



State Water Resources Control Board
 Temporary Urgency Change Orders (10/31/2024)
 Russian River Hydrologic & Water Quality Report
 November 15, 2024 - November 21, 2024

Prepared as a requirement of the Orders approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

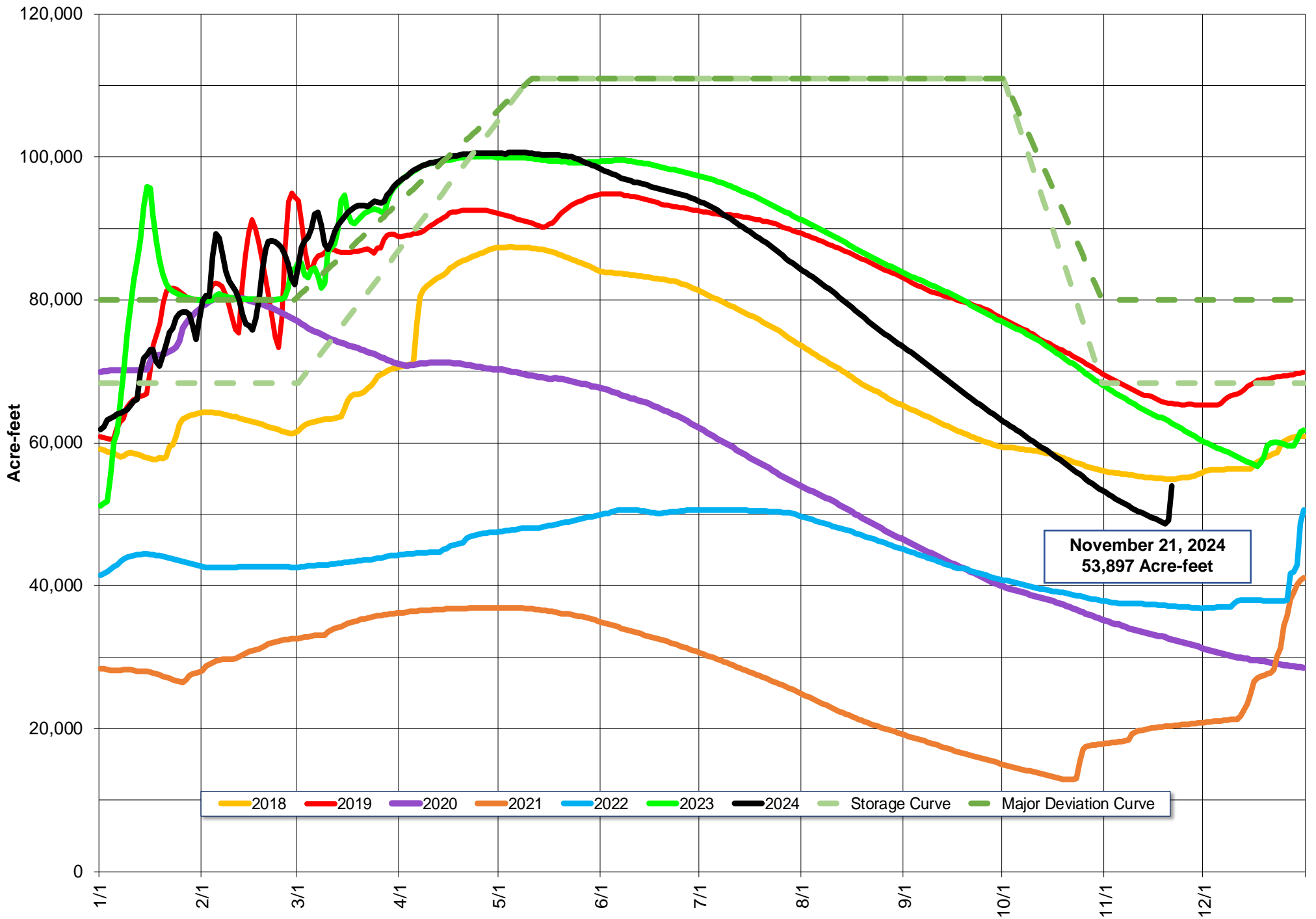
Instream Flow Requirements as of November 21, 2024

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Normal Condition	Upper Russian River	150	-
Modified Per Order: Normal Condition	Dry Creek	105	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Upper and Lower Russian River are based on criteria as established in the Order issued 10/31/2024.

