. Whitman³, Rachel C. Johnson^{3,4}

Freshwater growth & condition
influences early ocean survival
(Woodson et al 2013)

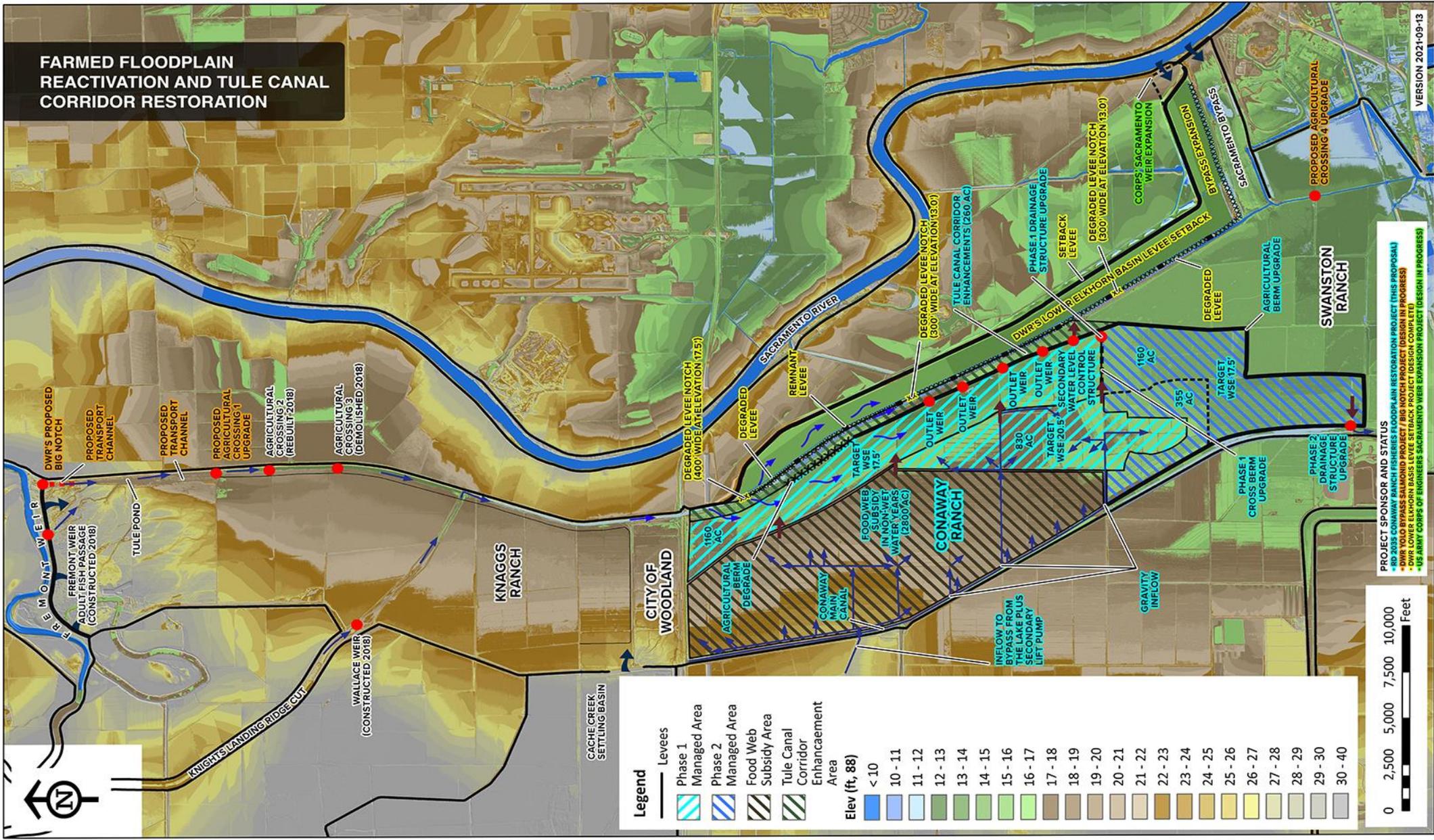
Full Conaway Integrated Floodplain Reactivation Proposal

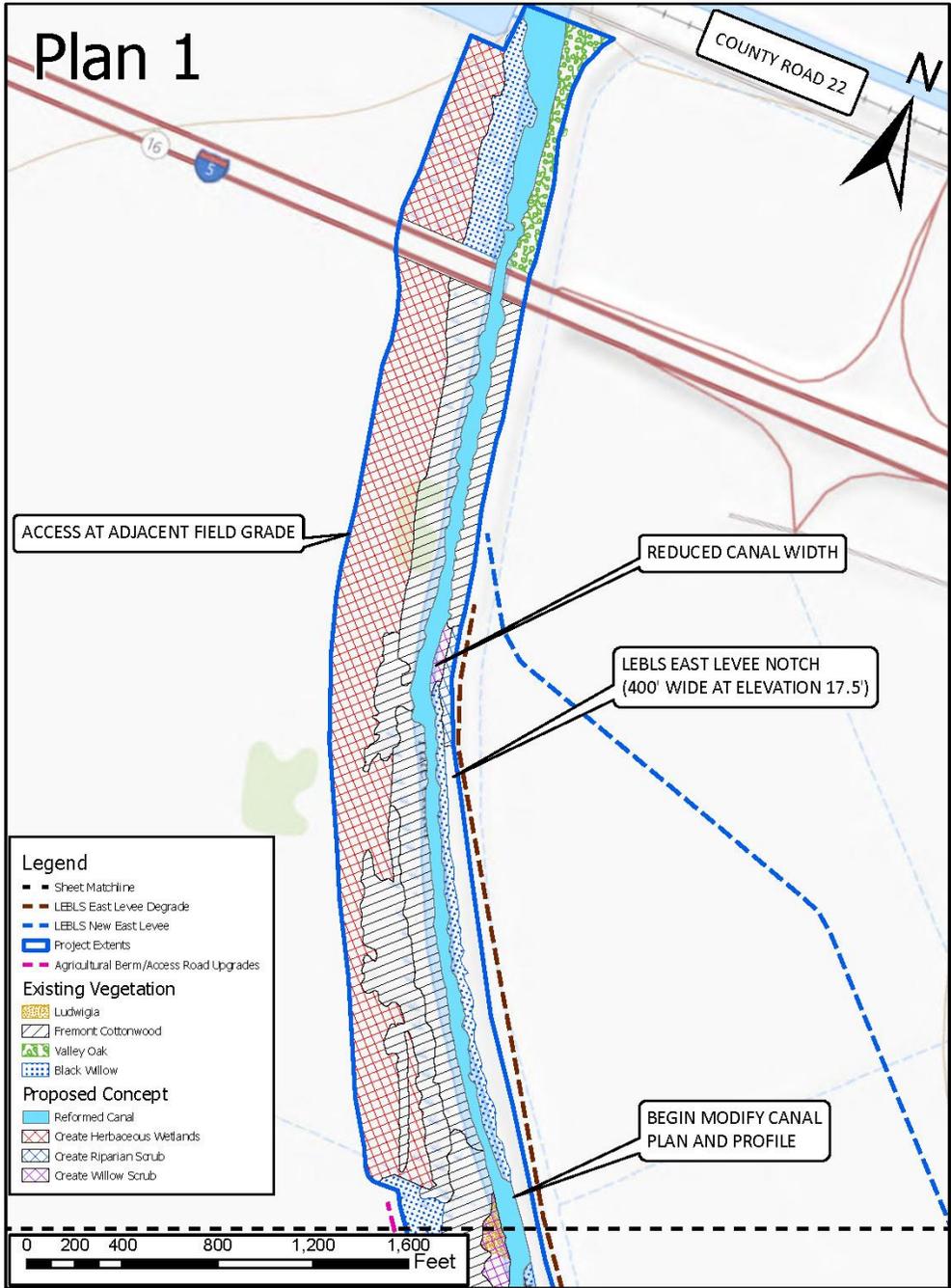
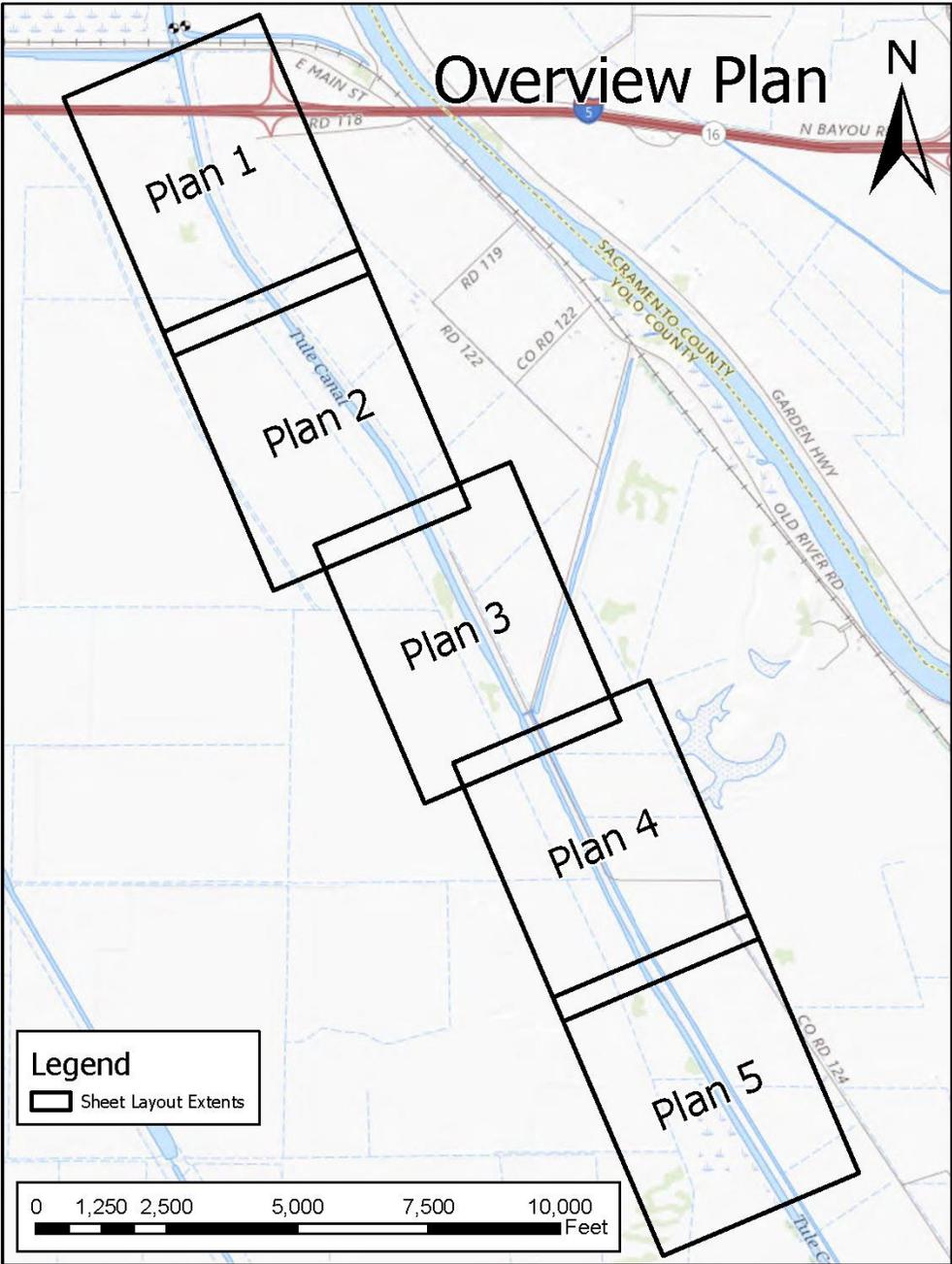
All three reactivation/restoration modes in one project:

- Floodplain reactivation with fish feeding and rearing
- Floodplain reactivation for fish food production
- Permanent wetland re-creation for year round fish, waterfowl and other aquatic species

