



Sonoma Water

State Water Resources Control Board
 Temporary Urgency Change Order (12/27/2023)
 Russian River Hydrologic & Water Quality Report
 March 29, 2024 - April 4, 2024

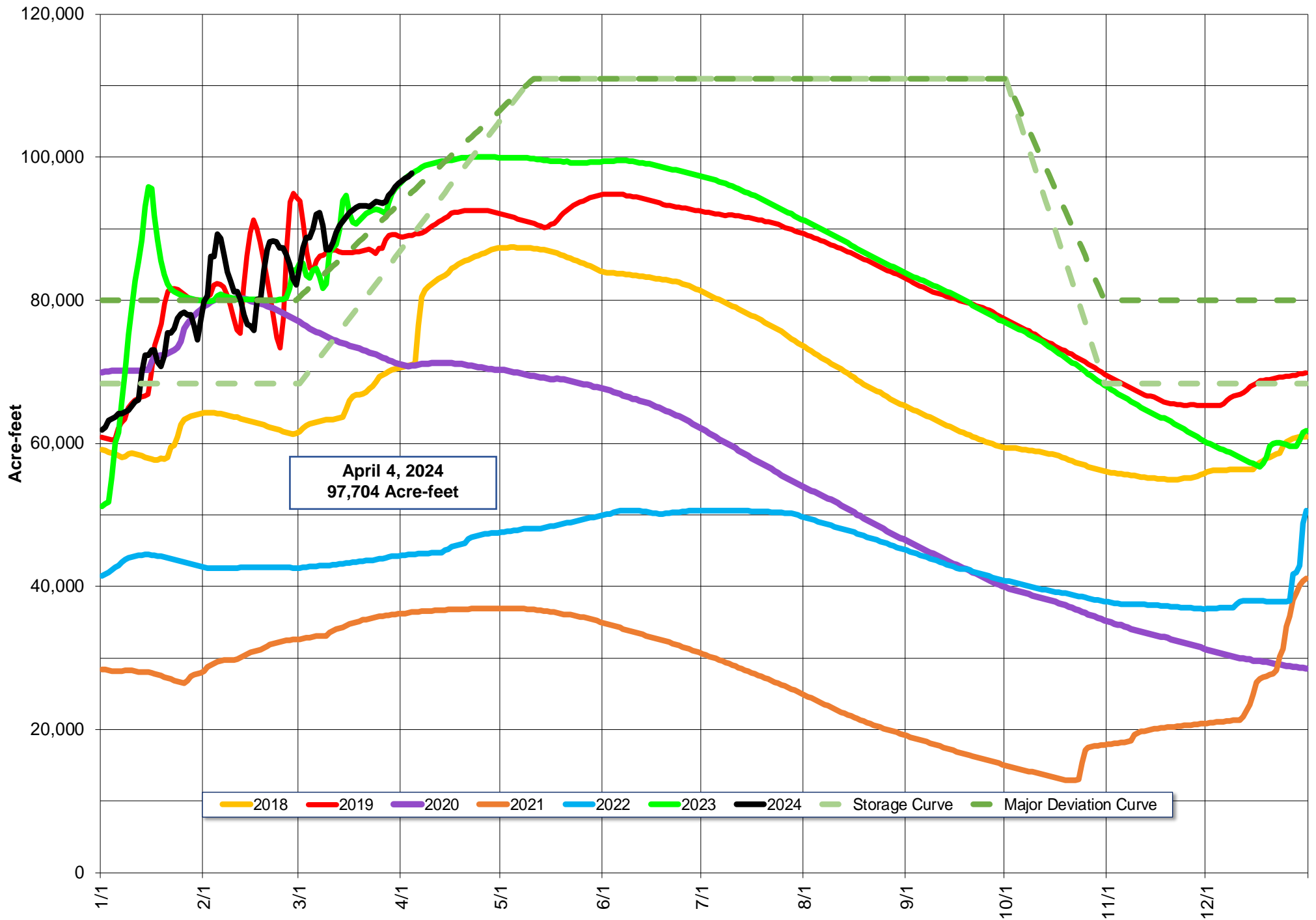
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