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



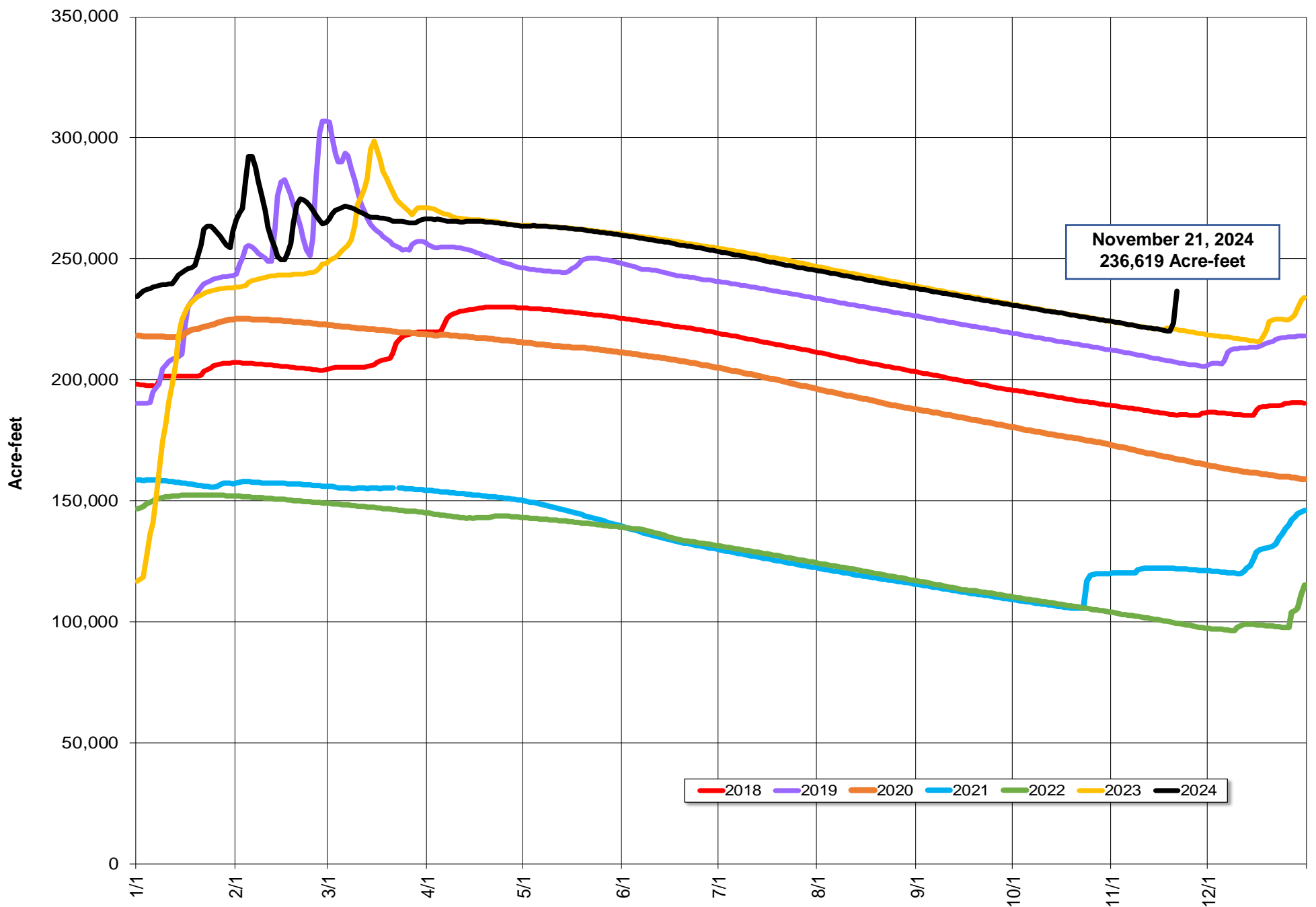
Storage (acre-feet)	November 21, 2024	53,897	
Change in Storage (acre-feet)	Last 30 days	-2,376	-79
	Last 7 days	4,324	618
Daily Inflow (cfs)	Last 7 days	Min	38
		Max	2,454
		Mean	441
Release (cfs)	Last 7 days	Min	84
		Max	158
		Mean	144

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	November 21, 2024	236,619	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		10,383	346
	Last 7 days	15,617	2,231
Daily Inflow (cfs)	Last 7 days	Min	0
		Max	6,725
		Mean	1,227
Release (cfs)	Last 7 days	Min	106
		Max	108
		Mean	106

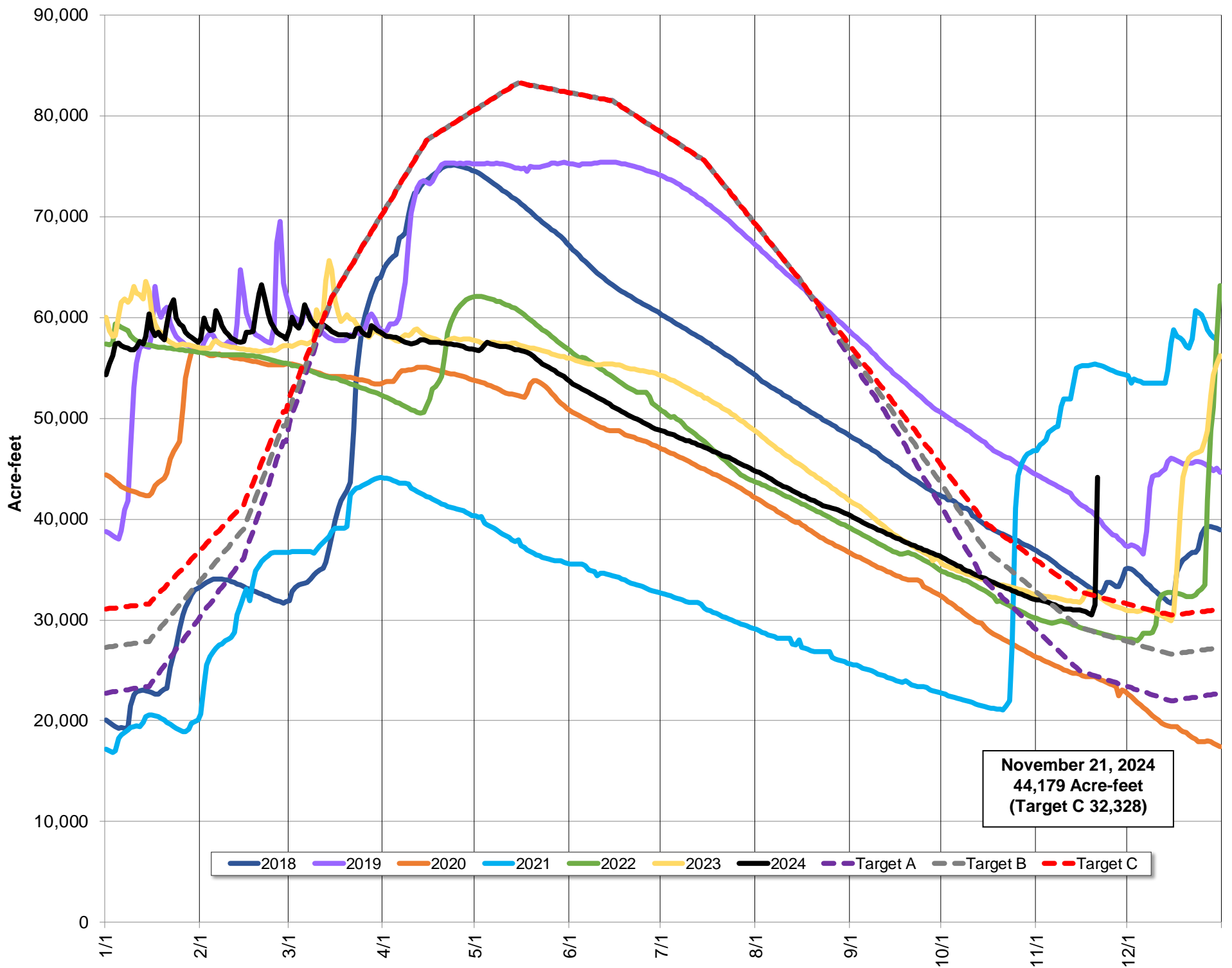
Potter Valley Project

PVP Diversion (cfs)	November 21, 2024	45
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - November 21, 2024	17,495	336
	Last 7 days	14,834	2,119