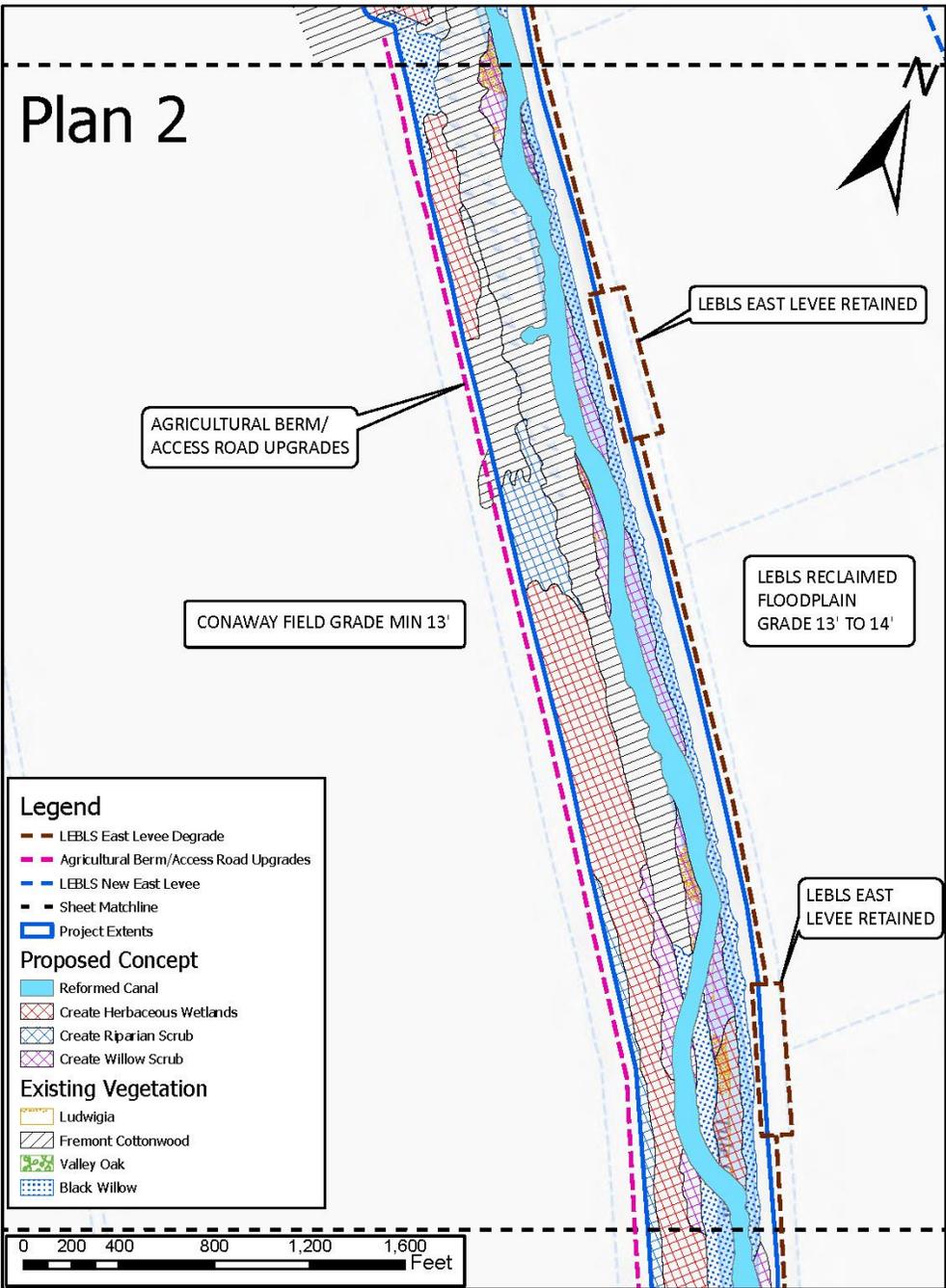


FARMED FLOODPLAIN REACTIVATION AND TULE CANAL CORRIDOR RESTORATION

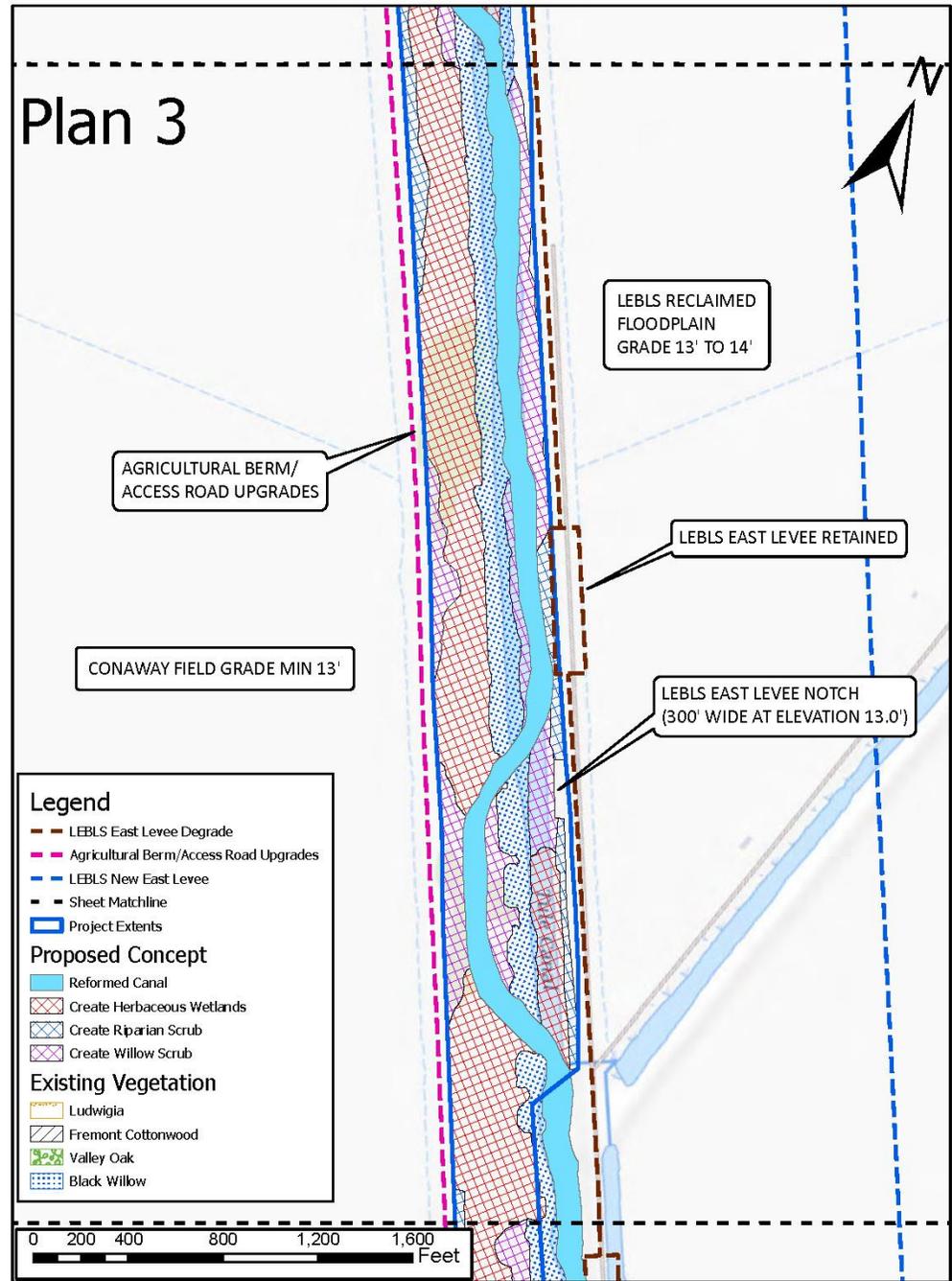




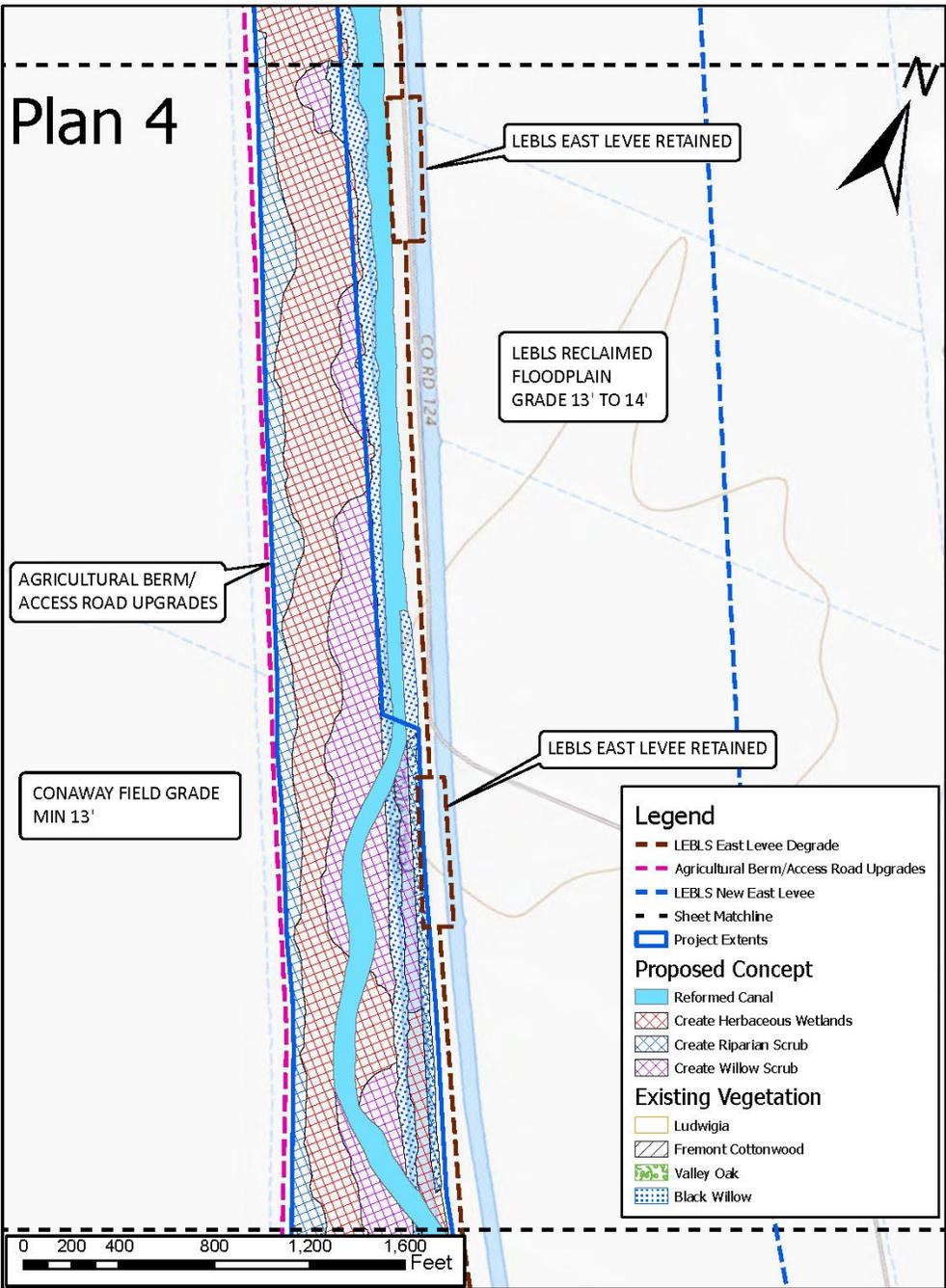
Plan 2



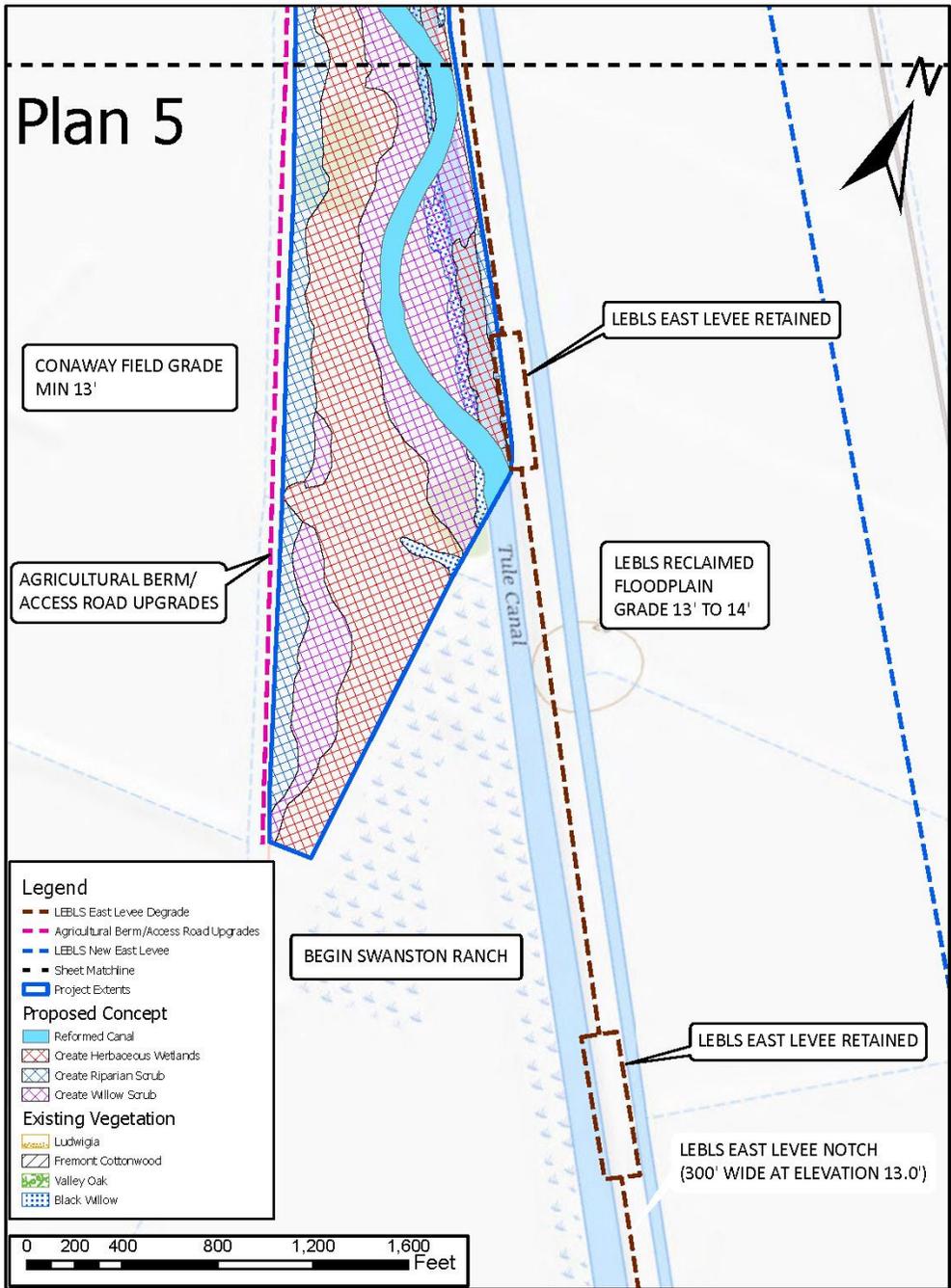
Plan 3



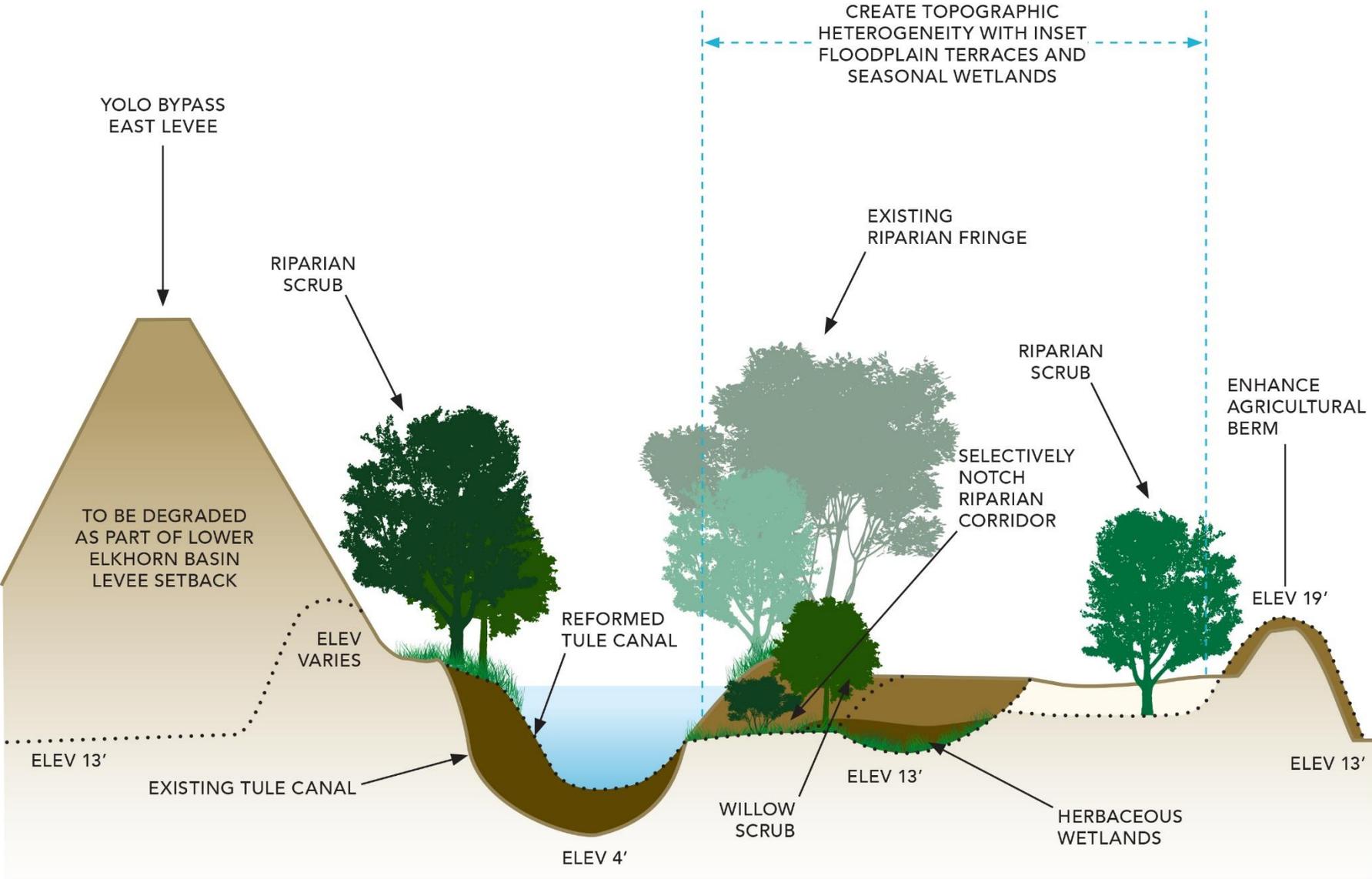
Plan 4



Plan 5

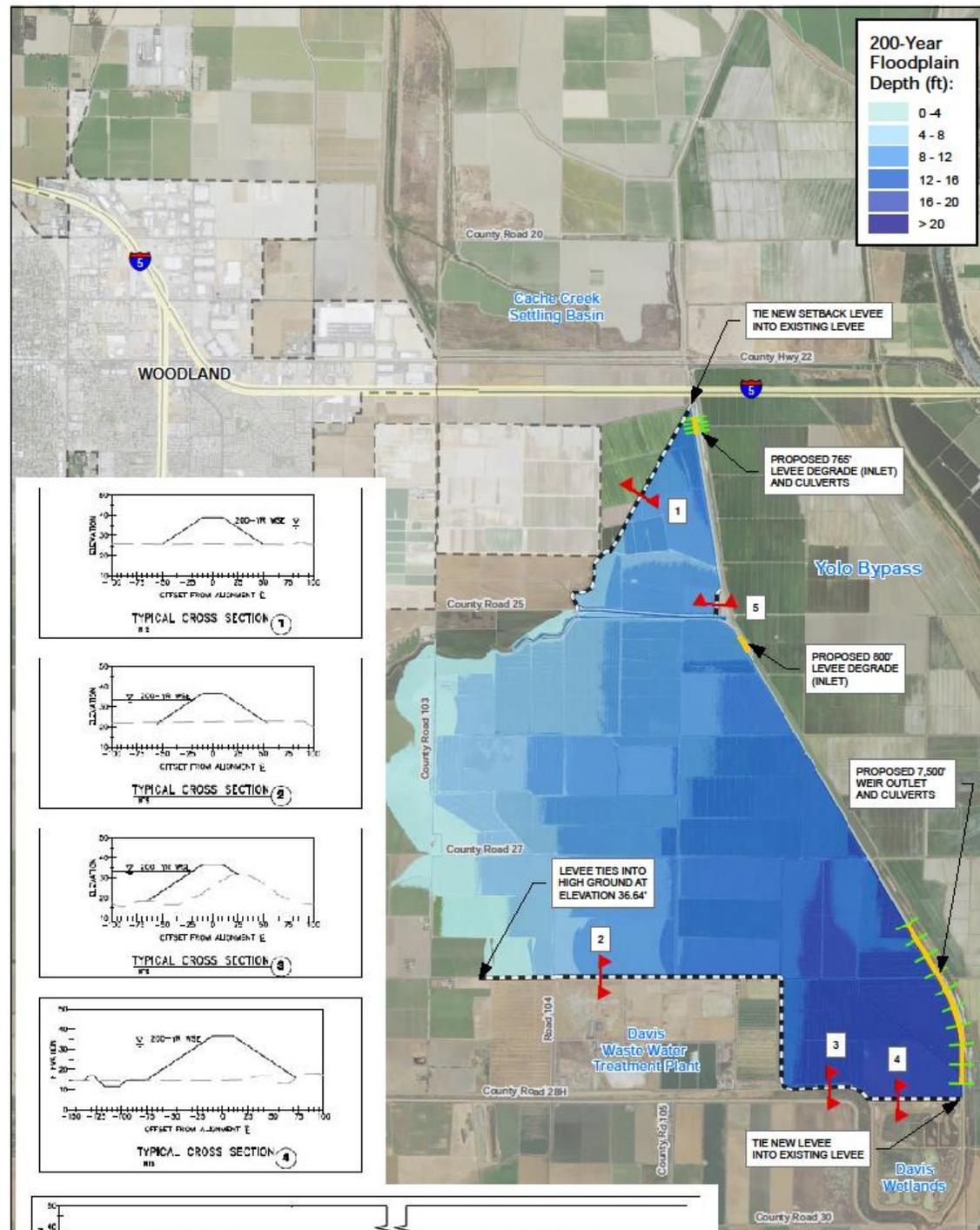


Tule Canal Wetland Corridor Enhancements Conceptual Cross Section



NOTES: NOT TO SCALE
LOOKING SOUTH OR DOWNSTREAM

Potential West Levee Setback Project Conaway Ranch



Questions/Comments?

Agenda Item #6

Directors' Reports