Instream Flow Requirements as of April 4, 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	75	-
Modified Per Order: Normal Condition	Lower Russian River	125	-

Lake Mendocino

Lake Mendocino Storage 2018 - 2024 and Storage Curve



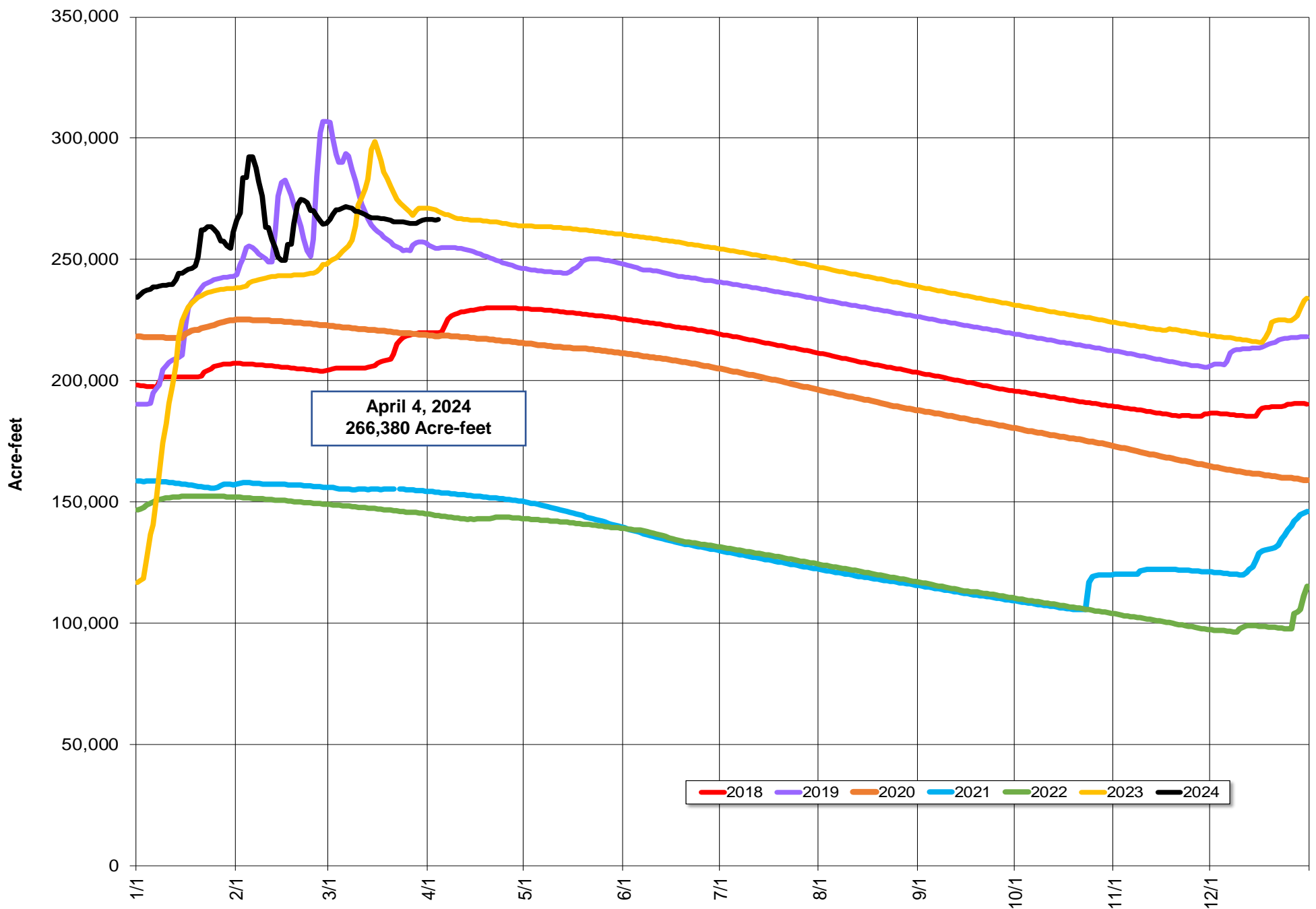
Storage (acre-feet)	April 4, 2024	97,704	
Change in Storage (acre-feet)	Last 30 days	7,743	258
	Last 7 days	2,538	363
Daily Inflow (cfs)	Last 7 days	Min	197
		Max	448
		Mean	293
Release (cfs)	Last 7 days	Min	73
		Max	151
		Mean	85