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios



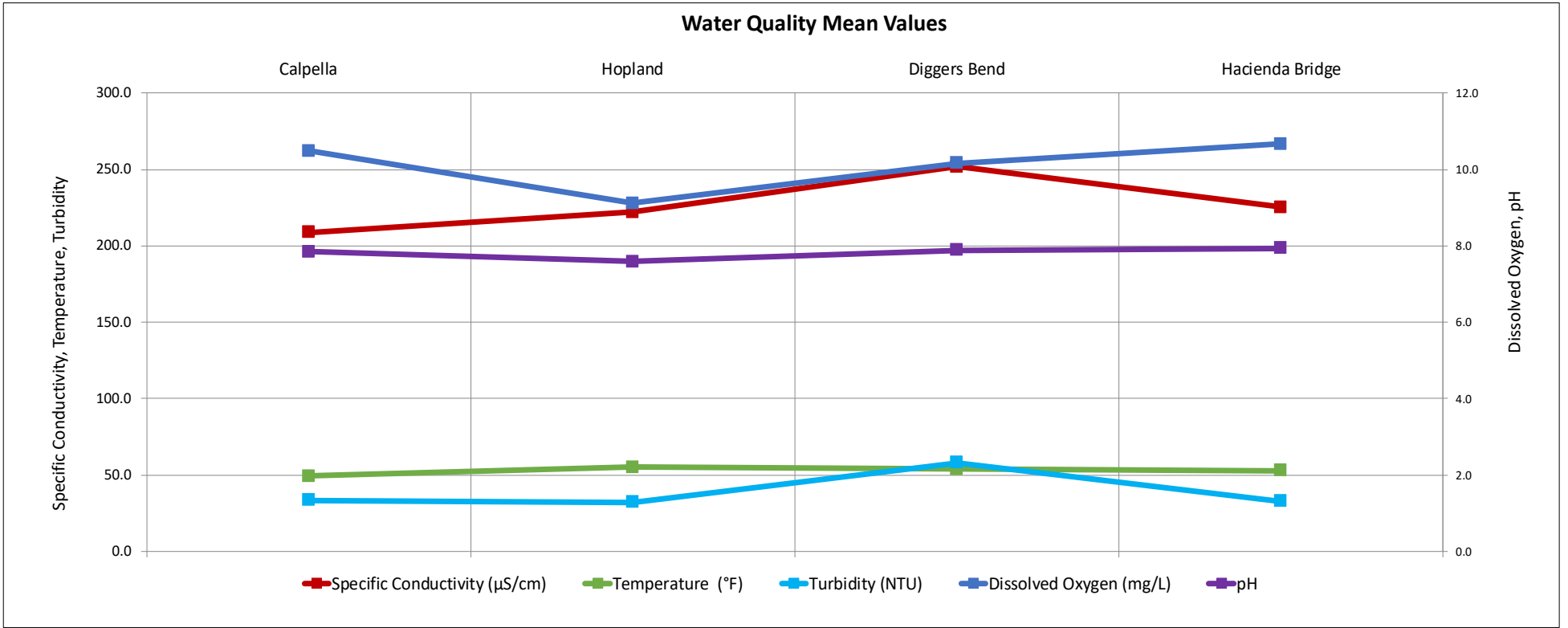
November 21, 2024
44,179 Acre-feet
(Target C 32,328)

Russian River Flows (November 15, 2024 - November 21, 2024)

Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	46.4	52.5		52.3	51.4		51.1	
	Max	53.8	57.6		56.8	56.5		55.4	
	Mean	49.2	54.9		54.3	53.8		52.9	
Specific Conductivity (µS/cm)	Min	72.0	79.0			91.0		117.0	
	Max	236.0	239.0			282.0		254.0	
	Mean	208.7	222.2			251.8		225.3	
Dissolved Oxygen (mg/L)	Min	0.8	0.5			8.7		9.5	
	Max	11.6	9.9			12.0		11.8	
	Mean	10.5	9.1			10.2		10.7	
Dissolved Oxygen (% Saturation)	Min	7.3	4.6			81.8		89.7	
	Max	100.3	91.3			112.8		108.8	
	Mean	91.7	86.0			94.6		98.1	
pH	Min	7.0	7.0			7.4		7.2	
	Max	8.1	7.9			8.3		8.2	
	Mean	7.9	7.6			7.9		7.9	
Turbidity (NTU)	Min	1.7	8.2			1.1		1.0	
	Max	893.0	563.0			514.0		302.0	
	Mean	33.2	32.1			57.8		32.6	

