



Solano Irrigation District

**Water Reliability:  
Physical and Regulatory  
Challenges**

February 18, 2026

# First Off ...

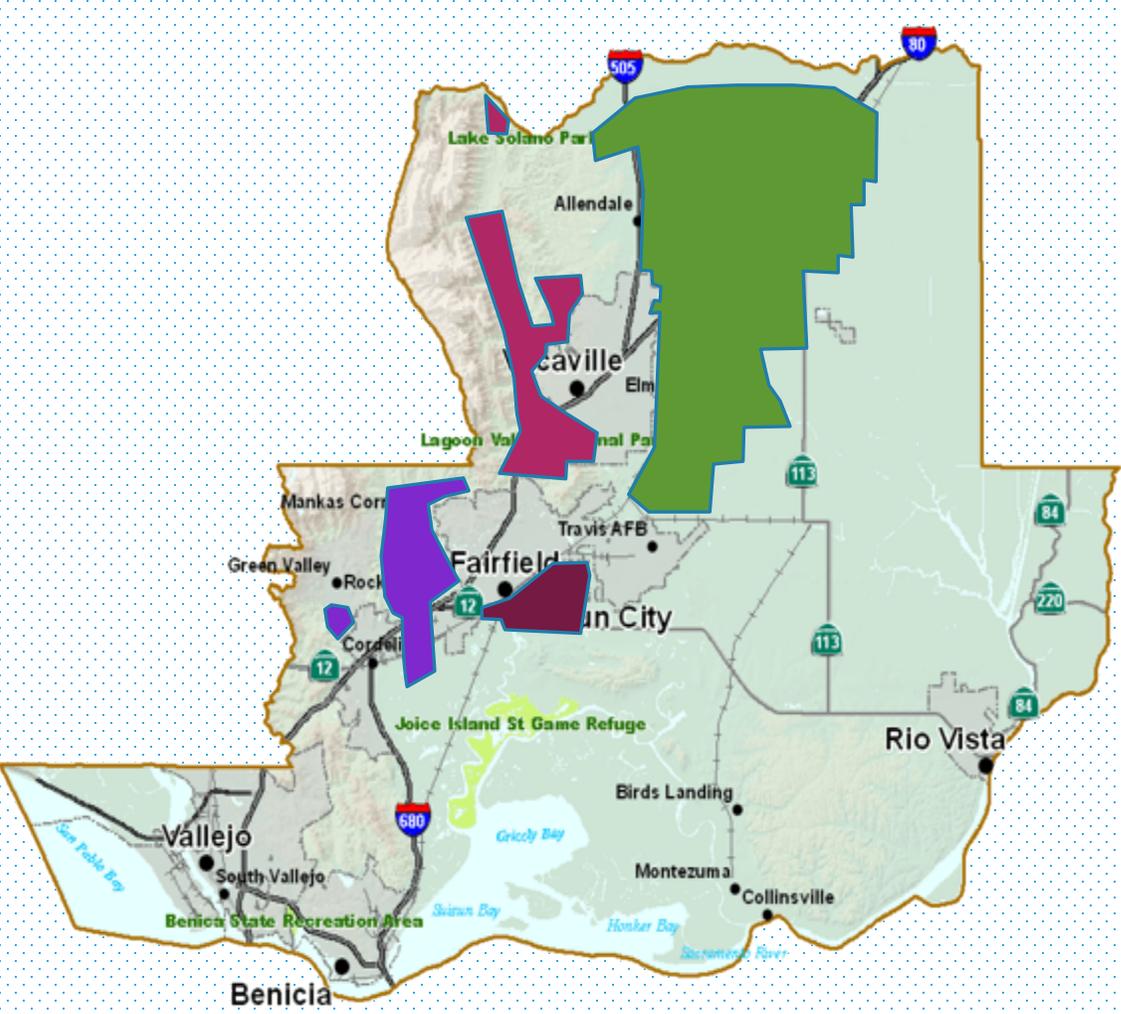
- As Vintners in Suisun Valley, **you're going to get all the water you need in 2026.**
- **March 16 – April 6 Start (Weather Dependent)**
- Est allocation of **4.2 AF/acre – Spills may impact**
- **But the future is less certain.**

# Second ...

## The Rest of the Presentation

- ✓ SID Overview
- ✓ Construction Projects in SSV
- ✓ Water Supply and Threats from the State
- ✓ Wrap Up with thoughts for long term planning

# We're the Solano Irrigation District



# Surface Water

- Our supply is Lake Berryessa and its watershed
  - We call this **“The Solano Project”**
- Built as a US Bureau of Reclamation project between 1953 and 1958
- First delivered water in 1959
- Ag and Potable Water in SSV

We are Here!