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

- i. YCFC&WCD Infrastructure Committee Meeting
- ii. NCWA Board of Directors Meeting / Water Coordination and Bay-Delta Task Force Meetings
- iii. Exploratory Discussion Regarding Yolo-Zamora Annexation

Agenda Item #7

Attorney's Reports

Report on Legal Matters of Concern to the District

Agenda Item #8

General Manager's Report

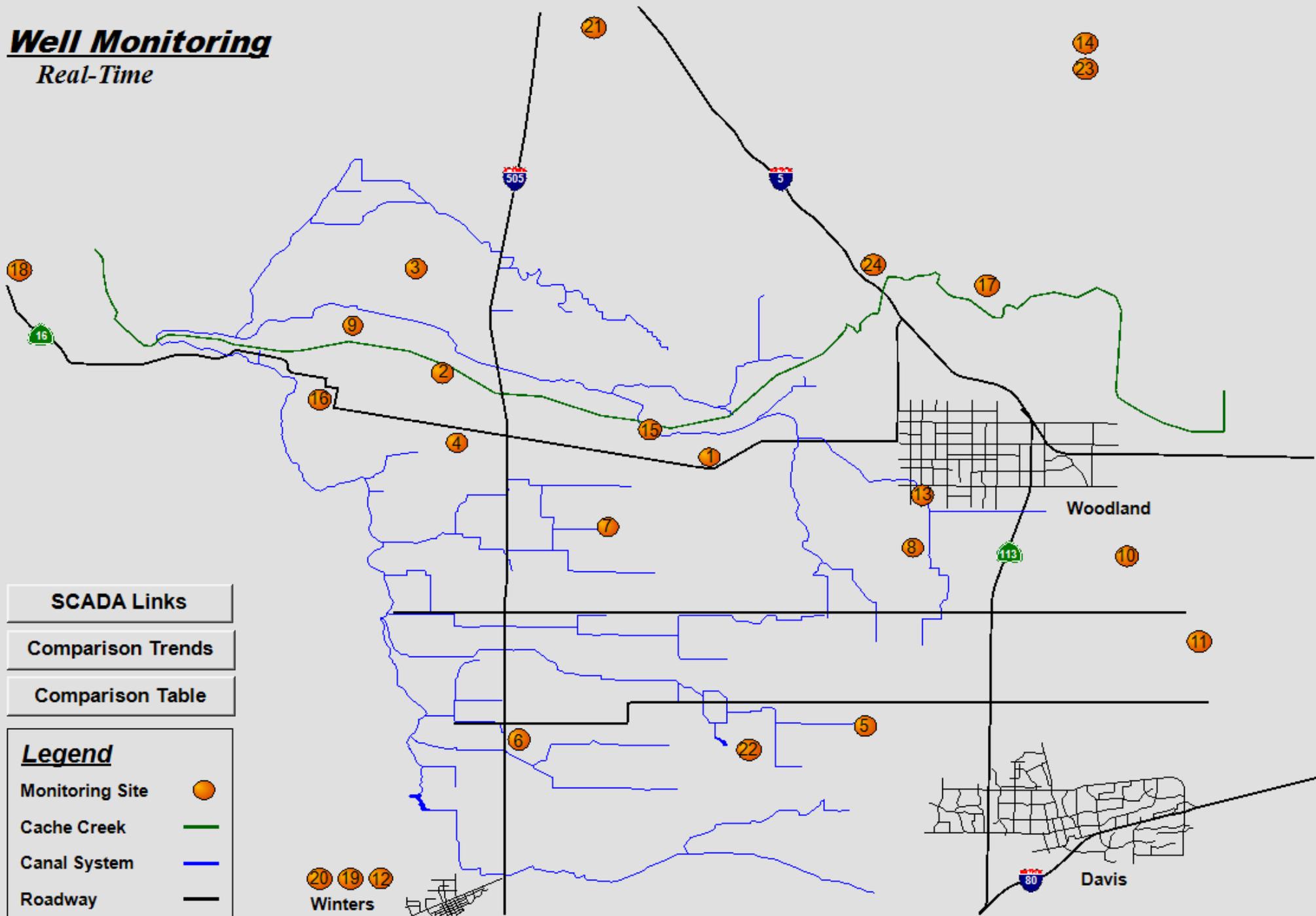
- **Water Conditions Report**
- **Financial Report Summary**
- **Capital Improvement Program**
- **General Activities**
- **YSGA Update**
- **Upcoming Events**

Current Water Conditions (04-05-22)