*Station operated seasonally

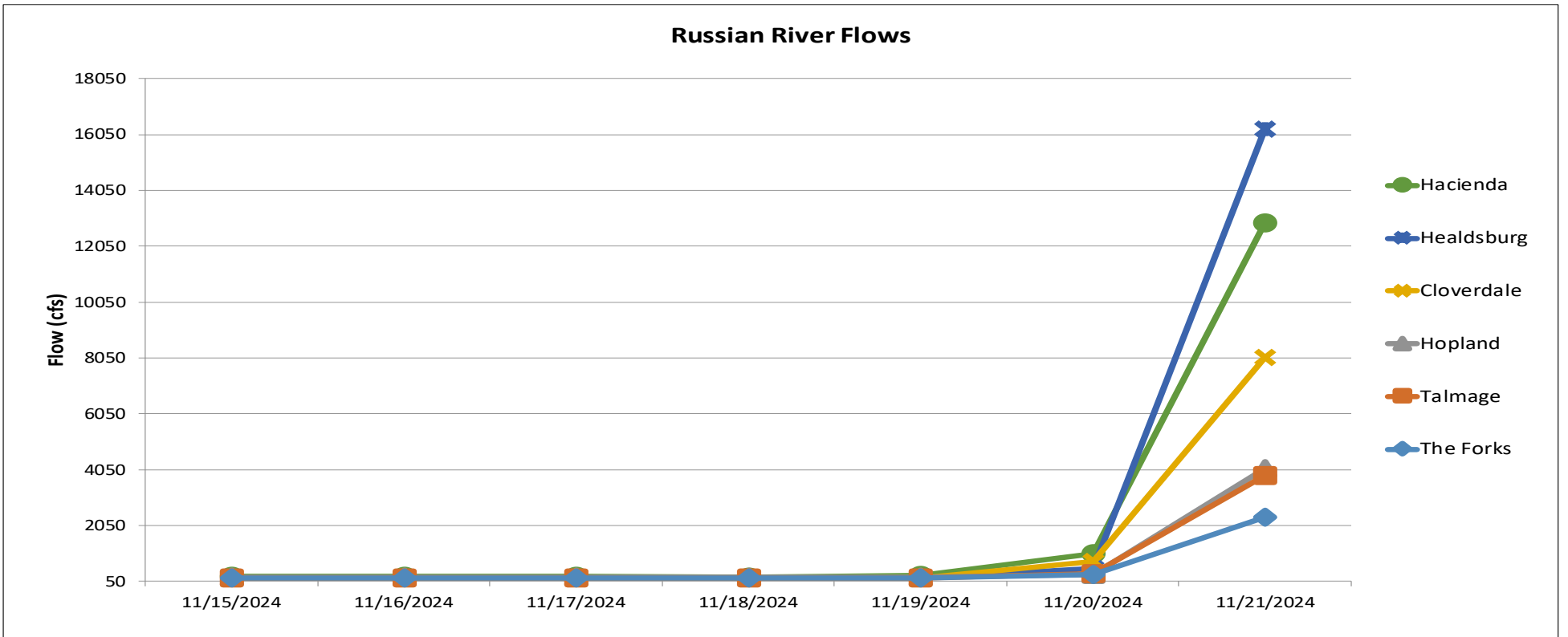
Water Quality Mean Values



Gage	24-hr Average Flow (cfs)						
	Nov 15, 2024	Nov 16, 2024	Nov 17, 2024	Nov 18, 2024	Nov 19, 2024	Nov 20, 2024	Nov 21, 2024
The Forks*	161	160	158	157	157	288	2343
Talmage USGS 11462080	164	162	160	159	159	336	3831
Hopland USGS 11462500	200	199	198	196	199	303	4092
Cloverdale USGS 11463000	173	169	168	167	167	766	8077
Healdsburg USGS 11464000	173	168	165	163	162	514	16233
Hacienda USGS 11467000	226	222	217	214	274	1029	12868

*West Fork(USGS 11461000) + East Fork (Coyote Valley Dam Release)