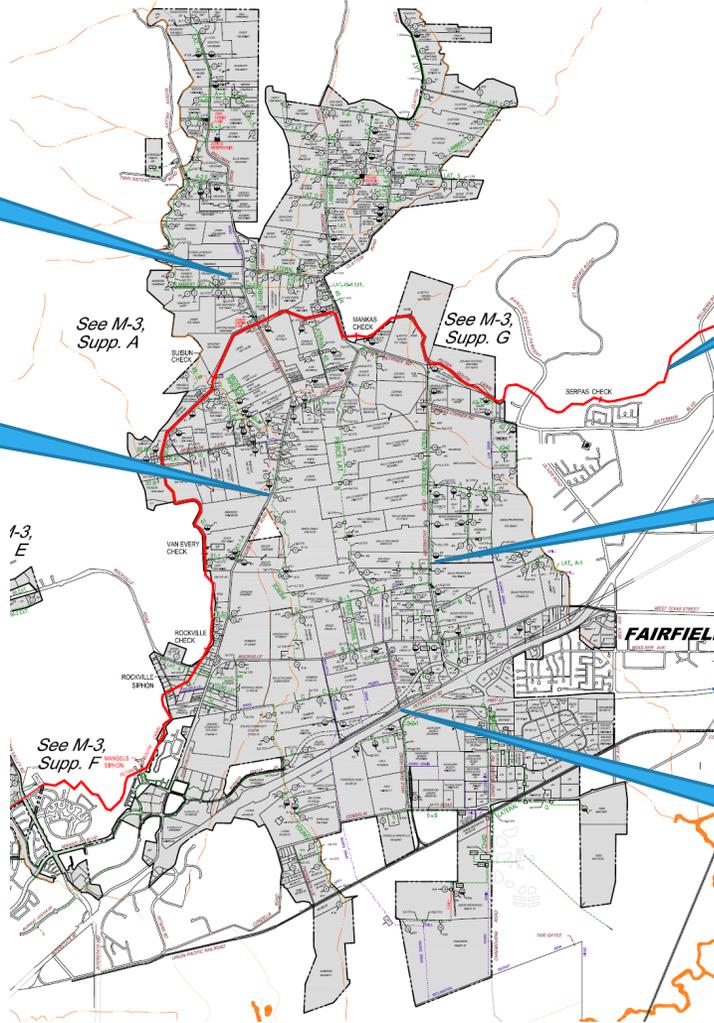
Suisun Valley Rd

PSC

Abernathy Rd

Hwy 12

I-80



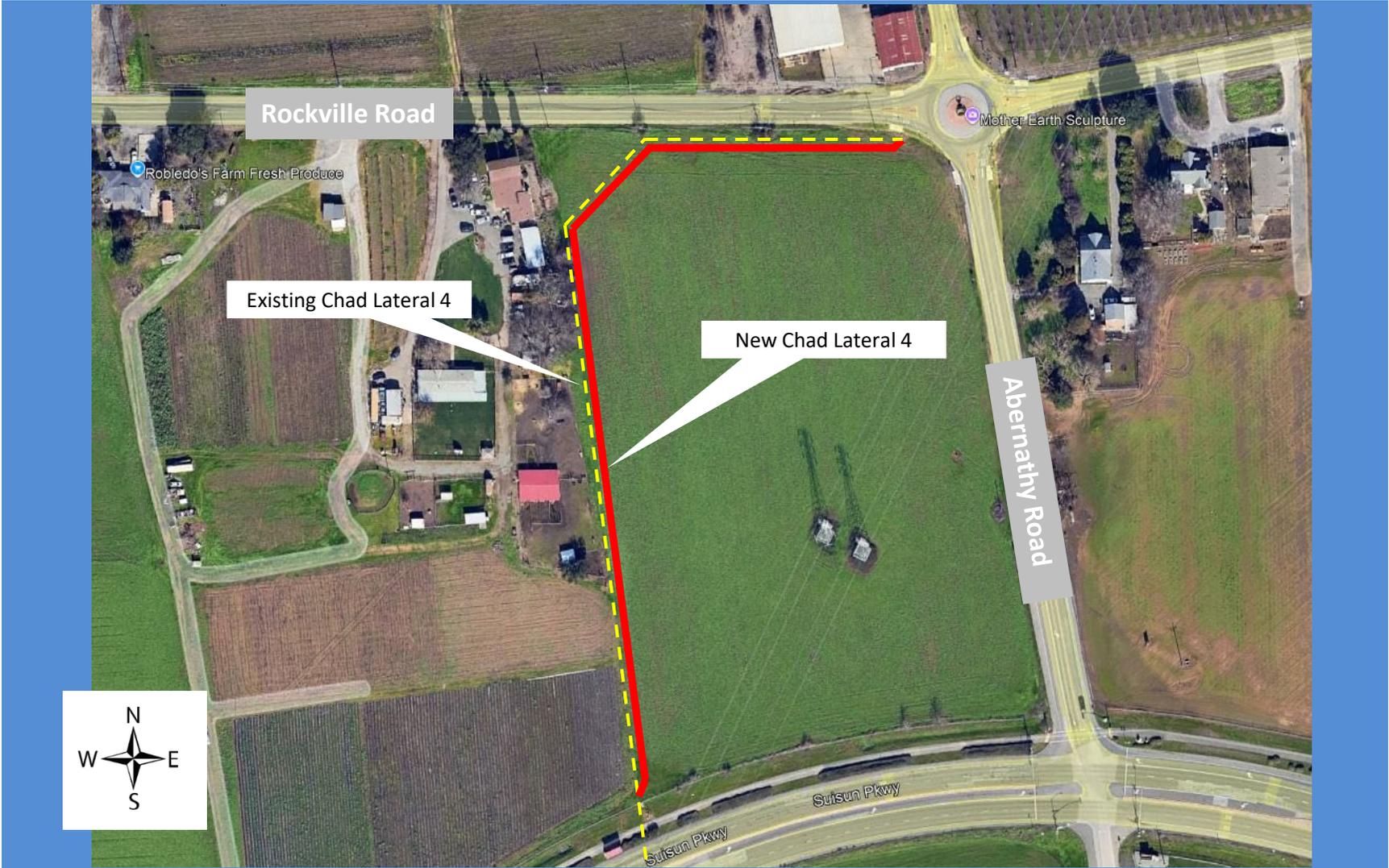


# Pipeline & Electrical Rehabilitation -Last 5 Years

- Pipeline Replacements: Approx. 16,100 ft.
  - Pierce Lateral Turnout 4 to Turnout 10: 3,700 ft 30" & 18"
  - Pierce Lateral B Headworks to Turnout 4: 2,370 30" & 24"
  - Pierce Lateral B Raines Drain to Turnout 15: 200' 12"
  - Chadbourne Turnout 0.5 to Turnout 2: 1,230 36"
  - Chadbourne Lateral A to Lateral C: 3,800 ft 36" & 30"
  - Chadbourne Lateral B: 1,400 16"
  - Chadbourne Lateral 4: 1,200 18" & 16"
  - Lambert Lateral E : 1,200 8"
  - Lateral 49-A: 1,000 12"
- Electrical Upgrades: 6 Facilities
  - Lambert (service only)
  - Lambert A (service only)
  - Jones
  - PFL-02
  - PFL-09
  - PFL-12