	<u>Elevation</u>	<u>Available</u>	<u>2021</u>
Clear Lake			
• April 5	0.39'	0 AF	1.16' (0 AF)
• March 5	0.49'	0 AF	
• Total Loss	-0.10'	0 AF	
Indian Valley Reservoir			
• April 5	1,393.36'	49,370 AF	1,411.23' (78,090 AF)
• March 5	1,393.11'	49,050 AF	
• Total Gain	0.25'	320 AF	

Well Monitoring

Real-Time



SCADA Links

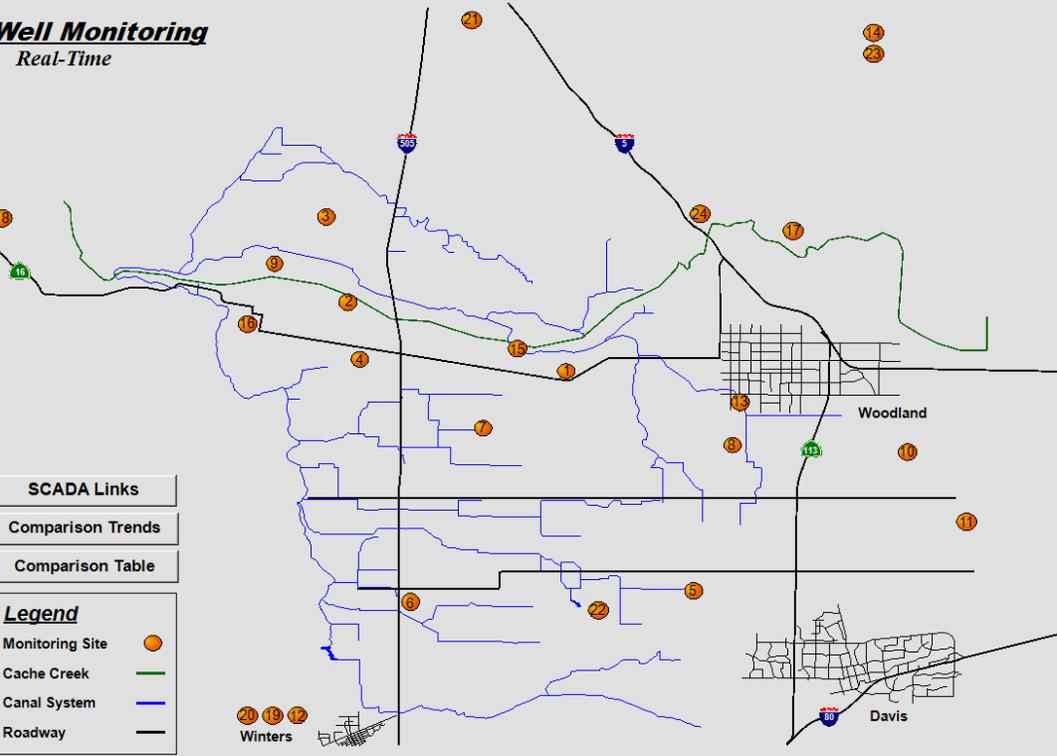
Comparison Trends

Comparison Table

Legend

- Monitoring Site 
- Cache Creek 
- Canal System 
- Roadway 

20 19 12
Winters



Well Monitoring

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

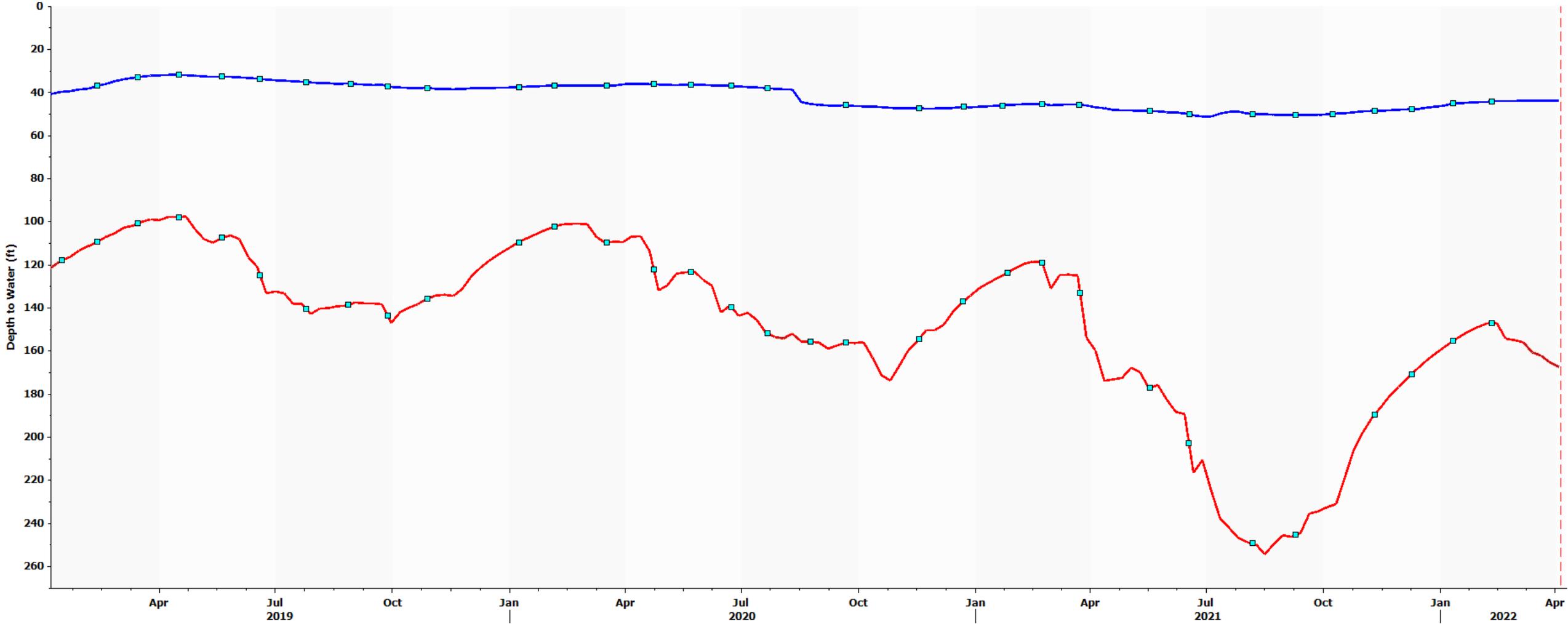
Well	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Δ 2021 - 2022	Δ 2015 - 2022
1.	80.9	75.7	77.6	81.4	91.4	102.9	101.7	88.0	88.0	86.9	86.9	99.1	115.1	-16.0	-12.2
2.		26.4	29.4	30.8	35.2	40.4	41.6	23.8	30.0	24.0	30.5	32.5	38.4	-5.8	2.0
3.		40.1	39.3	40.9	49.7	64.3	56.9	37.2	40.0	36.5	40.6	46.0	62.5	-16.5	1.8
4.		22.2	25.5	26.3	30.8	43.9	37.5	22.4	27.5	20.4	29.3	40.5	39.6	.9	4.3
5.			21.3	17.6	29.8	33.2	37.7	17.7	28.3	12.3	22.1	31.1	38.0	-7.0	-4.8
6.			34.9	38.7	43.8	65.7	56.3	26.9	37.6	21.4	40.3	56.7	57.2	-.5	8.5
7.					21.2	32.4	31.9	15.6	20.6	14.4	20.9	29.0	35.7	-6.7	-3.2
8.					49.3	69.4	62.6	44.0	42.4	34.9	40.9	59.8	67.0	-7.2	2.3
9.					48.0	58.6	54.1	36.8	40.2	34.0	42.3	50.2	55.5	-5.3	3.1
10.						41.1	24.9	11.1	11.6	10.9	14.3	27.9	46.7	-18.8	-5.5
11.						14.6	10.7	5.5	7.9	5.2	10.0	14.3	17.6	-3.3	-3.0
12.										108.9	107.2	119.0	134.9	-16.0	
13.									54.7	44.6	54.8	74.2	80.2	-6.0	
14.										7.7	10.7	10.8	10.1	.0	
15s.										32.1	36.3	46.9	43.8	3.1	
15d.										100.3	109.9	162.3	169.3	-7.0	
16.										24.3	37.6	39.4	49.3	-9.9	
17.											21.3	27.6	31.3	-3.7	
18.											32.8	58.5	39.4	19.2	
19.											165.3	175.3	188.6	-13.3	
20.											199.3	199.0	199.0	-.1	
21.											117.9	128.0	136.6	-8.6	
22.													74.1		
23.													43.2		
24.													64.6		

1. HQ Well Depth to Water



Depth to Water
3/5/22 : 113.1 feet
4/5/22: 115.1 feet
Δ -2 feet

15. Moore Well Depth to Water

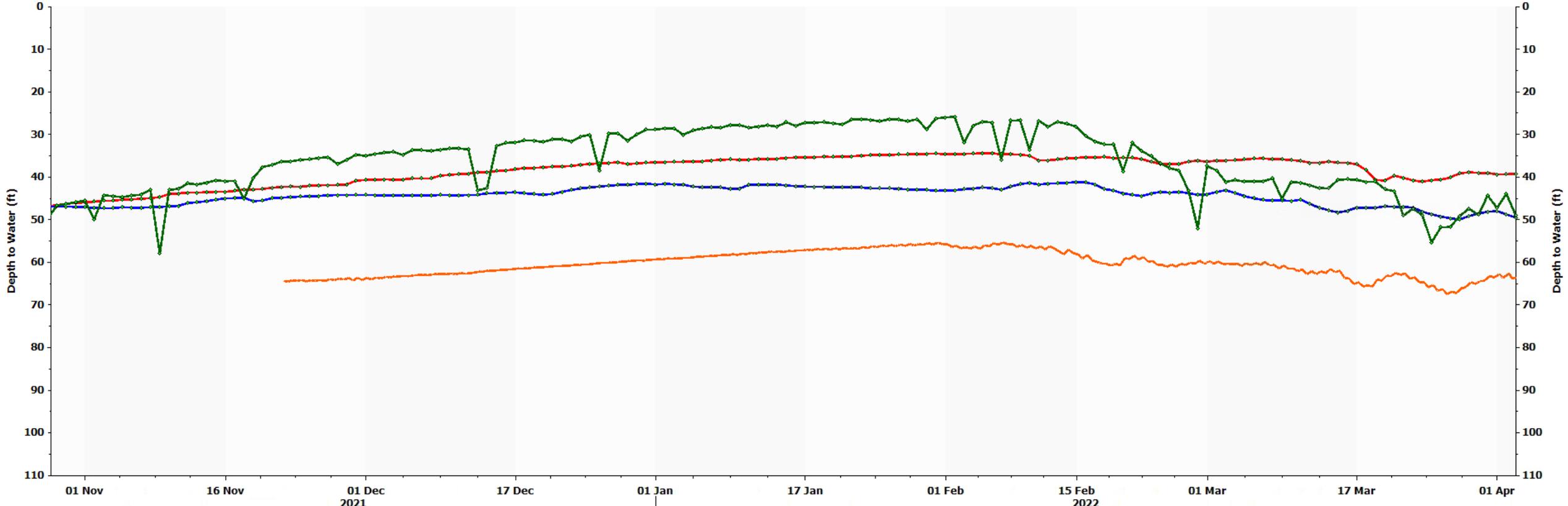


Trace
Moore Well (s) Depth to Water (Weekly Minimum)
Moore Well (d) Depth to Water (Weekly Minimum)

Ruler Value

4/5/22: 169.3 feet
Δ -14 feet

CSD Real-Time Monitoring Well Hydrographs



Trace

- ◆ Madison Well Depth to Water
- ◆ Esparto Well Depth to Water
- ◆ Knights Landing Well Depth to Water
- ◆ Yolo Fire Station Well Depth to Water

Axis

- ◆ Depth to Water (ft) (0 - 110)
- ◆ Depth to Water (ft) (0 - 110)
- ◆ Depth to Water (ft) (0 - 110)
- ◆ Depth to Water (ft) (0 - 110)