Russian River Flows

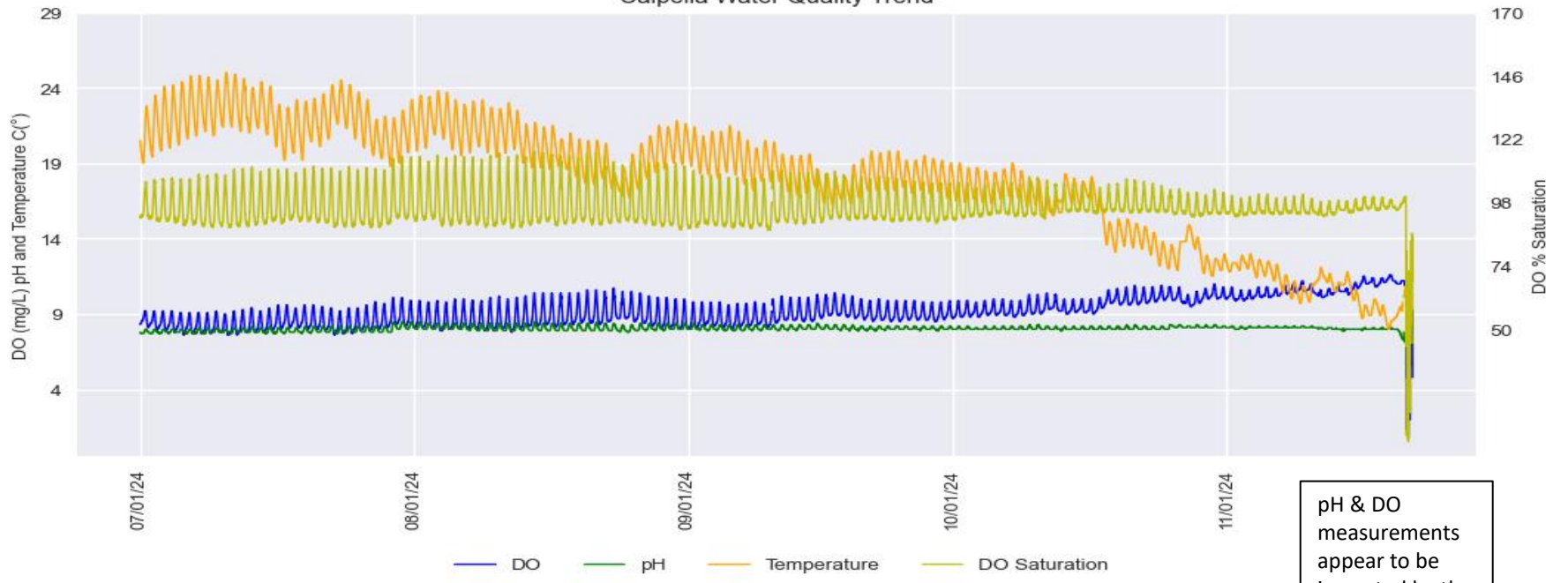


Russian River Water Quality July 1, 2024 – November 21, 2024

Provisional Data Subject to Revision

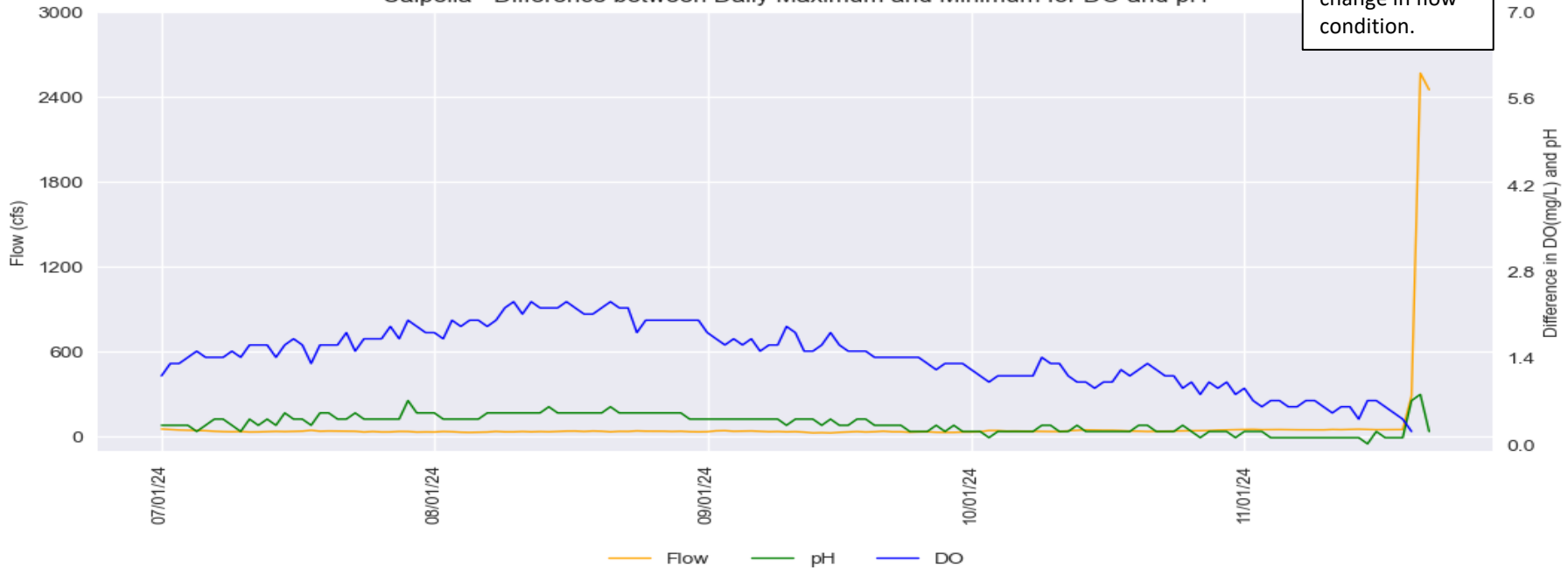
Calpella

Calpella Water Quality Trend



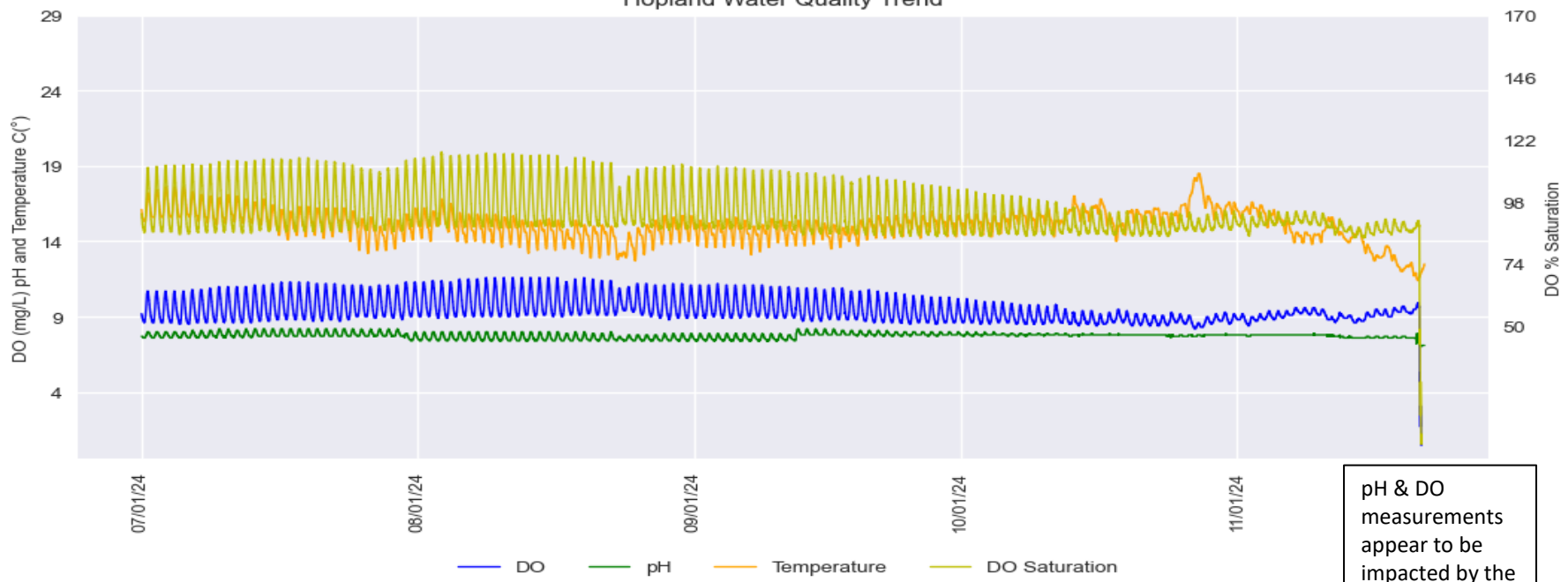
pH & DO measurements appear to be impacted by the change in flow condition.