# Chadbourne Lateral 4



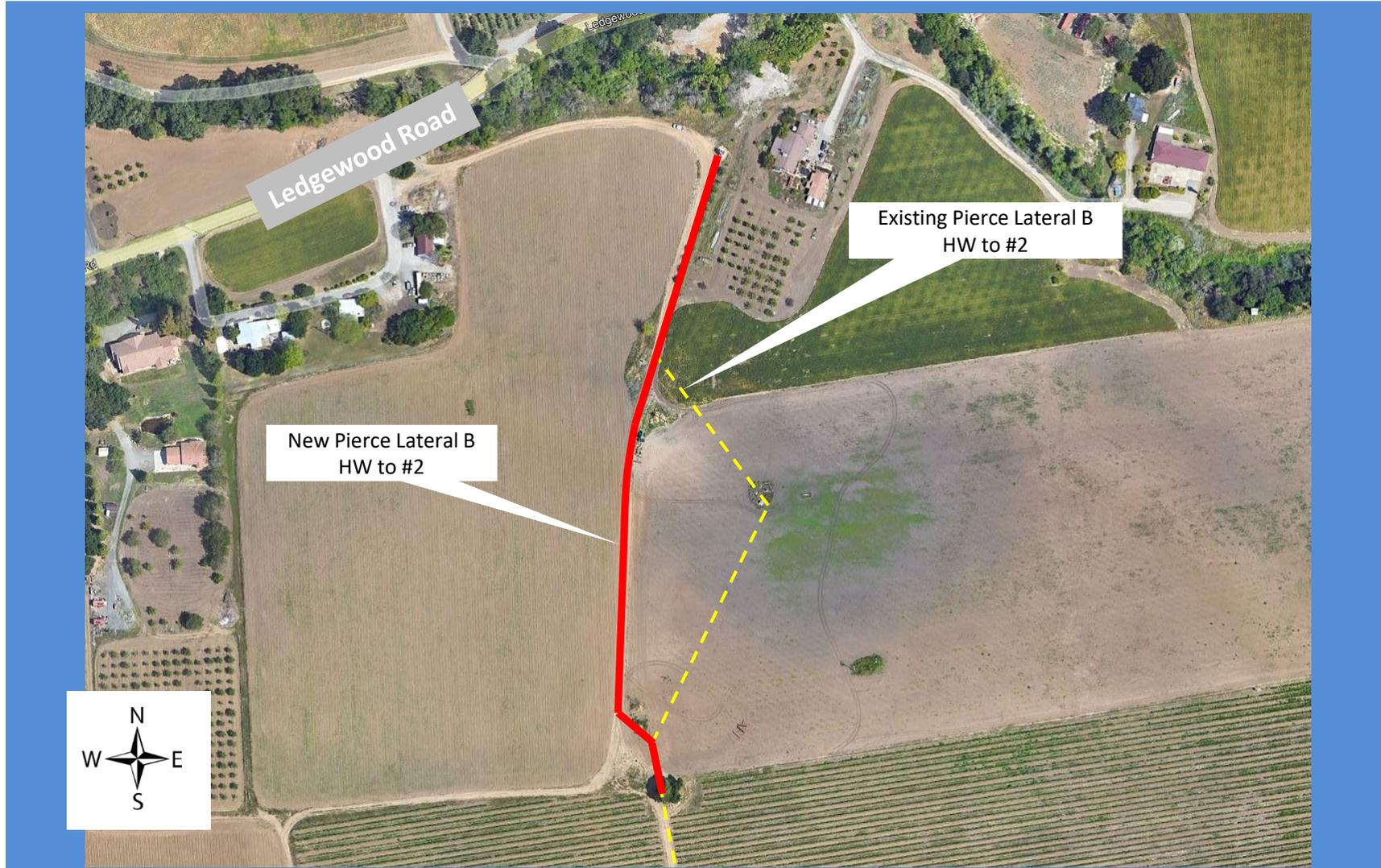
# Chadbourne Lateral 4 Pipeline



# Chadbourne Lateral 4 Pipeline



# Pierce Lateral B - HW to #2



# Pierce Lateral B - HW to #2



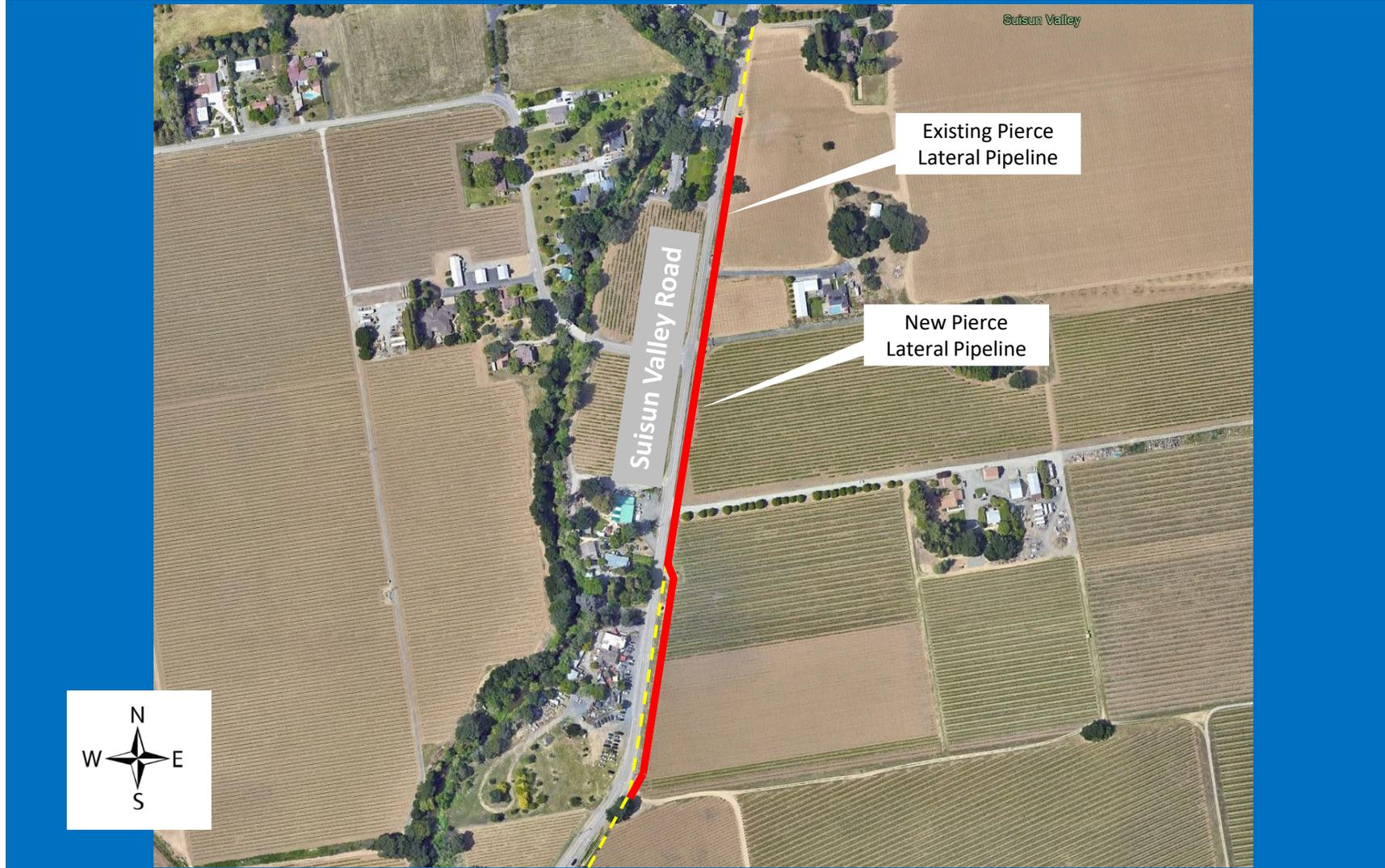
# Pierce Lateral B - HW to #2



# Pierce Lateral B - HW to #2



# Pierce Lateral - #6 to #10



# Electrical Upgrades



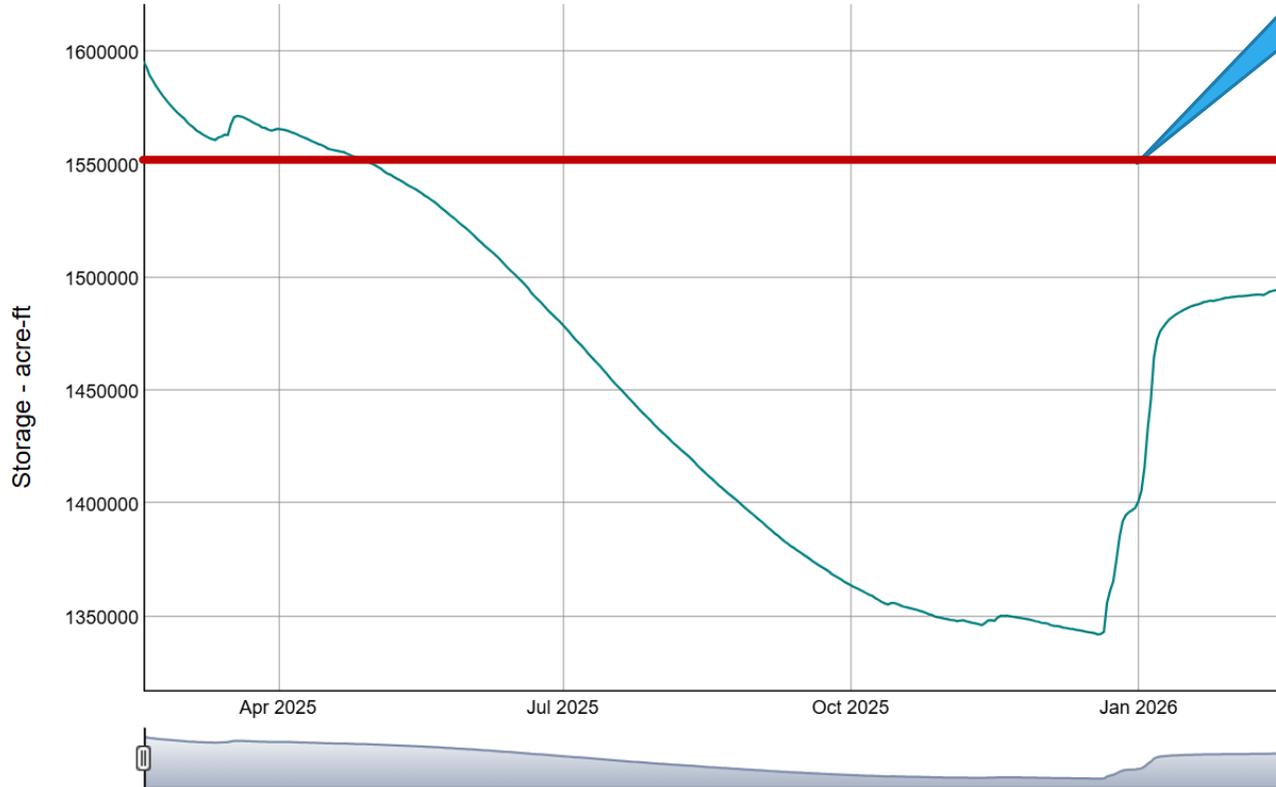


**That's the Delivery Side;  
What About Supply and Regulatory  
Impacts?**

Lake Berryessa - Storage - 1 Year  
(1002.504)