Ruler Value

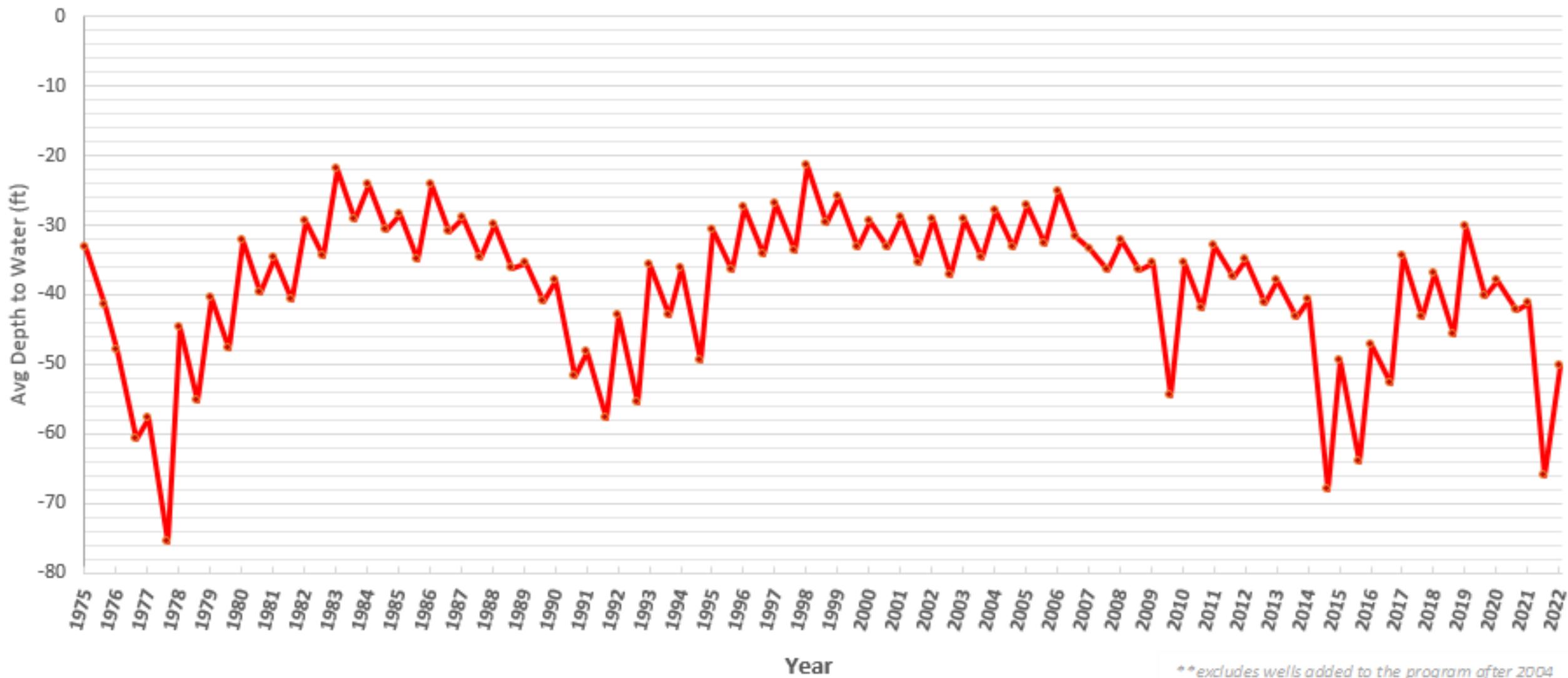
-
-
-
-

Latest Value

- 4/4/2022 4:46:48.913 PM 39.3
- 4/4/2022 4:46:48.926 PM 49.56
- 4/4/2022 4:46:48.952 PM 44.04
- 4/5/2022 2:39:11.758 PM 66.02

YCFCWCD Average Groundwater

*Depth by Season (Spring 2022 is 131 wells)***



**excludes wells added to the program after 2004

Preliminary Financial Report

Highlights as of March 31, 2022

Preliminary Budget Summary as of 03/31/2022

Key Revenue Drivers	Year-to-Date	Budget	Difference
Agricultural Water Sales	\$1,211,100	\$1,192,200	\$18,900
Non-Agricultural (M&I) Water Sales	\$314,300	\$306,700	\$7,600
Property Taxes	\$972,600	\$1,631,000	(\$658,400)
IV Dam Hydro (less fees)	\$39,400	\$50,000	(\$10,600)
Other Revenue	\$1,094,600	\$519,900	\$574,700
<i>Grant Revenue – Yolo Subbasin GSP Grant</i>	<i>\$85,500</i>	<i>\$106,000</i>	<i>(\$20,500)</i>
<i>YSGA & FloodSAFE Yolo Reimbursements</i>	<i>\$175,500</i>	<i>\$277,000</i>	<i>(\$101,500)</i>
<i>Interest</i>	<i>\$20,600</i>	<i>\$10,000</i>	<i>\$10,600</i>
<i>Other (includes COVID-19 Relief)</i>	<i>\$813,000</i>	<i>\$126,900</i>	<i>\$686,100</i>
TOTAL REVENUE	\$3,632,000	\$3,699,800	(\$67,800)

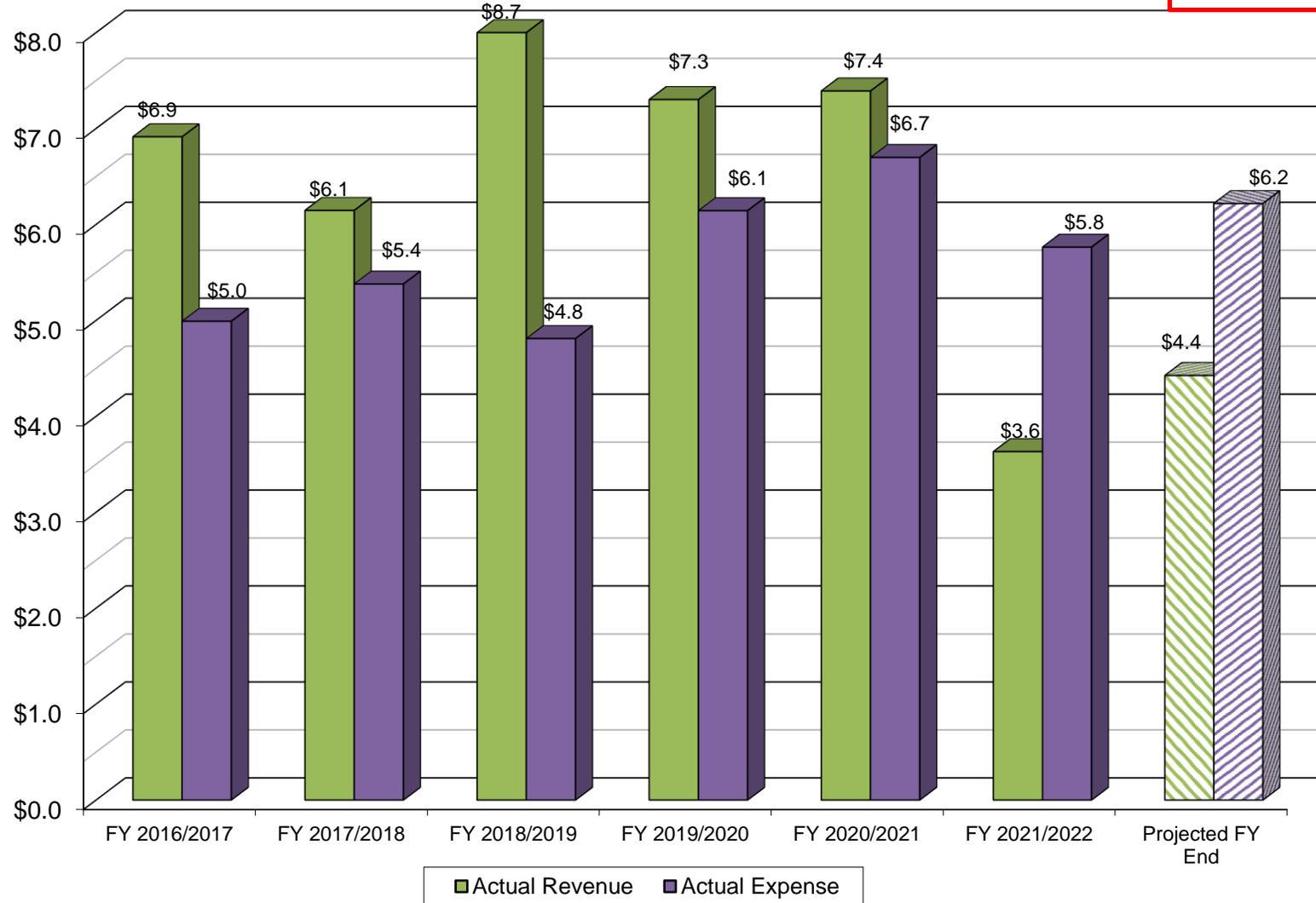
Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$843,200	\$1,164,100	(\$320,900)
General Administration	\$2,240,700	\$2,650,700	(\$410,000)
Other Expenses	\$2,679,400	\$2,884,400	(\$205,000)
TOTAL EXPENSES	\$5,763,300	\$6,699,200	(\$935,900)

Preliminary Financial Report

Comparison of Actual Revenue vs. Actual Expense

Original Budget
\$3.7 / \$6.7

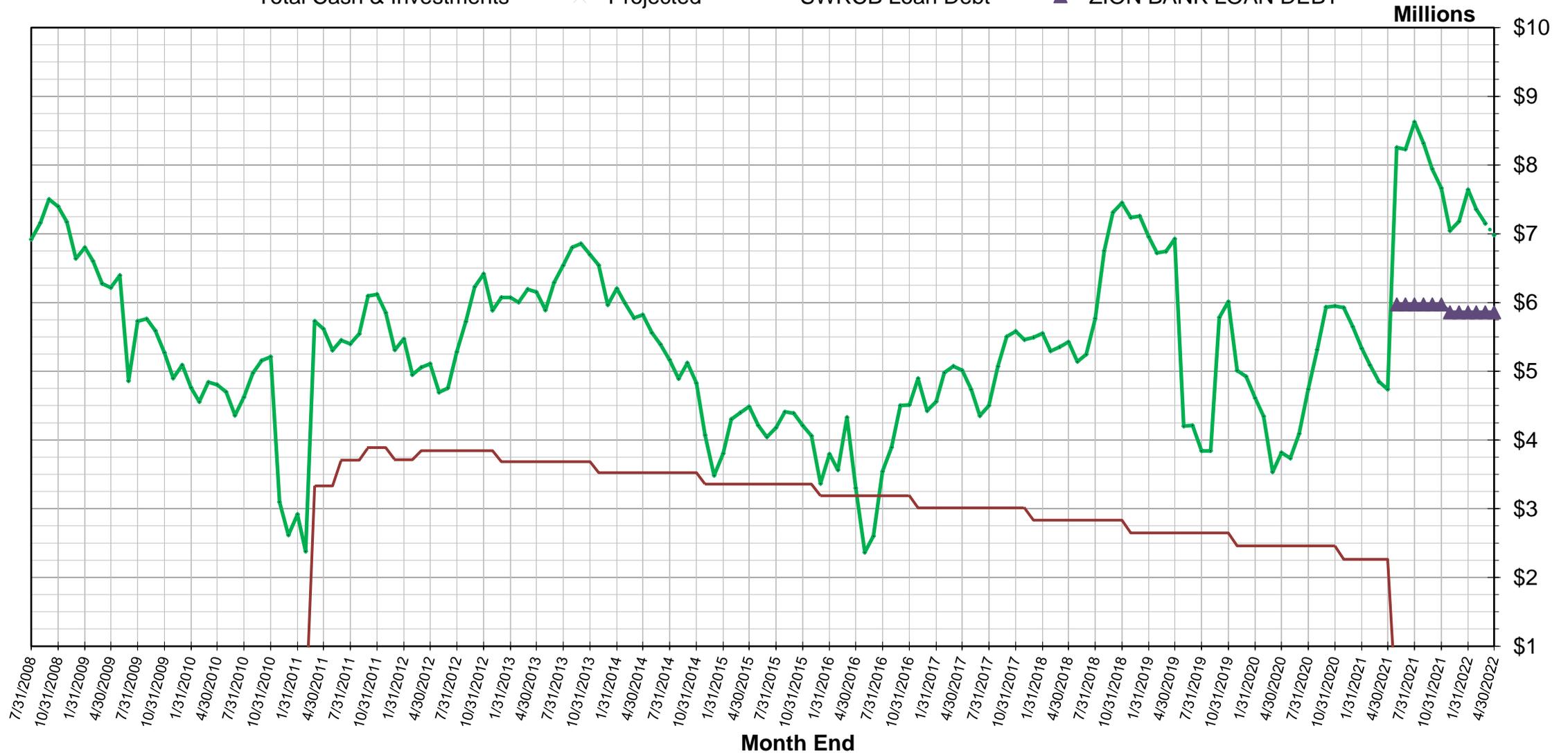
Millions



Financial Report Summary

Cash History

— Total Cash & Investments - - - Projected — SWRCB Loan Debt ▲ ZION BANK LOAN DEBT



Capital Improvement Program

Planning for Capital Jobs

Capay Dam Alternatives Assessment

- Reliable, cost-effective solution with same operational flexibility
- Proposals for Replacement Alternatives Analysis (2/3 received)
- Quotes from HTE Engineering and Obermeyer for Cost of Installation of Replacement Bladder
- Reviewed Proposals with Infrastructure Committee on 3/30