Calpella - Difference between Daily Maximum and Minimum for DO and pH



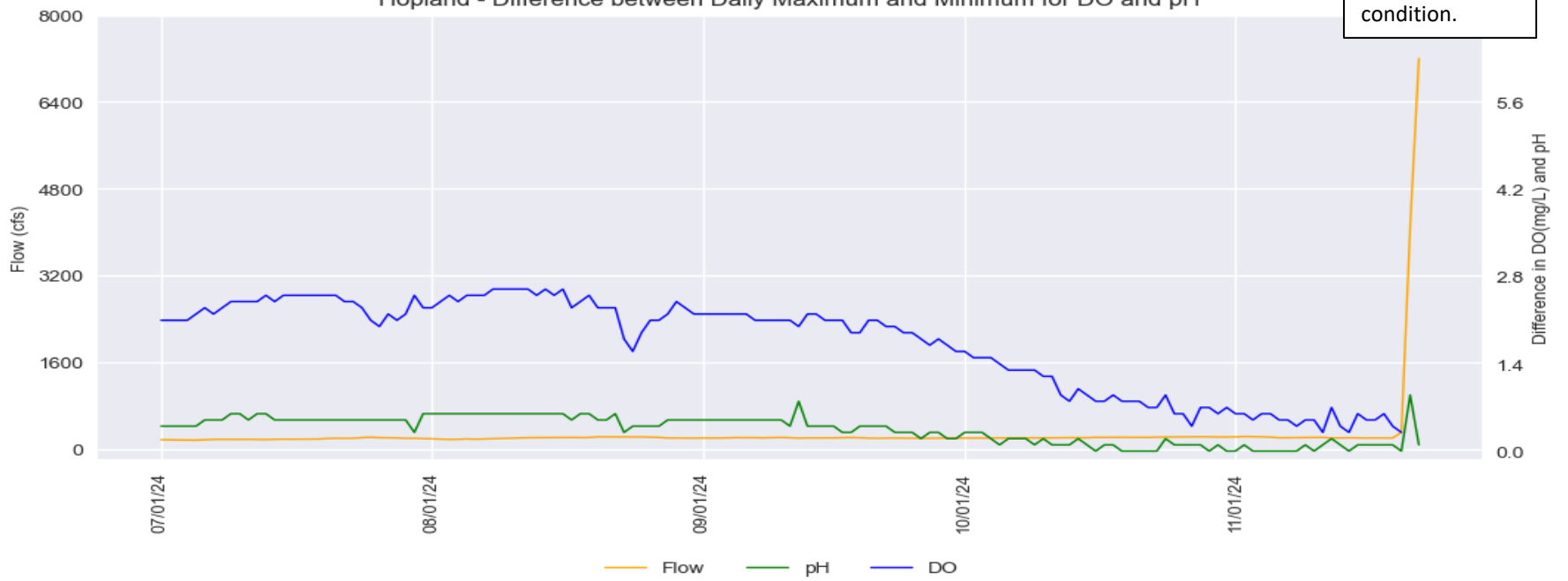
Hopland

Hopland Water Quality Trend



pH & DO measurements appear to be impacted by the change in flow condition.

Hopland - Difference between Daily Maximum and Minimum for DO and pH



Russian River Water Quality July 1, 2024 – November 21, 2024

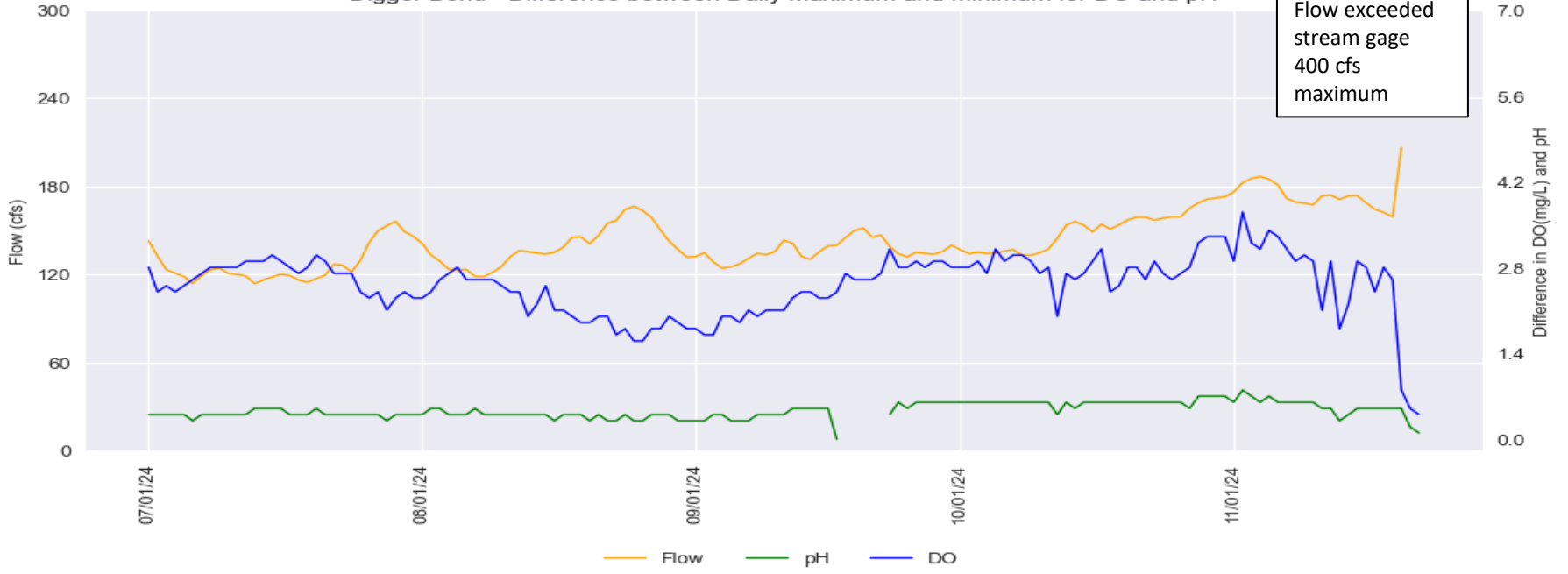
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