Lake Sonoma



Todd Schram, February 10, 2024

Lake Sonoma Storage 2018-2024



Storage (acre-feet)	April 4, 2024	266,380	
		Total	Average Daily Rate
Change in Storage (acre-feet)	Last 30 days	-4,803	-160
	Last 7 days	1,616	231
Daily Inflow (cfs)	Last 7 days	Min	348
		Max	863
		Mean	771
Release (cfs)	Last 7 days	Min	490
		Max	495
		Mean	493

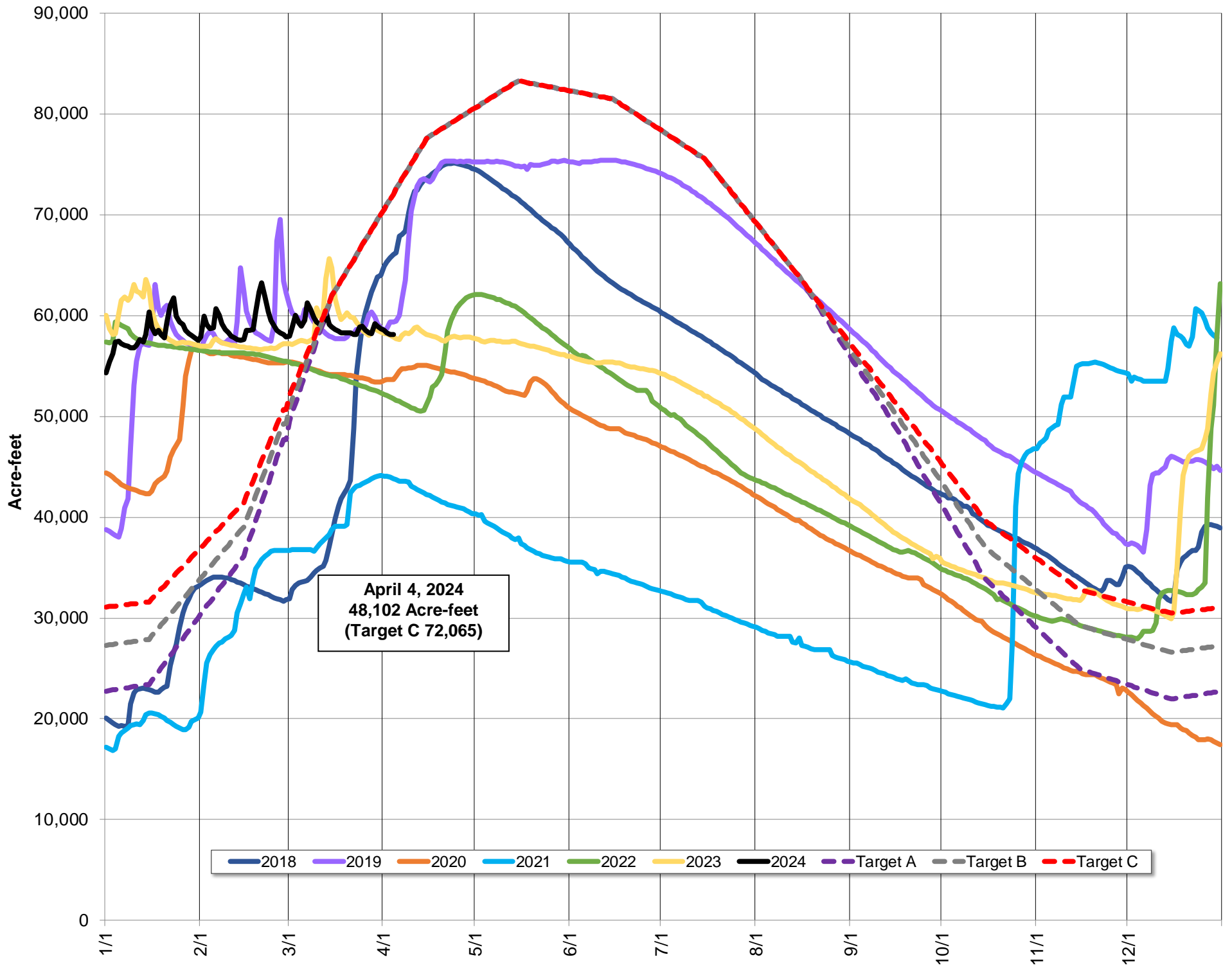
Potter Valley Project

PVP Diversion (cfs)	April 4, 2024	46
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Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2023 - April 4, 2024	415,031	2,219
	Last 7 days	17,411	2,487