— 1Lake Berryessa Storage

Last Update: 2/17/2026 0:00, Value: 1505959.73694876

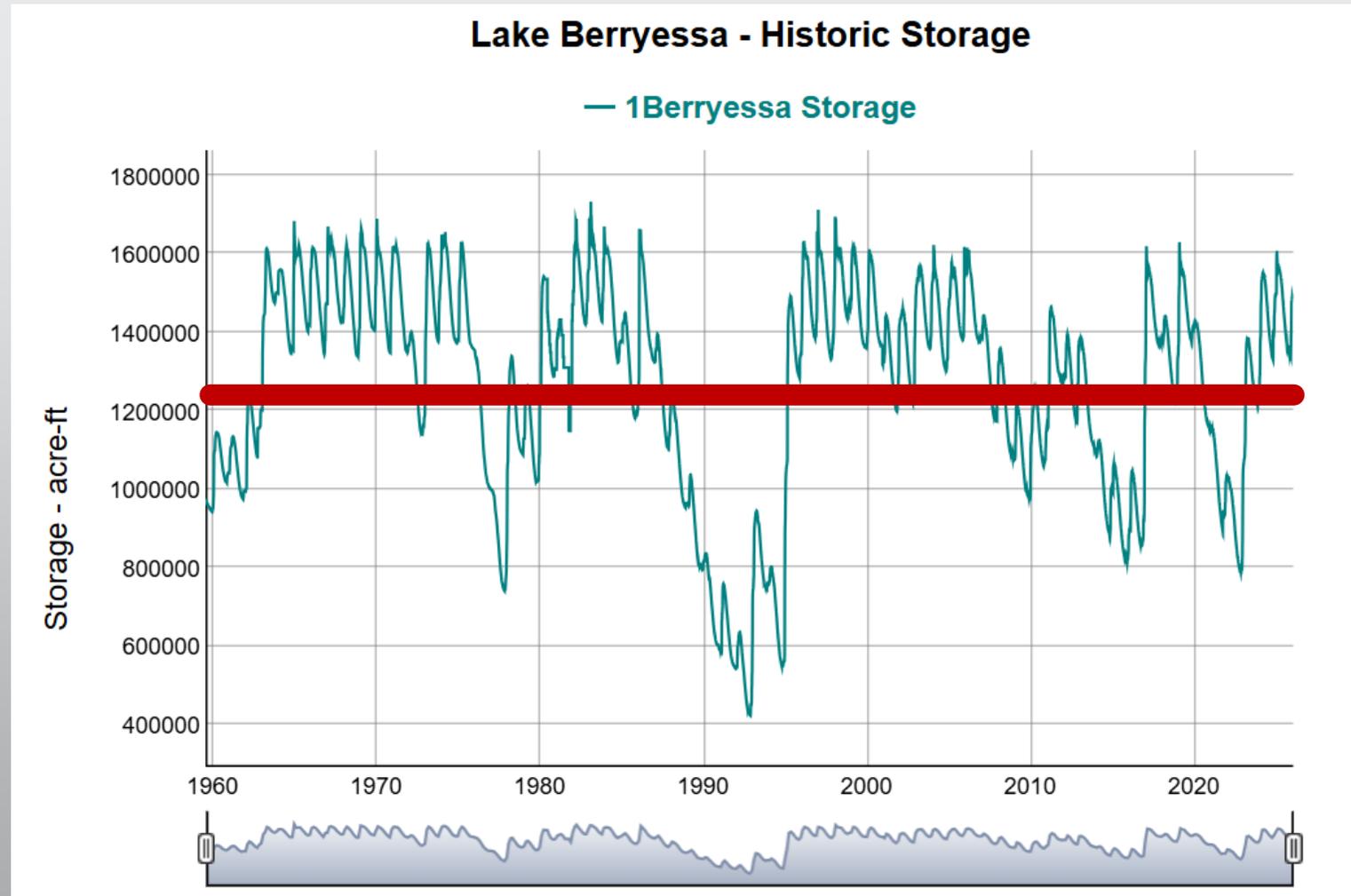


1.55 MAF Max

# Lake Berryessa Today

Tues 8pm -437.7' or  
1.505MAF  
2.3' from Spilling

# Reliability of Lake Berryessa





# **This Reliability Will Change Under the Draft Bay-Delta Plan**



# Who is the SWRCB?



## State Water Resources Control Board (SWRCB)

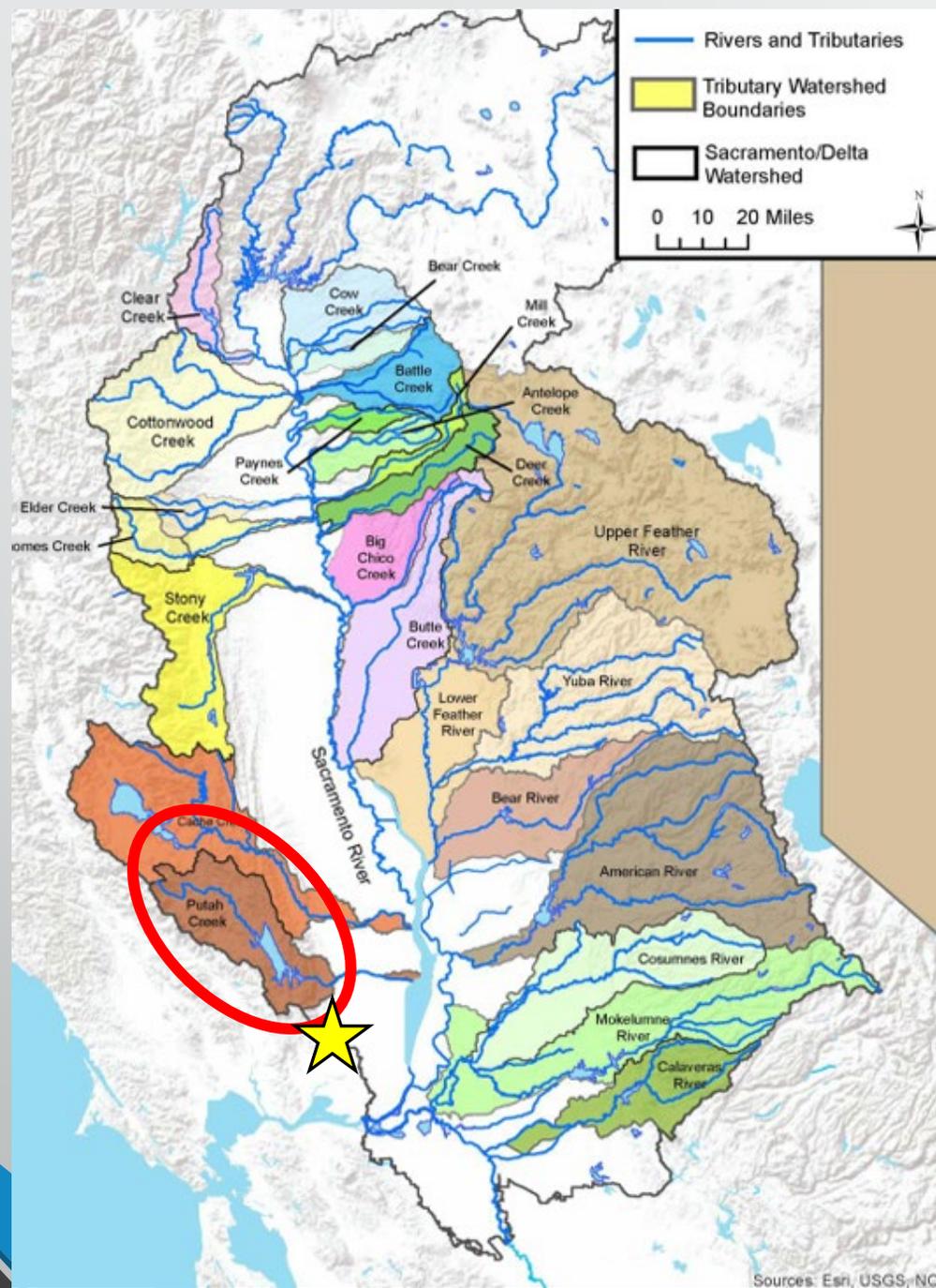
Protect Water Quality & Allocate Water Rights

### Mission

The State Water Resources Control Board's mission is to **preserve, enhance, and restore the quality of California's water resources and drinking water for the protection of the environment, public health, and all beneficial uses**, and to ensure proper water resource allocation and efficient use, for the benefit of present and future generations.

### Bay Delta Plan

Protecting the San Francisco Bay/Sacramento-San Joaquin Delta (Bay-Delta) watershed and its many beneficial uses is one of the State Water Board's primary responsibilities and top priorities. **The State Water Board is responsible for adopting and updating the Bay-Delta Water Quality Control Plan (Bay-Delta Plan), which establishes water quality control measures and flow requirements needed to provide reasonable protection of beneficial uses in the watershed.**