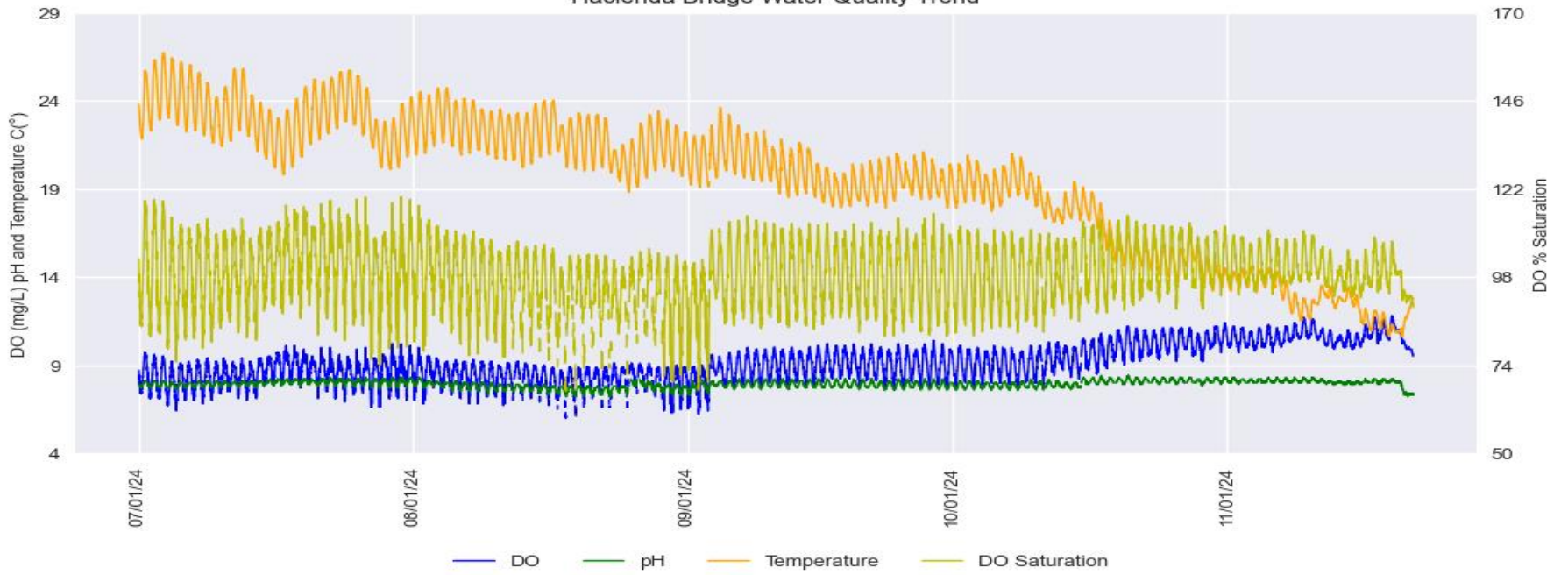


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

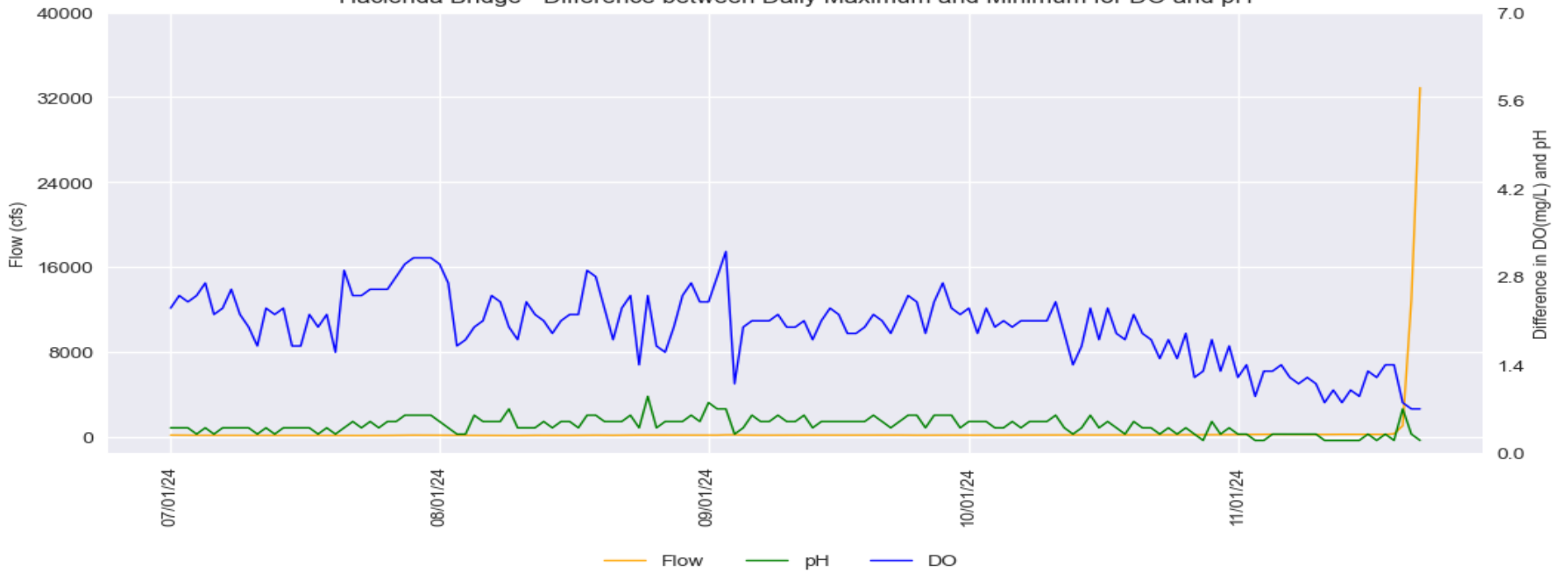


Hacienda Bridge

Hacienda Bridge Water Quality Trend



Hacienda Bridge - Difference between Daily Maximum and Minimum for DO and pH

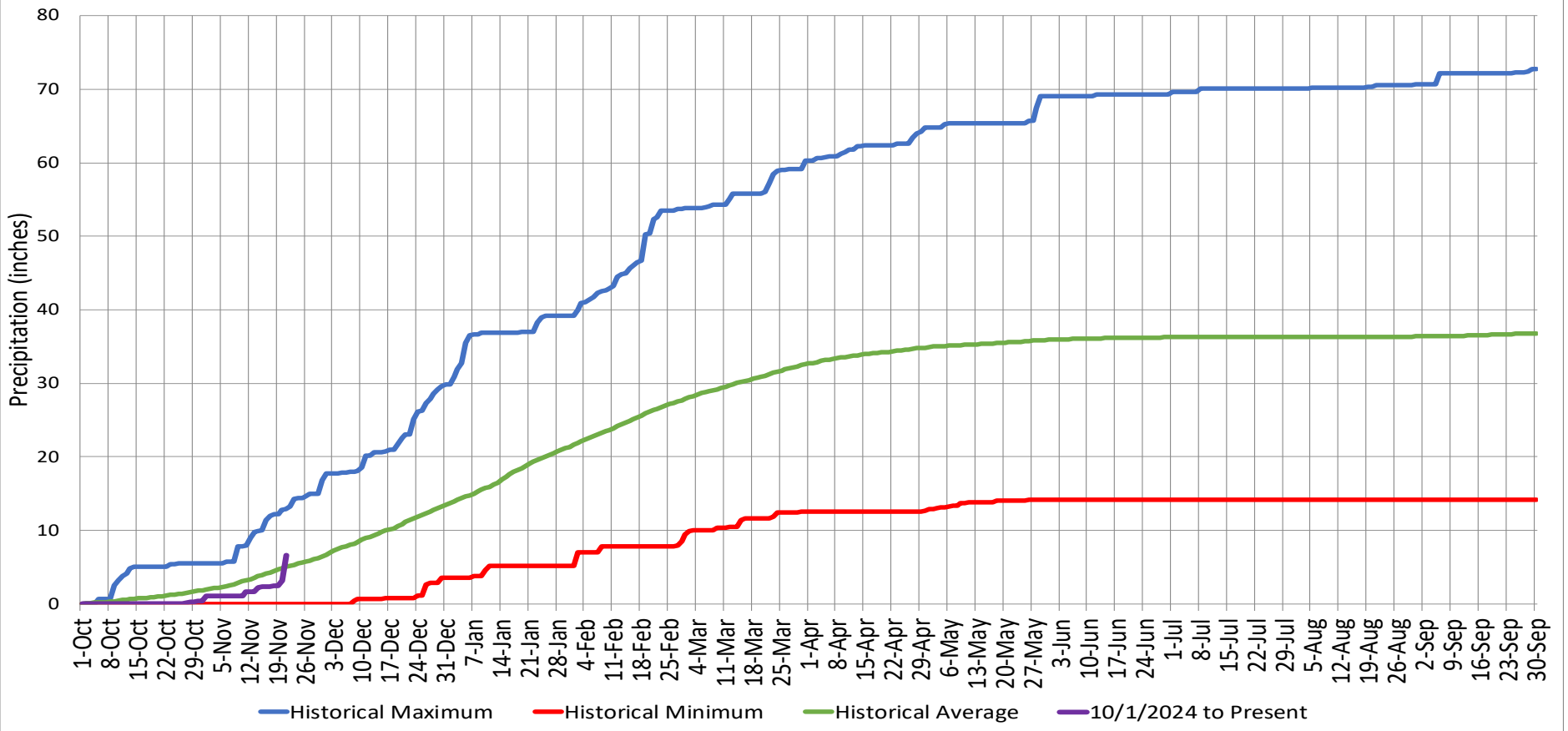


Precipitation

Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

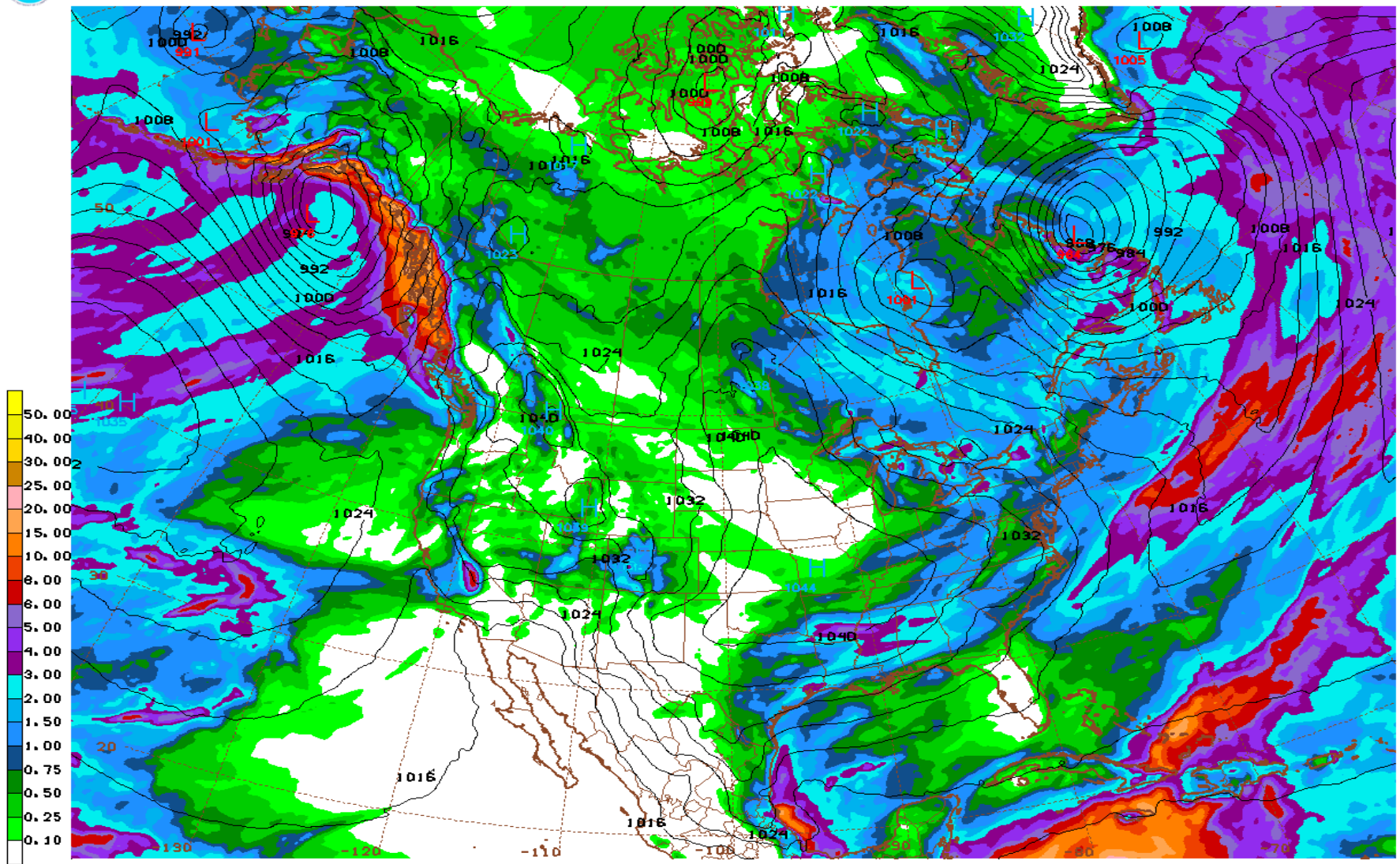
Date Range	Cumulative (inches)
Oct 1, 2024 - Nov 21, 2024	6.63
Last 7 Days*	4.44

Cumulative Precipitation Comparison of Current Year versus Historic Record



Global Forecast System Model 16-day Cumulative Precipitation Forecast

GFS 11/25/24 12UTC 384HR FCST VALID WED 12/11/24 12UTC NOAA/NWS/NCEP



GFS WED 241211/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Nov 25 - Dec 11, 2024

Forecasted Cumulative (inches)
0.50