*Inflow calculation based on criteria established in D1610

Lake Pillsbury Storage 2018 - 2024 and Target Storage Scenarios

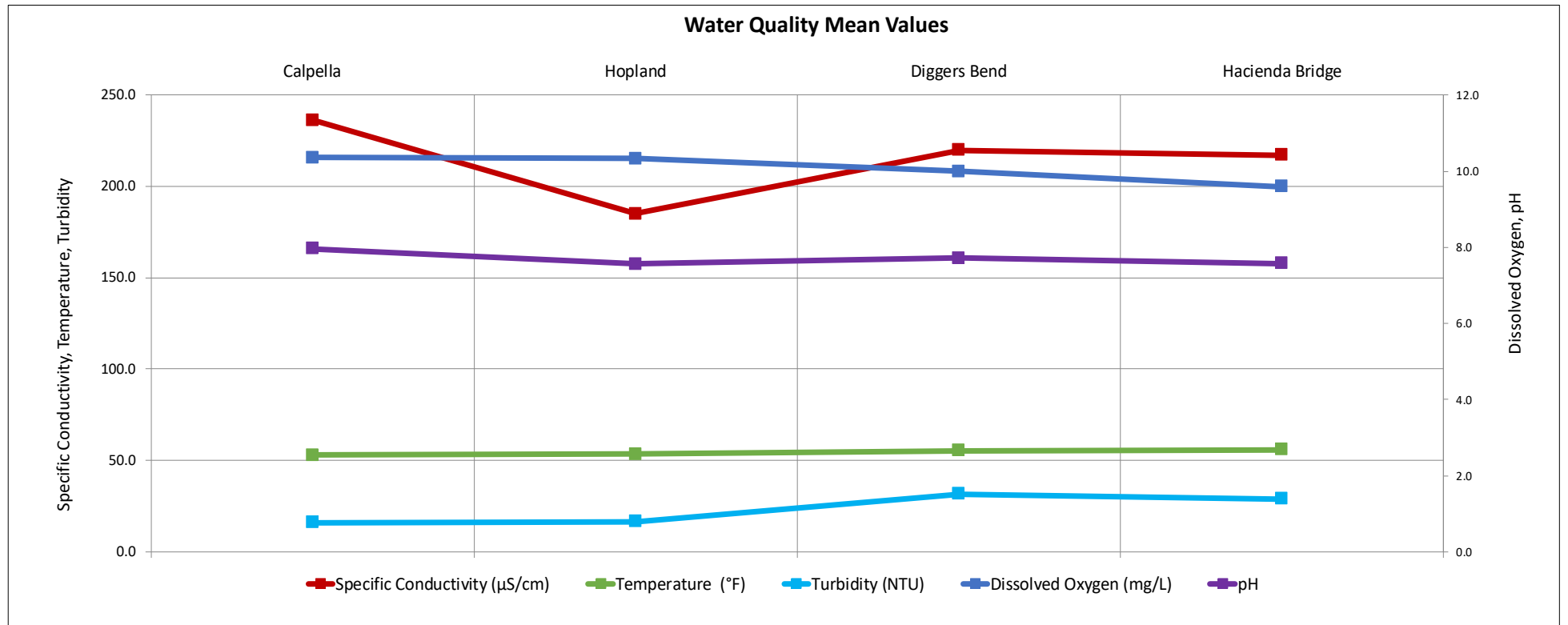


April 4, 2024
48,102 Acre-feet
(Target C 72,065)

Russian River Flows (March 29, 2024 - April 4, 2024)

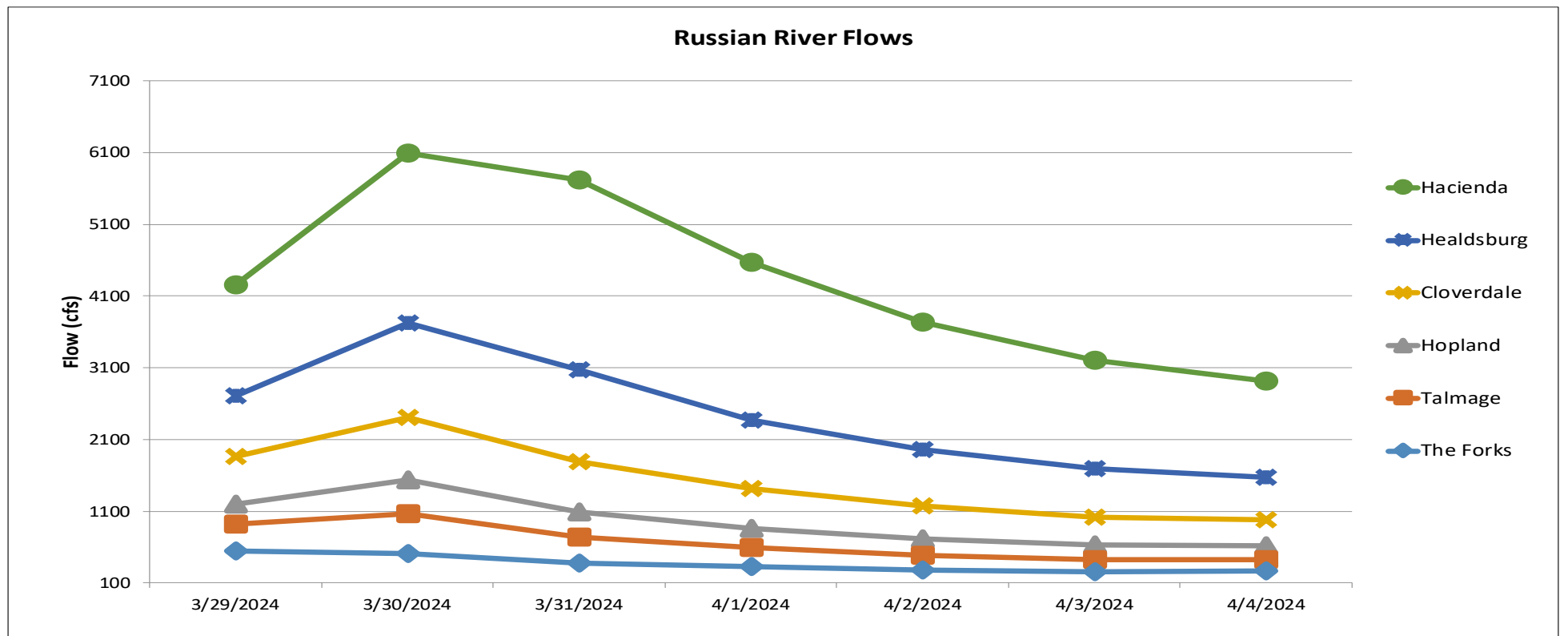
Parameter		Calpella	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	USGS 11462500	USGS 11463000	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	48.7	49.5		50.4	50.9		52.2	
	Max	59.4	58.3		59.5	59.4		59.2	
	Mean	53.0	53.4		54.9	55.2		55.8	
Specific Conductivity (µS/cm)	Min	208.0	146.0			186.0		187.0	
	Max	251.0	213.0			258.0		245.0	
	Mean	236.4	185.1			220.0		217.3	
Dissolved Oxygen (mg/L)	Min	9.7	9.6			9.4		9.3	
	Max	10.8	11.1			10.7		10.0	
	Mean	10.4	10.3			10.0		9.6	
Dissolved Oxygen (% Saturation)	Min	92.9	92.1			90.9		88.2	
	Max	100.7	98.8			98.1		94.2	
	Mean	95.3	95.6			94.6		91.5	
pH	Min	7.8	7.5			7.7		7.5	
	Max	8.1	7.7			7.8		7.7	
	Mean	8.0	7.6			7.7		7.6	
Turbidity (NTU)	Min	7.6	7.0			11.3		11.9	
	Max	77.7	54.6			94.5		76.7	
	Mean	16.0	16.4			31.6		28.8	