## Sac River Watersheds

- 24 Major Watersheds
- Putah Creek = 1%

# Key Concerns w/ Bay-Delta Plan

1. Significant Reductions in Local Water Supply
2. Increased Groundwater Overdraft
3. Putah Creek Operations are Already Delivering Results
4. Loss of Local Control and Increased Uncertainty

# Changes from Last Bay-Delta Update

Two Paths:

1. HRL's (VA's)

2. Regulatory Pathway

a) 55% w/WSA Unpaired Flow Criteria (January 1 through June 31)

b) Carryover Storage Requirement in Lake Berryessa to ensure water delivered downstream is as cold as possible. (Trout & Salmon)

1. Ranges from 500-700TAF to 700TAF - 1 MAF.

# Significant Reductions in Local Water Supply

Summary of Tables A and B for Years 2005-2024						
Table	Description	% of Years Occurs			Reduction in Entitlement	
		Zero Water Available	Less than 100%	Less than 50%	Total For 20 Year Period (TAF)	Average Annual (TAF)
<i>55% WSA UIF (Table 5)</i>						
A	Carryover per lower limit Table 8	10%	65%	25%	1,216	60.8
B	Carryover per upper limit Table 8	20%	70%	40%	1,819	91.0

# Increased Groundwater Overdraft

1. Assumes no additional pumping (not going to happen)
2. Reduced recharge
3. Risk recreating overdraft conditions the SP was originally built to resolve

# Groundwater Impacts - Storage

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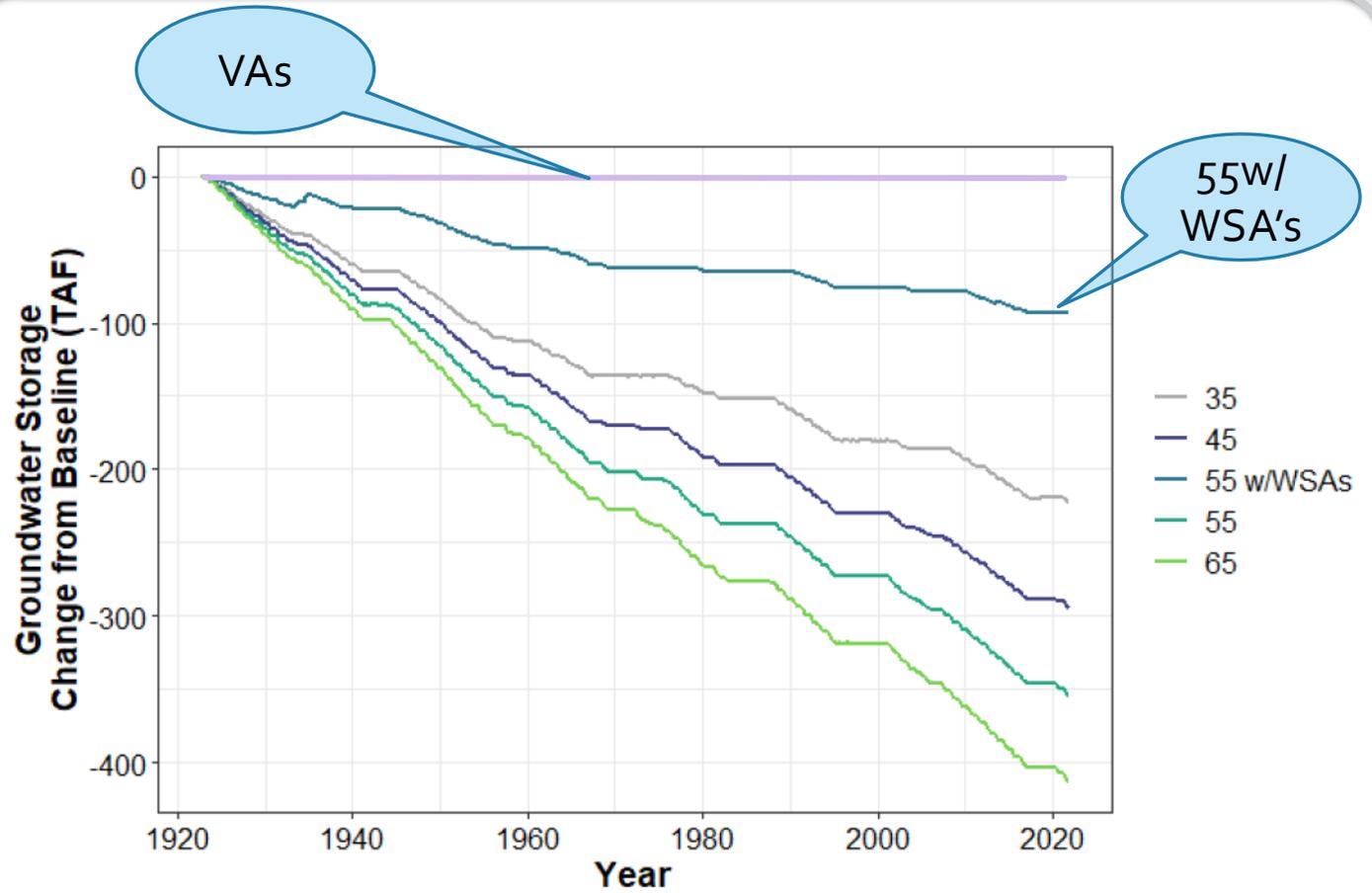