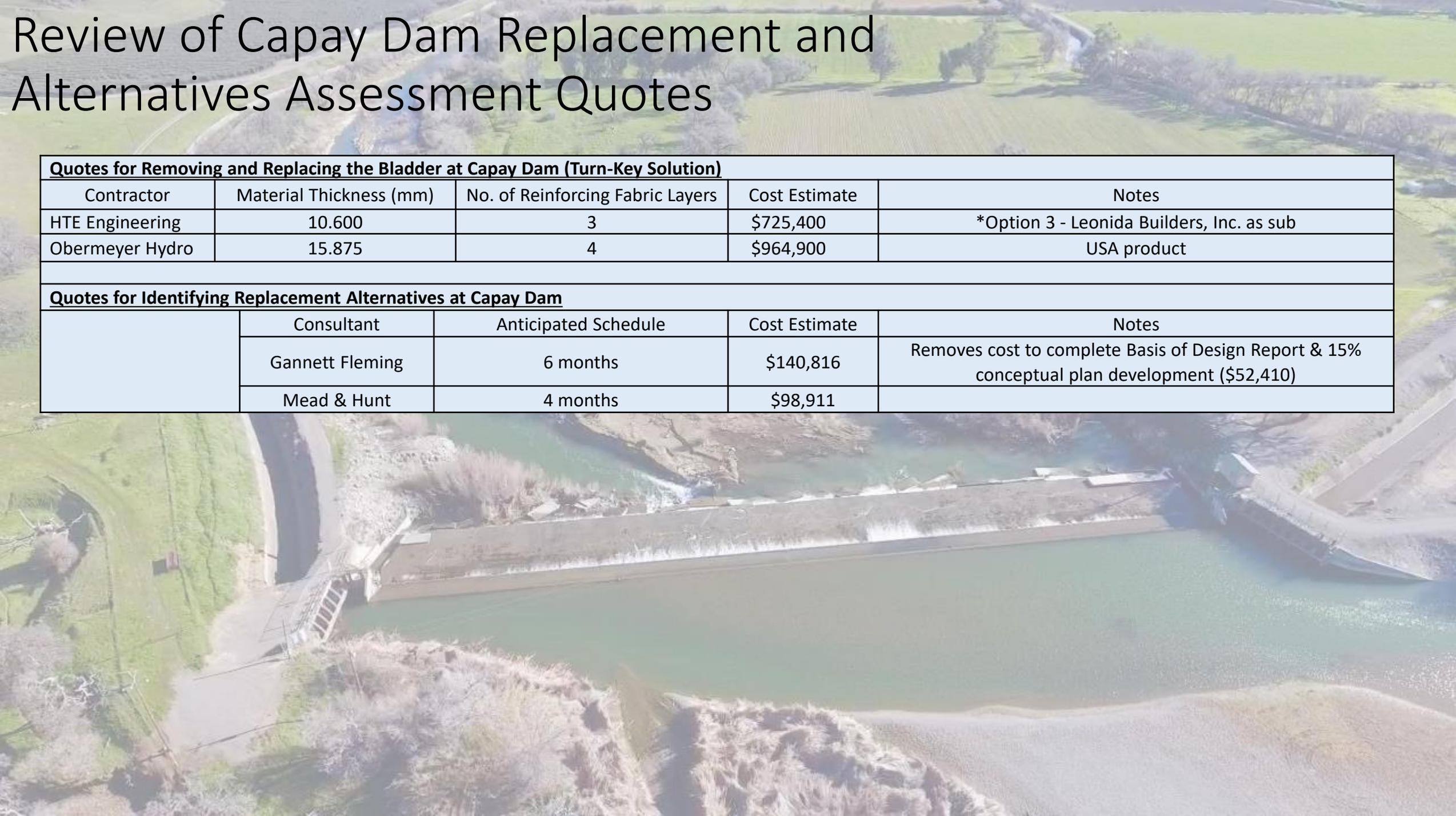
FY 22/23 Planning Activities Related to Large Capital Jobs

Hungry Hollow Canal – Pipeline Extension Project



Review of Capay Dam Replacement and Alternatives Assessment Quotes

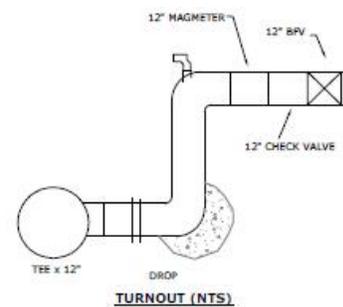
Quotes for Removing and Replacing the Bladder at Capay Dam (Turn-Key Solution)				
Contractor	Material Thickness (mm)	No. of Reinforcing Fabric Layers	Cost Estimate	Notes
HTE Engineering	10.600	3	\$725,400	*Option 3 - Leonida Builders, Inc. as sub
Obermeyer Hydro	15.875	4	\$964,900	USA product
Quotes for Identifying Replacement Alternatives at Capay Dam				
	Consultant	Anticipated Schedule	Cost Estimate	Notes
	Gannett Fleming	6 months	\$140,816	Removes cost to complete Basis of Design Report & 15% conceptual plan development (\$52,410)
	Mead & Hunt	4 months	\$98,911	



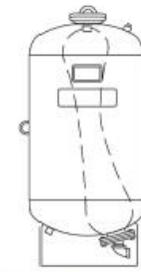
Discussion of FY 22/23 Planning Activities Related to Large Capital Jobs

- Indian Valley Reservoir – 60” Hollow-Jet Valve Rebuild: ~\$200k
- FERC Part12D Recommendations
 - Photogrammetric Topo Survey of Eastern Ravine: ~\$30k
 - Potential Failure Mode Analysis Investigations: ~\$100k
 - Spillway Repair Project: ~\$300k (FY 23/24)
 - Dam Seepage Monitoring: ~\$500k (FY 23/24, maybe pushback)
 - Penstock and Spillway Gates Recoating Project: ~\$800k (FY 24/25)

Update on Hungry Hollow Canal Pipeline Extension Project

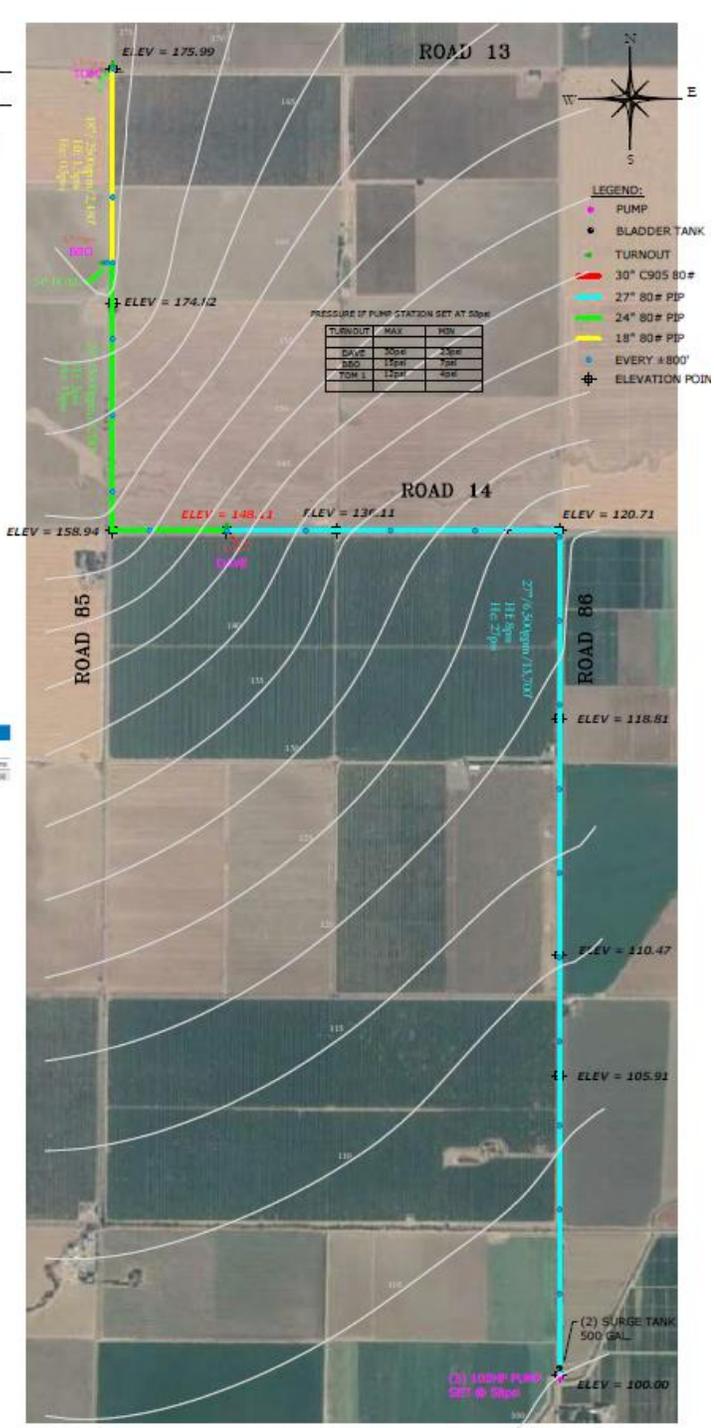
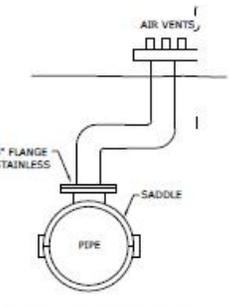
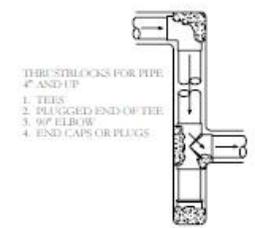


BLADDER TANK



ASME Full Acceptance Bladder Series Specifications

Model	TPA (Pounds)	Max. Allow. Working Pressure (PSI)	Max. Working Pressure (PSI)	Max. Working Pressure (PSI)
BLADDER	500	80	80	1,000
	800	80	80	1,500
	1,000	80	80	1,500
	1,500	80	80	1,500
	2,000	80	80	1,500



General Activities (March 2 – April 5)

PROJECTS:

- **Employee Performance Evaluation Process – Value and Goal Setting Workshops / Training on Effective Performance Feedback**
- **LWA Assessment of Long-Term Funding Opportunities**
- **Budget Planning – shared services opportunities**
- **Capital Projects – primarily planning for implementation of USBR grant projects**
- **Maintenance on Canal System and Various Private Jobs**
- **Water Rights Reporting**
- **YSGA – GSP Grant Management; Groundwater Monitoring Program Improvements; Annual Reports; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach**
- **Drought Assistance – Dry well checks (Contract with Yolo County OES)**
- **Voluntary Agreement Process/Dry Year Scenario Planning**
- **Water Contract Amendment Templates – CLOCWD and Golden State Water Co.**
- **Grant Opportunities – Review of Solicitation Packages**
- **IVR Cybersecurity Program**
- **Weed Management (MERCOSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)**
- **Wild Wings CSA and Madison/Knights Landing/Cacheville CSDs Groundwater Assistance and Drought Contingency Planning**
- **Encroachment Permits, Easement Research, Misc. Water Rights Investigations**

General Activities (March 2 – April 5)

OUTREACH:

1. YSGA Working Group Meeting (March 2)
2. FSY 2.0: Assessment and Alternatives Analysis for Reducing Flooding on Highway 16 (March 3)
3. NCWA Annual Meeting (March 4 and 11)
4. Westside IRWM CC Meetings (March 9 and 31)
5. Meeting with SWB to Discuss Winter Water Right Permit (March 9)
6. YSGA: North Yolo – South Colusa Groundwater Recharge Brainstorming Meeting (March 10)
7. YSGA: Hungry Hollow Area Groundwater Subcommittee Meeting (March 10)
8. WRA/YSGA Executive Committees Meetings (March 14)
9. NCWA Groundwater Management Task Force Meeting (March 14)
10. NCWA Water Coordination Task Force Meetings (March 15 and 29)
11. YSGA: Colusa Drain MWC Annual Board Meeting (March 16)
12. Exploratory Discussion Regarding Yolo-Zamora Annexation (March 17)
13. NCWA Water Manager's Meeting (March 18)
14. WRA TC Ad Hoc Drought Task Force Meetings (March 18)
15. WRA/YSGA Board of Directors' Meetings (March 21)
16. California Water Data Consortium Meeting (March 22)
17. NCWA's Sac River Basin: VA Discussions (March 22 and 23)
18. YSGA / County Coordination on Governor's E.O. (March 31)
19. County / Yolo County Farm Bureau Coordination Meeting (April 4)
20. NCWA Bay-Delta Task Force Meetings (March 7 and April 4)
21. Supervisor Sandy Briefing on Governor's E.O. (April 4)
22. Coordination Meeting with Eaton Drilling Regarding Well Permitting Changes (April 5)

YSGA UPDATE

YSGA 2022 Q2 Activities

- Submitted Annual Reports for 2018-2021

YSGA Annual Report

TABLE 2: HYDROLOGIC CONDITIONS⁵

Water Year	Sacramento Valley Index	Sac Valley Water Year Type	Yolo Subbasin Estimated Precipitation (PRISM)	Percent of Subbasin Average ⁶
2019	10.2	Wet	29.2"	150%
2020	6.0	Dry	10.9"	56%
2021	3.8	Critical	6.6"	34%

FIGURE 3: YOLO SUBBASIN AVERAGE DEPTH TO WATER

Yolo Subbasin Average Groundwater
Representative Wells - Depth by Season (62 Wells)