Figure H1a3-247. Suisun Groundwater Basin End of Year Storage—Change from Baseline (TAF)

# Putah Creek Operations are Already Delivering Results (HRL Path)

1. Fish populations continue to increase (record Salmon this yr)
2. Significant in-stream flows are already provided
3. Ave 51% UIF over 20 yrs
4. Driven by 80%-245% UIF; mostly in BN to C years

**Table F- Actual Inflow / Outflow Volumes in AF & % UIF\* and % UIF under Additional Flow Volumes Provided under HRL Pathway**

Year	Calculated Inflow Volume (AF)	Actual Operational Conditions		Actual Operational Conditions with Inclusion of HRL Additional Flow Commitments			State Water Type Class
		Total Lower Putah Creek Volume (AF)	% UIF of Lower Putah Ck Flow	Additional Volumes per HRL	Total LPC Flow Volume Including Additional HRL Commitments	% of UIF Lower Putah Ck Flow w/ HRL Commitments	
2004							BN
2005	295,599	114,423	39%	6,000	120,423	41%	AN
2006	364,306	709,156	195%	6,000	715,156	196%	BN
2007	74,507	22,523	30%	6,000	28,523	38%	D
2008	193,240	32,519	17%	7,000	39,519	20%	C
2009	150,520	32,968	22%	6,000	38,968	26%	D
2010	289,928	34,319	12%	6,000	40,319	14%	BN
2011	408,694	37,089	9%	6,000	43,089	11%	W
2012	142,877	33,648	24%	6,000	39,648	28%	BN
2013	217,396	33,483	15%	6,000	39,483	18%	D
2014	46,841	38,210	82%	7,000	45,210	97%	C
2015	192,157	39,178	20%	7,000	46,178	24%	C
2016	245,341	40,131	16%	6,000	46,131	19%	BN
2017	789,178	340,699	43%	6,000	346,699	44%	W
2018	89,731	32,261	36%	6,000	38,261	43%	BN
2019	422,584	342,639	81%	6,000	348,639	83%	W
2020	54,009	31,507	58%	6,000	37,507	69%	D
2021	14,490	35,549	245%	7,000	42,549	294%	C
2022	147,029	33,566	23%	7,000	40,566	28%	C
2023	599,311	53,574	9%	6,000	59,574	10%	W
		<b>Average</b>	<b>51%</b>		<b>Average</b>	<b>58%</b>	
Notes:	* Outflow volumes are measured at the Putah Diversion Dam into Lower Putah Creek						

# Loss of Local Control and Increased Uncertainty

1. Draft Plan gives State Board broad authority over annual operations, temp management, & storage decisions
2. Creates year to year uncertainty that undermines ability to plan for:
  - Households
  - Farms
  - Businesses
  - Public Agencies

# Some Planning Thoughts

- What is your definition of success in years?
  - <8 years? HRL 8 yr term
  - >8 years? More uncertainty
- M&I potable surface water connections vs. groundwater
  - Even with curtailments, probably will provide basic water for life safety

# Some Good News

- Draft Bay-Delta Plan is not yet adopted
- NCWA Stewardship Colloquium: Legislative Meetings
- State Board
  - Anticipate adopting HRLs as a pathway
  - Board interested in feedback on the updates provided, opportunity?
  - Will be scheduling a meeting
- Regardless – SID deeply committed to fighting for reliability
- Support the HRL Pathway

Thank You







**TABLE A - Cumulative volumes -- Bay-Delta Plan December 2025 WQCP: Variable 0% - 55% UIF +Variable Carryover Limits - Accounting for Cumulative Storage - Lower Table 8 Range (500-700TAF)**

Water Year Data in Lake Berryessa Last 20 Years														Lower Table 8 Range											
Year	State Water Type Class. [1]	End of September Volume (from record)	CUMULATIVE end of September Volume	April 1 Volume - Estimated from total inflow no reduction for evap or accord flows as is already accounted for	volume over 1.55 million	Adjusted Tributary-Specific WSAs for Putah Creek. This is based on April 1 Volume. [3]	Percent UIF	UIF Volume	Volume after June subtracting UIF	Volume Fraction at June	Calculated Inflow [2]	Estimated Unimpaired Flow for the Year [4]	Is this a Drought Year (D and C Years)	Minimum Storage in Lake Berryessa	Volume SP Customers can Divert in the Identified Water Year based on June Volume	Maximum Customer Diversion	Absolute Maximum Customer Diversion	Years w/Zero Water Allocation	Years w/Less Than 100% Water Allocation	% of Allocation	Years w less than 50% Water Allocation	Entitlement Deficit (AF)			
2004	BN	1,324,066				0.00	35%																		
2005	AN	1,404,828	1,404,828	1,700,427	150,427	1.10	55%	162,579	1,537,848	0.99	295,599	162,579	No	700,000	837,848	200,000	200,000	0	0	100%	0	0			
2006	BN	1,397,605	1,261,848	1,626,154	76,154	1.05	55%	200,368	1,425,785	0.92	364,306	200,368	No	700,000	725,785	200,000	200,000	0	0	100%	0	0			
2007	D	1,200,365	1,149,785	1,224,292	0	0.79	35%	26,077	1,198,215	0.77	74,507	26,077	Yes	500,000	698,215	200,000	200,000	0	0	100%	0	0			
2008	C	1,110,470	922,215	1,115,455	0	0.72	35%	67,634	1,047,821	0.68	193,240	67,634	Yes	500,000	547,821	200,000	200,000	0	0	100%	0	0			
2009	D	1,001,530	771,821	922,341	0	0.60	35%	52,682	869,659	0.56	150,520	52,682	Yes	500,000	369,659	200,000	200,000	0	0	100%	0	0			
2010	BN	1,083,443	593,659	883,587	0	0.57	35%	101,475	782,112	0.50	289,928	101,475	No	700,000	82,112	82,112	82,112	0	1	41%	1	-117,888			
2011	W	1,302,315	624,000	1,032,694	0	0.67	35%	143,043	889,651	0.57	408,694	143,043	No	700,000	189,651	189,651	189,651	0	1	95%	0	-10,349			
2012	BN	1,194,273	624,000	766,877	0	0.49	0%	0	766,877	0.49	142,877	0	No	700,000	66,877	66,877	66,877	0	1	33%	1	-133,123			
2013	D	1,137,274	624,000	841,396	0	0.54	0%	0	841,396	0.54	217,396	0	Yes	500,000	341,396	200,000	200,000	0	0	100%	0	0			
2014	C	910,138	565,396	612,238	0	0.39	0%	0	612,238	0.39	46,841	0	Yes	500,000	112,238	112,238	112,238	0	1	56%	0	-87,762			
2015	C	838,709	424,000	616,157	0	0.40	0%	0	616,157	0.40	192,157	0	Yes	500,000	116,157	116,157	116,157	0	1	58%	0	-83,843			
2016	BN	864,518	424,000	669,341	0	0.43	0%	0	669,341	0.43	245,341	0	No	700,000	-30,659	-30,659	0	1	0%	1	-200,000				
2017	W	1,394,898	593,341	1,382,519	0	0.89	35%	276,212	1,106,307	0.71	789,178	276,212	No	700,000	406,307	200,000	200,000	0	0	100%	0	0			
2018	BN	1,262,964	830,307	920,037	0	0.59	35%	31,406	888,632	0.57	89,731	31,406	No	700,000	188,632	188,632	188,632	0	1	94%	0	-11,368			
2019	W	1,408,445	624,000	1,046,584	0	0.68	35%	147,904	898,680	0.58	422,584	147,904	No	700,000	198,680	198,680	198,680	0	1	99%	0	-1,320			
2020	D	1,200,535	624,000	678,009	0	0.44	0%	0	678,009	0.44	54,009	0	Yes	500,000	178,009	178,009	178,009	0	1	89%	0	-21,991			
2021	C	909,924	424,000	438,490	0	0.28	0%	0	438,490	0.28	14,490	0	Yes	500,000	-61,510	-61,510	0	1	0%	1	-200,000				
2022	C	818,704	362,490	509,519	0	0.33	0%	0	509,519	0.33	147,029	0	Yes	500,000	9,519	9,519	9,519	0	1	5%	1	-190,481			
2023	W	1,242,909	424,000	1,023,311	0	0.66	35%	209,759	813,552	0.52	599,311	209,759	No	700,000	113,552	113,552	113,552	0	1	57%	0	-86,448			
2024	W	1,363,094	624,000	938,000	0	0.61	35%	109,900	828,100	0.53	314,000	109,900	No	700,000	128,100	128,100	128,100	0	1	64%	0	-71,900			
											252,587	76,452							Percent of Years	10%	65%	25%			
[1]	The five standard water year types are: Wet, Above Normal, Below Normal, Dry, and Critical (or Critically Dry).										Total UIF	1,529,040										Average	70%	Total Deficit	-1,216,474
[2]	This is the calculated inflow using daly storage volumes calc'd by ChatGPT (estimated for year 2024) and random checks on results																								
[3]	Tributary-specific WSAs: apply for specified rainfall dominated and municipal supply dominated tributaries based on local storage conditions as defined in Table 5 which reduce or remove the flow requirements during low storage. <b>This is a conservative approach and under reports UIF for the year in some cases as noted by cumulative end of September Volumes dropping below the WSA</b>																								
[4]	Although the WQCP stated this is a monthly, this model converted it to annual for calculation purposes.																								
[5]	This is the max diversions																								

**TABLE B - Cumulative volumes -- Bay-Delta Plan December 2025 WQCP: Variable 0% - 55% UIF +Variable Carryover Limits - Accounting for Cumulative Storage - Upper Table 8 Range (700-1,000TAF)**