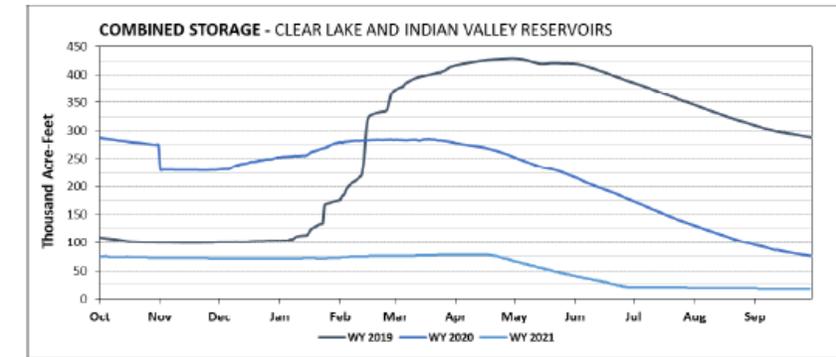
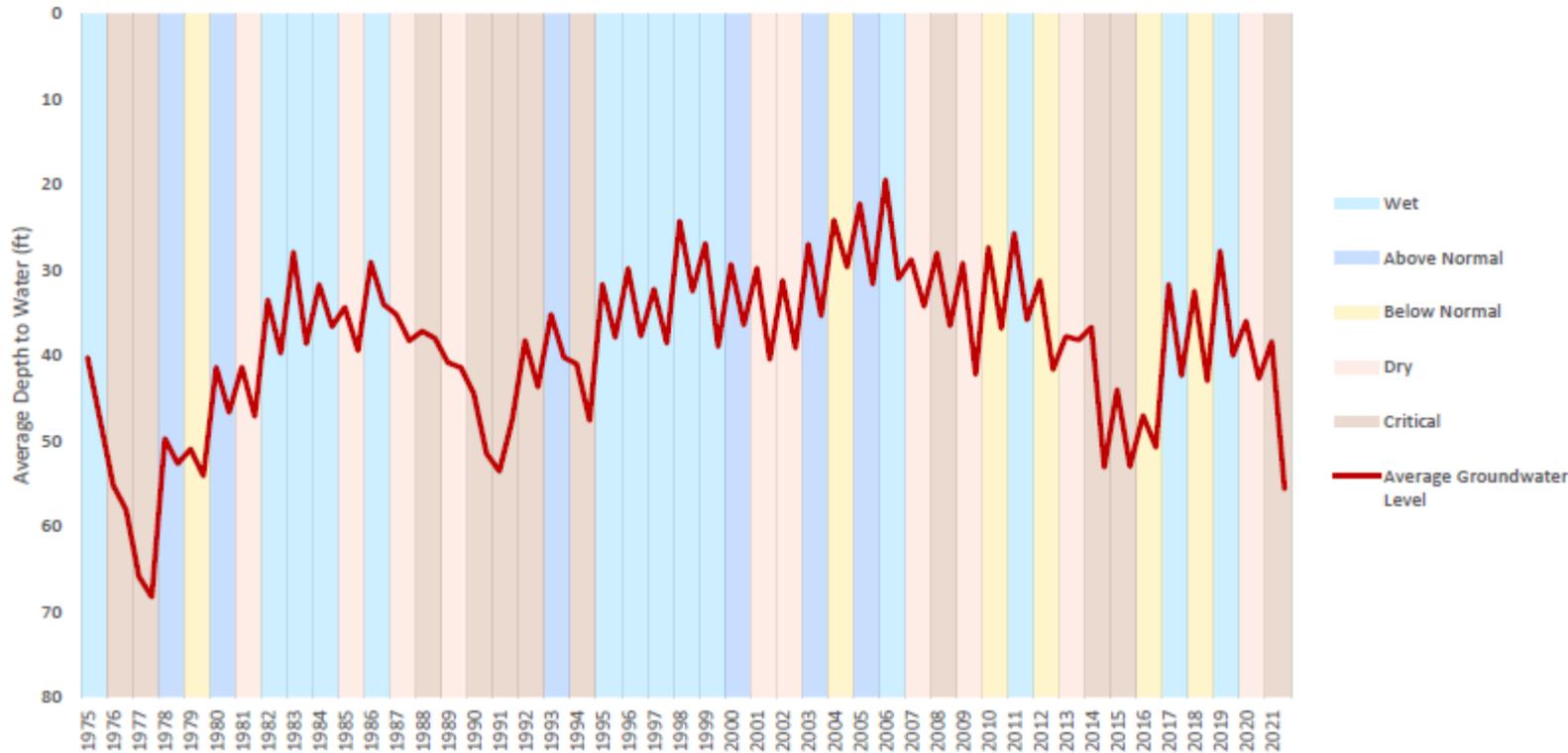
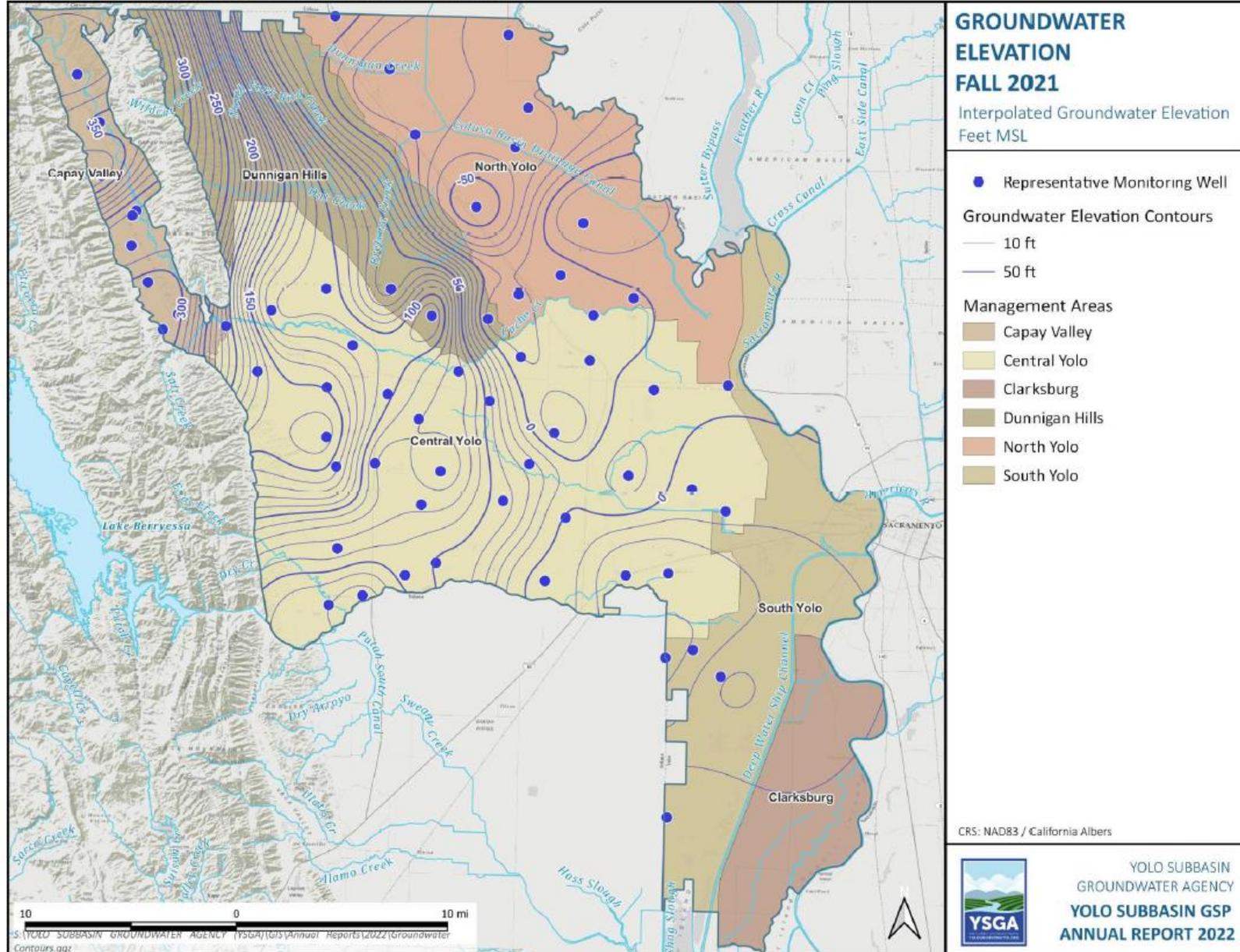
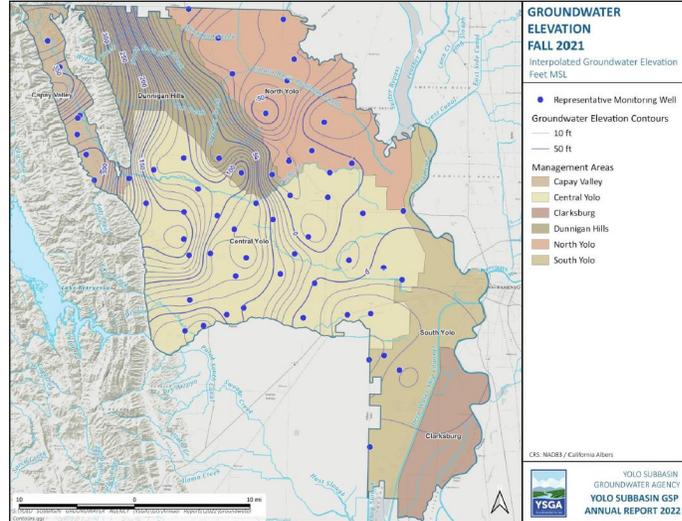


FIGURE 2: COMBINED STORAGE AT CLEAR LAKE AND INDIAN VALLEY RESERVOIRS

YSGA Annual Report

FIGURE 10: GROUNDWATER ELEVATION CONTOUR – FALL 2021





YSGA Annual Report

TABLE 3: CAPAY VALLEY REPRESENTATIVE MONITORING WELL GROUNDWATER ELEVATIONS

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>							<i>Fall 2017-Fall 2021</i>	<i>5-year average minus MO</i>
<i>Shaded values are below the minimum threshold value</i>												
<i>*** represents no measurement</i>												
10N02W16R001M	276	215.0	207.7	217.0	219.9	216.7	216.2	214.6	214.2	211.2	214.7	-0.3
10N02W18F001M	277	315.6	304.2	325.6	312.9	318.5	317.8	325.9	314.8	311.2	320.1	4.4
10N03W02R002M	280	319.5	308.2	312.7	322.5	316.6	316.7	313.3	313.4	309.3	312.9	-6.6
11N03W09Q001M	285	383.7	355.8	382.2	394.4	384.9	389.3	382.3	381.6	377.6	381.9	-1.9
11N03W23L001M	287	296.0	287.6	298.5	301.0	298.9	298.7	298.2	***	285.9	294.2	-1.8
11N03W23N001M	288	287.3	271.0	295.3	301.6	298.3	297.5	294.5	289.3	284.4	293.4	6.1
11N03W33F001M	289	351.1	341.2	351.5	356.2	351.6	352.0	351.3	351.2	344.4	349.4	-1.7
12N03W20D001M	293	382.8	376.4	383.4	387.1	382.4	383.6	382.0	382.4	380.0	381.3	-1.5
11N03W35D003M	415	280.7	273.0	***	293.1	282.1	284.1	281.2	283.1	275.9	279.6	-1.0
10N03W24B002M	416	324.8	281.1	327.8	345.9	343.7	339.6	327.2	326.6	310.4	327.3	2.4

TABLE 4: NORTH YOLO REPRESENTATIVE MONITORING WELL GROUNDWATER ELEVATIONS

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>							<i>Fall 2017-Fall 2021</i>	<i>5-year average minus MO</i>
<i>Shaded values are below the minimum threshold value</i>												
<i>*** represents no measurement</i>												
11N01E02D001M	127	-13.3	-88.3	-17.4	16.2	-10.3	7.6	-27.2	5.6	-37.1	-24.2	-10.9
11N01E16P001M	128	-33.1	-129.8	0.4	26.3	-24.1	17.3	-25.9	10.5	-58.5	-20.4	12.7
12N01E03R002M	129	9.1	-44.3	-1.0	20.6	3.5	19.0	-9.0	15.3	-32.8	-3.8	-12.9
12N01E26A002M	131	-4.2	-46.1	-5.0	19.3	-2.0	13.0	-12.5	5.6	-29.7	-9.1	-4.9
10N03E33B011M	153	3.8	-73.3	8.6	***	7.5	14.2	3.1	11.3	1.7	6.9	3.1
12N01W14M001M	178	10.5	-30.9	-7.5	19.3	-7.5	10.8	-14.9	-12.5	-29.5	-9.0	-19.4
12N01W36K002M	180	-7.7	-49.7	-29.5	8.5	-24.5	2.1	-34.5	***	***	-27.2	-19.5
10N01E02Q002M	251	32.1	-32.6	17.1	40.4	20.3	32.6	17.6	22.5	***	18.0	-14.1
10N02E06B001M	405	26.0	-85.7	18.6	37.6	28.6	29.6	23.6	25.0	-8.1	14.1	-11.9
12N01W05B001M	411	49.5	-25.3	18.3	30.5	20.6	25.6	15.5	16.5	4.4	15.2	-34.4
10N02E09N001M	410	12.9	-63.7	7.7	36.6	23.0	28.0	17.1	23.2	-3.4	9.7	-3.2
10N02E03R002M	420	12.2	-39.2	-9.8	31.8	6.5	22.3	***	15.7	***	-5.2	-17.4
11N02E20K004M	421	28.8	-31.6	25.7	33.4	29.5	32.9	26.8	29.1	20.9	26.9	-1.9

TABLE 5: CENTRAL YOLO REPRESENTATIVE MONITORING WELL GROUNDWATER ELEVATIONS

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>							<i>Fall 2017-Fall 2021</i>	<i>5-year average minus MO</i>
<i>Shaded values are below the minimum threshold value</i>												
<i>*** represents no measurement</i>												
08N02E15A002M	114	-25.1	-61.3	***	***	0.4	16.8	-9.6	10.0	-28.6	-10.3	14.8
08N03E07N001M	132	-22.0	-78.0	***	***	***	***	***	***	-28.9	***	***
09N03E33B002M	151	4.7	-35.3	4.8	19.0	3.6	15.0	-2.1	12.9	-4.2	3.0	-1.8
08N02E18M002M	170	20.4	1.5	15.5	30.1	23.5	***	13.5	22.5	-3.5	17.5	-2.9
08N01E07R001M	220	82.3	16.5	60.5	87.6	74.1	72.2	***	65.1	46.5	60.6	-21.7
08N01W09C001M	222	110.9	40.3	72.0	92.6	78.2	82.6	85.4	88.6	69.0	75.3	-35.6
08N01W13G003M	224	80.0	47.8	70.9	***	78.4	77.8	71.8	73.3	58.8	69.5	-10.5
08N01W20R005M	229	72.8	36.4	44.7	75.4	60.9	72.0	45.0	59.6	31.2	47.3	-25.6
09N01E03C003M	230	19.3	-56.4	23.1	24.9	9.1	-0.7	***	***	***	18.6	-0.8
09N01E07D001M	231	111.1	68.3	102.4	109.6	104.7	104.5	99.2	97.2	76.5	99.8	-17.3
09N01E20E001M	233	104.8	67.1	106.7	108.8	106.0	105.0	105.7	98.9	91.7	101.3	-3.5
09N01E24D001M	234	52.2	7.6	41.5	51.5	49.5	47.3	45.3	40.7	29.1	39.7	-12.4
09N01E31D001M	235	104.6	68.3	103.7	111.3	106.1	100.7	101.8	92.6	70.9	92.6	-12.0
09N01W08Q001M	239	185.1	152.2	185.7	186.3	184.7	178.3	184.5	174.9	172.9	181.5	-3.6
09N01W21E001M	240	163.4	144.7	160.4	171.1	153.7	165.1	162.4	159.4	149.5	159.9	-3.5
09N02E07L001M	246	24.7	-45.4	2.2	37.6	18.4	28.2	***	23.4	-19.6	-1.4	-26.1
09N02E32M001M	248	29.1	-7.0	16.2	44.2	27.1	32.7	21.6	27.2	-2.7	14.9	-14.2
09N03E19R002M	250	6.7	-14.1	2.5	18.7	3.3	15.0	-0.6	12.9	-5.5	3.3	-3.4
10N01E23Q002M	254	26.8	-43.0	16.8	44.9	31.7	37.7	23.0	29.6	-12.2	12.3	-14.5
10N01E29K001M	256	77.8	58.4	80.0	87.2	81.8	80.8	80.2	79.5	77.2	79.5	-1.7
10N01W08B001M	261	139.5	73.3	136.0	144.9	141.9	140.5	137.3	135.7	106.9	128.4	-11.2
10N01W21J001M	265	127.5	90.9	127.5	137.0	130.6	131.2	129.7	129.3	115.4	125.0	-2.6
10N01W32E001M	268	169.9	144.5	169.6	174.9	169.6	167.1	168.6	164.1	152.0	164.4	-5.5
10N01W95Q001M	269	120.5	93.0	121.9	128.7	124.0	116.2	123.3	110.0	104.8	117.6	-2.9
10N02W14A001M	275	137.8	91.1	136.0	148.7	138.4	138.8	137.2	134.1	104.8	127.3	-10.5
10N02W26P001M	279	241.7	212.7	220.6	225.6	219.7	221.4	211.2	***	***	218.1	-23.6
10N02E29A001M	406	35.7	9.9	29.6	38.3	35.9	37.4	***	***	***	31.9	-3.8
09N02E2H002M	400	22.9	-24.8	22.4	28.6	26.8	28.4	23.3	24.2	14.0	19.9	-3.0
10N02E36E001M	401	22.1	9.0	20.4	28.7	19.8	25.8	19.6	23.6	14.1	19.7	-2.4
09N01E26N001M	403	71.7	32.2	53.5	76.3	66.1	64.8	61.0	58.7	46.3	55.1	-16.7
09N01W23D001M	404	135.8	82.9	119.7	136.0	128.6	122.1	122.8	121.6	67.9	110.2	-25.6
08N01W22G500M	410	71.0	6.5	39.5	79.5	58.5	78.5	47.5	62.5	16.5	50.8	-21.0

TABLE 6: SOUTH YOLO REPRESENTATIVE MONITORING WELL GROUNDWATER ELEVATIONS

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>							<i>Fall 2017-Fall 2021</i>	<i>5-year average minus MO</i>
<i>Shaded values are below the minimum threshold value</i>												
<i>*** represents no measurement</i>												
08N03E32L001M	122	-1.9	-71.8	-10.1	16.4	-56.5	8.8	-18.4	2.9	-31.1	-13.0	-11.1
06N03E07M001M	160	9.9	-10.8	-2.8	14.7	-2.0	12.2	-5.4	***	-7.0	-0.9	-10.8
08N03E31N001M	422	-7.0	-49.3	-10.2	14.3	-9.0	2.9	-20.8	***	-34.2	-8.8	-1.7
07N03E04Q001M	423	0.5	-27.1	-1.4	16.9	-0.9	7.7	***	***	-7.7	1.4	0.9

TABLE 7: DUNNINGAN HILLS MONITORING WELL GROUNDWATER ELEVATIONS

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>							<i>Fall 2017-Fall 2021</i>	<i>5-year average minus MO</i>
<i>Shaded values are below the minimum threshold value</i>												
<i>*** represents no measurement</i>												
10N01E18C001M	253	143.1	132.8	137.8	138.0	140.1	137.5	138.5	135.4	134.5	137.8	-5.3
10N01W02Q001M	260	128.3	73.6	76.8	94.6	86.0	91.0	79.8	78.4	46.2	69.5	-58.8
10N01E15D001M	402	17.5	-69.6	-53.0	6.3	5.1	17.7	-2.3	7.4	-23.6	-24.3	-41.8

YSGA Annual Report

TABLE 10: WATER BUDGET ASSESSMENT

Variable	WY 2019	WY 2020	WY 2021
1 Agricultural Eta	981,000	994,000	929,000
2 Effective Precipitation	208,000	78,000	47,000
3 Total Ag Demand	773,000	916,000	882,000
4 Agricultural SW - Entities	345,000	410,000	210,000
5 Agricultural SW - eWRIMS	102,000	90,000	44,000
6 Agricultural SW Diversion	447,000	500,000	254,000
7 Agricultural GW Extraction	326,000	415,000	628,000
8 Agricultural Total Water Use	773,000	916,000	882,000
9 Urban SW - Entities	33,000	35,000	30,000
10 Urban GW Extraction - Entities	4,000	4,000	7,000
11 Urban Total Water Use	36,000	39,000	37,000
12 Total SW Diversions	480,000	535,000	284,000
13 Total GW Extraction	330,000	419,000	635,000
14 Total Water Use	810,000	954,000	919,000

The GSP lists the sustainable yield of the Yolo Subbasin as approximately 346,000 AF.

TABLE 11: ESTIMATED ANNUAL GROUNDWATER EXTRACTION RELATIVE TO SUSTAINABLE YIELD

	WY 2019	WY 2020	WY 2021
Groundwater Extraction, AF	330,000	419,000	635,000
Difference to Sustainable Yield, AF	+16,000	-73,000	-289,000

TABLE 12: ESTIMATED CHANGES IN GROUNDWATER STORAGE

Water Year	2019	2020	2021
Estimated Change in Storage (AF)	142,000	-102,000	-390,000

YSGA 2022 Q2 Activities

- Submitted Annual Reports for 2018-2021
 - YSGA Special Board Meeting to Consider Well Permitting Modifications (4/6)
1. Consultation with the GSA – If the proposed well would be in a high or medium priority groundwater basin, the well permitting agency must consult with the GSA and receive written verification from the GSA that the proposed well location is generally consistent (not inconsistent) with the applicable GSP and will not decrease the likelihood of achieving the sustainability goals that the GSAs have developed under SGMA.
 2. Permit Evaluation – For every well permit application, the local well permitting agency must determine before issuing a well permit that extraction of groundwater from the proposed well is not likely to interfere with the production and functioning of existing nearby wells and is not likely to cause subsidence that would adversely impact or damage nearby infrastructure.

YSGA 2022 Q2 Activities

- Submitted Annual Reports for 2018-2021
- YSGA Special Board Meeting to Consider Well Permitting Modifications (4/6)
- GSP Implementation – *Special Projects Advisor*
 - Management Area Advisory Committees
 - Reconsideration of Voting and Fees (Ad Hoc Committee Meeting Scheduled for 4/28)
 - WRA Merger into YSGA
- Ad Hoc Drought Contingency Planning Committee Meeting (4/13) – *Communications Plan*
 - Local planning strategies; MA for drought conditions; coordination with Yolo County
- WRA TC Ad Hoc Drought Task Force Meetings (SB 552: Drought/Water Shortage Planning)
- Hungry Hollow Area Community – Subcommittee Meeting on 3/10 and planned for 4/7
- FY 2021 Audit Preparation
- WRA/YSGA Board Meeting on 6/20

Upcoming Meetings & Events

1. YSGA Special Board of Directors Meeting ([April 6](#))
2. Water Education Foundation's Groundwater Tour: Capay Dam Site Visit ([April 7](#))
3. Drought Coordination with County Staff ([April 7](#))
4. Sacramento Valley Discussion with DWR on Executive Order ([April 7](#))
5. YSGA: Hungry Hollow Area Community – Groundwater Subcommittee Meeting ([April 7](#))
6. Yolo County BOS Meeting: Drought Update ([April 12](#))
7. YSGA Ad Hoc Drought Contingency Planning Committee ([April 13](#))
8. WRA TC Ad Hoc Drought Task Force Meeting ([April 14](#))
9. WRA/YSGA Executive Committees' Meetings ([April 18](#))
10. Yolo County Climate Compact Meeting ([April 22](#))
11. NCWA Groundwater Task Force Meeting ([April 26](#))
12. YSGA Ad Hoc Committee to Reconsider Voting and Fees ([April 28](#))
13. County/Farm Bureau Coordination Meeting ([May 2](#))
14. NCWA Bay-Delta Task Force Meeting ([May 2](#))
15. ACWA 2022 Spring Conference ([May 3-6](#))

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 #61041-61055 & e-payment 47)

061041	\$44,405.44	ACWA / JPIA Employee Benefits 0683172 APRIL 2022	4/1/22	MONTHLY MEDICAL, VISION, LIFE, EAP		44,405.44
061042	\$10,394.02	ACWA / JPIA - Insurance Payments WC 2022 QTR 1	3/31/22	WORKERS COMP QTR 2022-1		10,394.02
061043	\$51,689.14	Cal-Line Equipment 04303625	3/31/22	PO6599 12XPC HANDED CHIPPER	Reimbursable	51,689.14
061044	\$3,927.50	Integral Networks, Inc. 30639	4/1/22	PO6467 COMPLETE MANAGED SERVICES		3,927.50
061045	\$25,064.16	Interstate Oil Company T576911-IN T577940-IN	3/31/22 3/1/22	PO6420 1250GAL GAS, 1400GAL DIESEL PO6420 1200GAL GAS, 1010GAL DIESEL		14,385.78 10,678.38
061046	\$2,905.25	Larsen Wurzel & Associates, Inc. 2115000-0222	3/17/22	FUNDING EVALUATION 2/1-2/28/22		2,905.25
061047	\$3,568.75	Laugenour and Meikle, Inc. 22756	2/28/22	PO6607 IV ANNUAL SETTLEMENT POINT SURVEY		3,568.75
061048	\$14,622.73	Nutrien Ag Solutions 47553031	3/15/22	PO6562 ROUNDUP CUSTOM 265GA	Partially Reimbursable	14,622.73
061049	\$7,560.00	Pioneer Machinery, Inc. 1-514421-9	3/23/22	PO6597 CAT 325F EXCAVATOR 2/28-3/28/22	Partially Reimbursable	7,560.00
061050	\$5,637.50	Slate Geotechnical Consultants 1684	3/11/22	20-007-02 YC CDSE SERVICES 2020		5,637.50
061051	\$3,298.66	TechnoFlo System 34722	3/29/22	PO6519 REPLACE FLOWMETER HUH0523LP1	Reimbursable	3,298.66
061052	\$11,291.00	The Tank Depot UK008984-2	3/31/22	PO4793 5EA 2600GAL WATER TANK GREEN	Reimbursable	11,291.00
061053	\$7,716.25	Wood Rodgers, Inc. 155714	2/28/22	SR 16 FLOOD ASSESS & ANALYSIS	Reimbursable	7,716.25
061054	\$8,039.20	Hoblit Chrysler Jeep Dodge 290801B-CLOSED 290808B-CLOSED	3/8/22 3/8/22	PO6610 STOLEN CATALYTIC CNVRTR.SUBLET PO6609 REPLACE STOLEN CATALYTIC CONVERTR	Reimbursable Reimbursable	5,287.40 2,751.80
061055	\$3,303.88	Valley Tire Center, Inc. 88196	3/29/22	PO6611 17.5-25 LOADER TIRES		3,303.88
W00047	\$4,581.62	Employment Development Depart 2022 QTR 1	3/24/22	EFT - UNEMPLOYMENT INS TAX QTR 2022-1		4,581.62

\$ 208,005.10

\$ 208,005.10

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