Water Year Data in Lake Berryessa Last 20 Years													Upper Table 8 Range															
Year	State Water Type Class. [1]	End of September Volume (from record)	CUMULATIVE end of September Volume (uses 2/3 of evap and accord flow)	April 1 Volume - Estimated from total inflow no reduction for evap or accord flows as is already accounted for	volume over 1.55 million	Adjusted Tributary-Specific WSAs for Putah Creek. This is based on April 1 Volume. [3]	Percent UIF	UIF Volume	Volume after June subtracting UIF	Volume Fraction at June	Calculated Inflow [2]	Estimated Unimpaired Flow for the Year [4]	Is this a Drought Year (D and C Years)	Minimum Storage in Lake Berryessa	Volume SP Customers can Divert in the Identified Water Year based on June Volume	Maximum Customer Diversion	Absolute Maximum Customer Diversion	Years w/Zero Water Allocation	Years w/Less Than 100% Water Allocation	% of Allocation	Years w less than 50% Water Allocation	Entitlement Deficit (AF)						
2004	BN	1,324,066				0.00	35%																					
2005	AN	1,404,828	1,404,828	1,700,427	150,427	1.10	55%	162,579	1,537,848	0.99	295,599	162,579	No	1,000,000	537,848	200,000	200,000	0	0	100%	0	0						
2006	BN	1,397,605	1,261,848	1,626,154	76,154	1.05	55%	200,368	1,425,785	0.92	364,306	200,368	No	1,000,000	425,785	200,000	200,000	0	0	100%	0	0						
2007	D	1,200,365	1,149,785	1,224,292	0	0.79	35%	26,077	1,198,215	0.77	74,507	26,077	Yes	700,000	498,215	200,000	200,000	0	0	100%	0	0						
2008	C	1,110,470	922,215	1,115,455	0	0.72	35%	67,634	1,047,821	0.68	193,240	67,634	Yes	700,000	347,821	200,000	200,000	0	0	100%	0	0						
2009	D	1,001,530	771,821	922,341	0	0.60	35%	52,682	869,659	0.56	150,520	52,682	Yes	700,000	169,659	169,659	169,659	0	1	85%	0	-30,341						
2010	BN	1,083,443	624,000	913,928	0	0.59	35%	101,475	812,453	0.52	289,928	101,475	No	1,000,000	-187,547	-187,547	0	1	0%	1	-200,000							
2011	W	1,302,315	736,453	1,145,147	0	0.74	35%	143,043	1,002,104	0.65	408,694	143,043	No	1,000,000	2,104	2,104	2,104	0	1	1%	1	-197,896						
2012	BN	1,194,273	924,000	1,066,877	0	0.69	35%	50,007	1,016,870	0.66	142,877	50,007	No	1,000,000	16,870	16,870	16,870	0	1	8%	1	-183,130						
2013	D	1,137,274	924,000	1,141,396	0	0.74	35%	76,089	1,065,308	0.69	217,396	76,089	Yes	700,000	365,308	200,000	200,000	0	0	100%	0	0						
2014	C	910,138	789,308	836,149	0	0.54	0%	0	836,149	0.54	46,841	0	Yes	700,000	136,149	136,149	136,149	0	1	68%	0	-63,851						
2015	C	838,709	624,000	816,157	0	0.53	0%	0	816,157	0.53	192,157	0	Yes	700,000	116,157	116,157	116,157	0	1	58%	0	-83,843						
2016	BN	864,518	624,000	869,341	0	0.56	0%	0	869,341	0.56	245,341	0	No	1,000,000	-130,659	-130,659	0	1	0%	1	-200,000							
2017	W	1,394,898	793,341	1,582,519	32,519	1.02	55%	434,048	1,148,471	0.74	789,178	434,048	No	1,000,000	148,471	148,471	148,471	0	1	74%	0	-51,529						
2018	BN	1,262,964	924,000	1,013,731	0	0.65	35%	31,406	982,325	0.63	89,731	31,406	No	1,000,000	-17,675	-17,675	0	1	0%	1	-200,000							
2019	W	1,408,445	906,325	1,328,909	0	0.86	35%	147,904	1,181,005	0.76	422,584	147,904	No	1,000,000	181,005	181,005	181,005	0	1	91%	0	-18,995						
2020	D	1,200,535	924,000	978,009	0	0.63	35%	18,903	959,106	0.62	54,009	18,903	Yes	700,000	259,106	200,000	200,000	0	0	100%	0	0						
2021	C	909,924	683,106	697,596	0	0.45	0%	0	697,596	0.45	14,490	0	Yes	700,000	-2,404	-2,404	0	1	0%	1	-200,000							
2022	C	818,704	621,596	768,625	0	0.50	0%	0	768,625	0.50	147,029	0	Yes	700,000	68,625	68,625	68,625	0	1	34%	1	-131,375						
2023	W	1,242,909	624,000	1,223,311	0	0.79	35%	209,759	1,013,552	0.65	599,311	209,759	No	1,000,000	13,552	13,552	13,552	0	1	7%	1	-186,448						
2024	W	1,363,094	924,000	1,238,000	0	0.80	35%	109,900	1,128,100	0.73	314,000	109,900	No	1,000,000	128,100	128,100	128,100	0	1	64%	0	-71,900						
											252,587	91,594							Percent of Years	20%	70%	40%						
											Total UIF	1,831,874								Average	55%	Total Deficit	-1,819,308					
[1]	The five standard water year types are: Wet, Above Normal, Below Normal, Dry, and Critical (or Critically Dry).																											
[2]	This is the calculated inflow using daly storage volumes calc'd by ChatGPT (estimated for year 2024) and random checks on results																											
[3]	Tributary-specific WSAs: apply for specified rainfall dominated and municipal supply dominated tributaries based on local storage conditions as defined in Table 5 which reduce or remove the flow requirements during low storage. <b>This is a conservative approach and under reports UIF for the year in some cases as noted by cumulative end of September Volumes dropping below the WSA</b>																											
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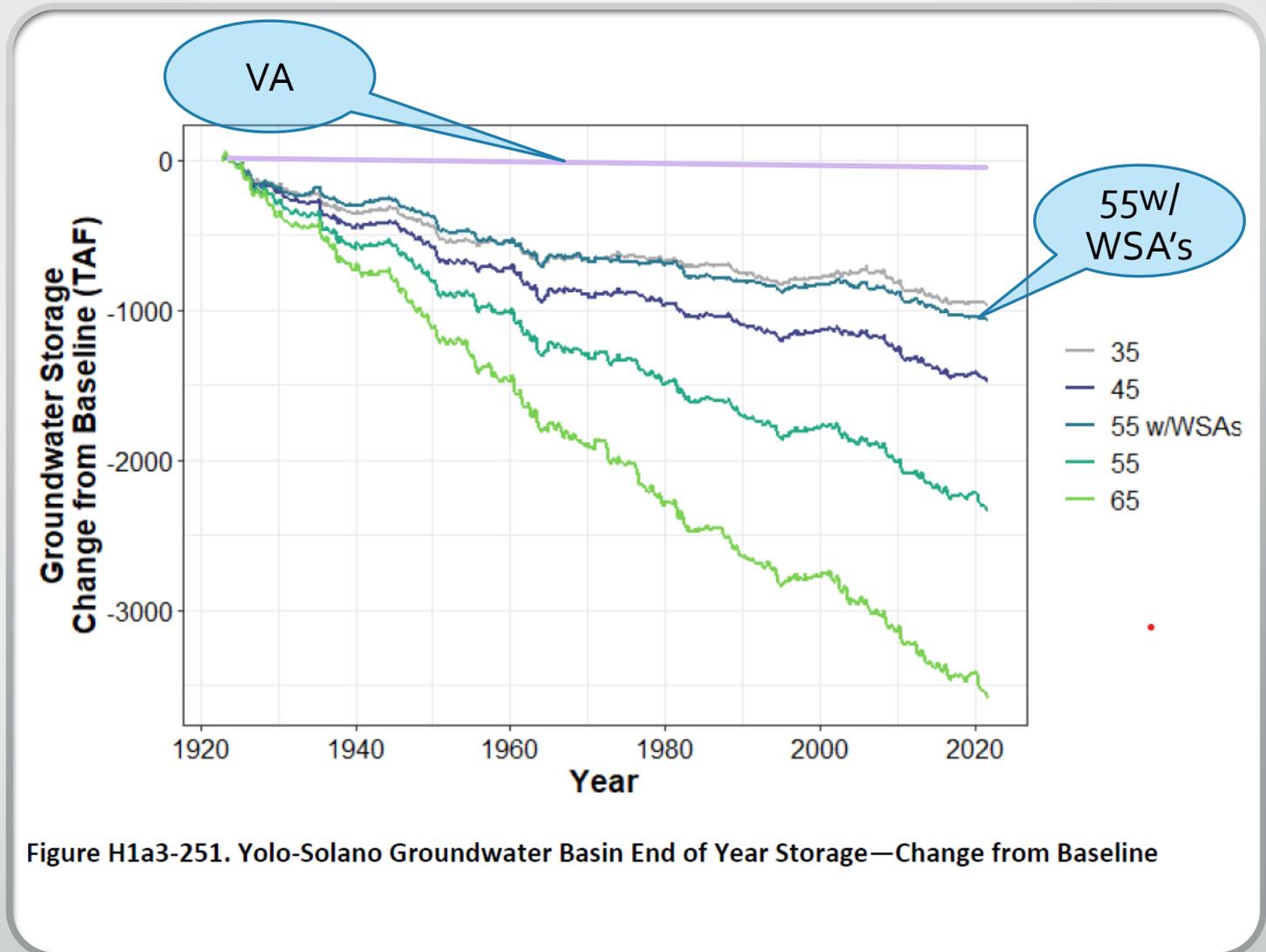


Figure H1a3-251. Yolo-Solano Groundwater Basin End of Year Storage—Change from Baseline