*Station operated seasonally



Gage	24-hr Average Flow (cfs)						
	Mar 29, 2024	Mar 30, 2024	Mar 31, 2024	Apr 1, 2024	Apr 2, 2024	Apr 3, 2024	Apr 4, 2024
The Forks*	549	510	382	324	285	258	267
Talmage USGS 11462080	915	1071	744	588	486	421	427
Hopland USGS 11462500	1194	1531	1092	861	716	627	616
Cloverdale USGS 11463000	1867	2408	1785	1412	1173	1015	975
Healdsburg USGS 11464000	2707	3730	3069	2376	1956	1693	1575
Hacienda USGS 11467000	4257	6098	5717	4575	3736	3202	2913

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

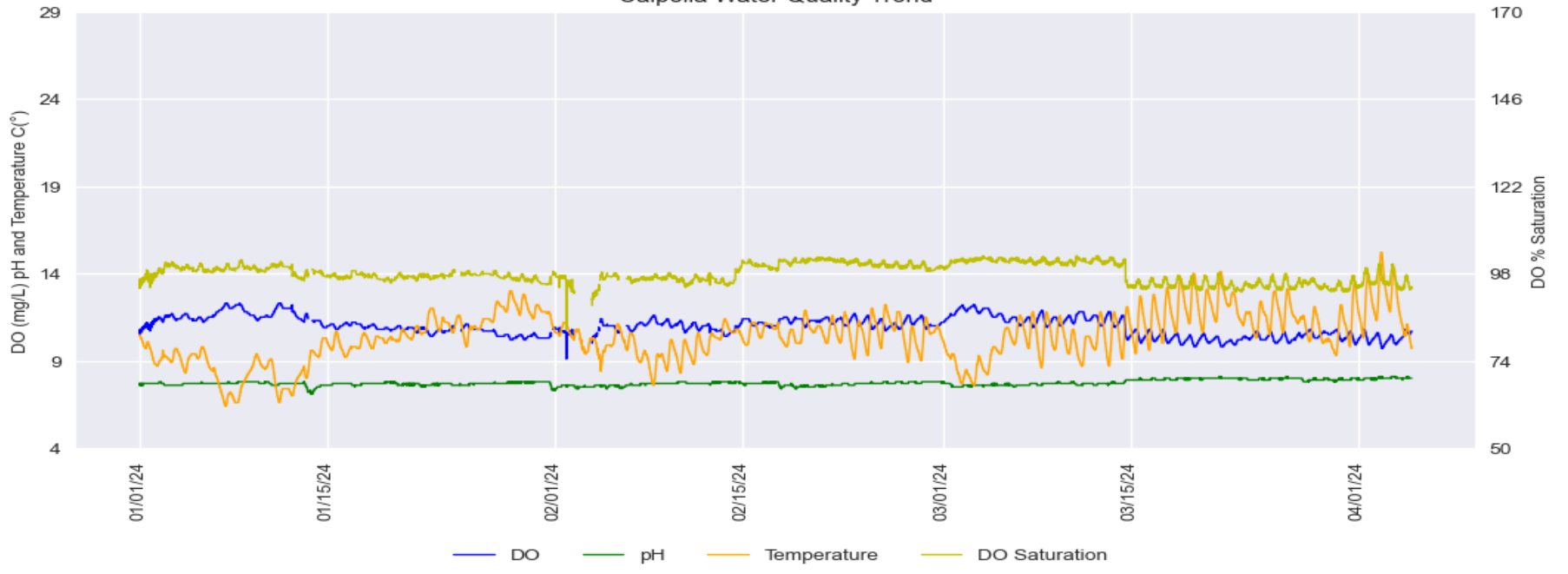


Russian River Water Quality January 1, 2024 – April 4, 2024

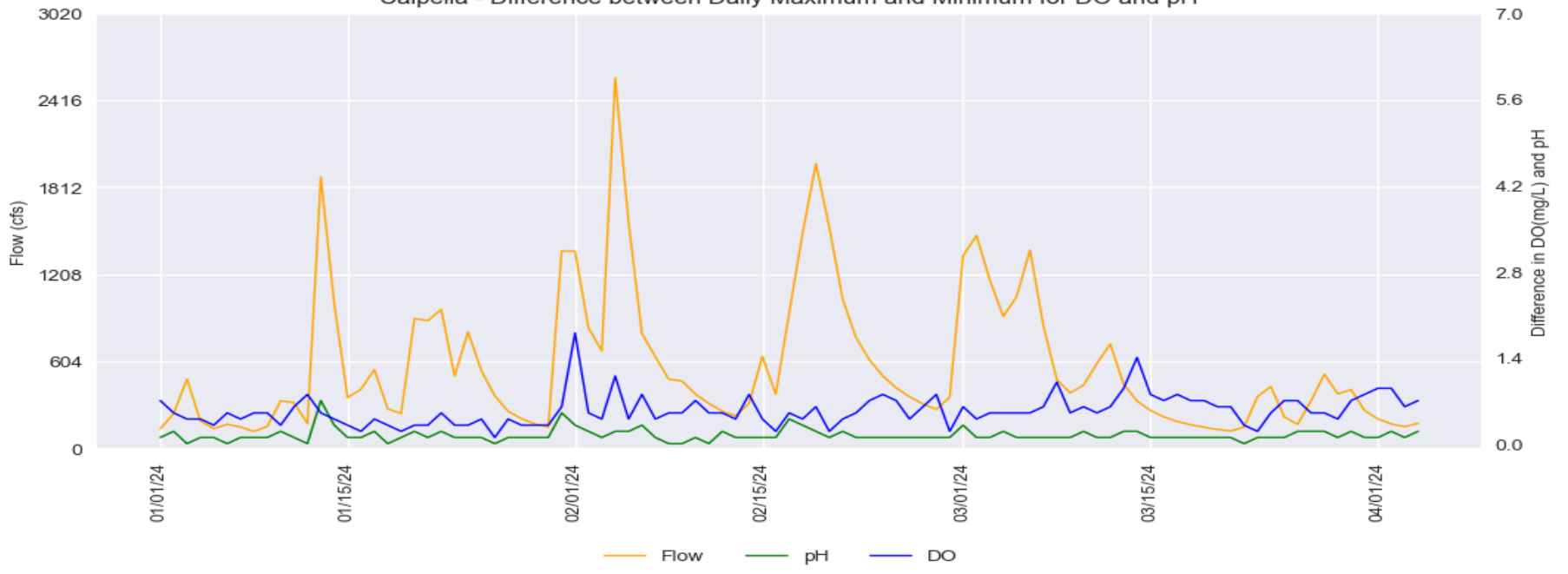
Provisional Data Subject to Revision

Calpella

Calpella Water Quality Trend

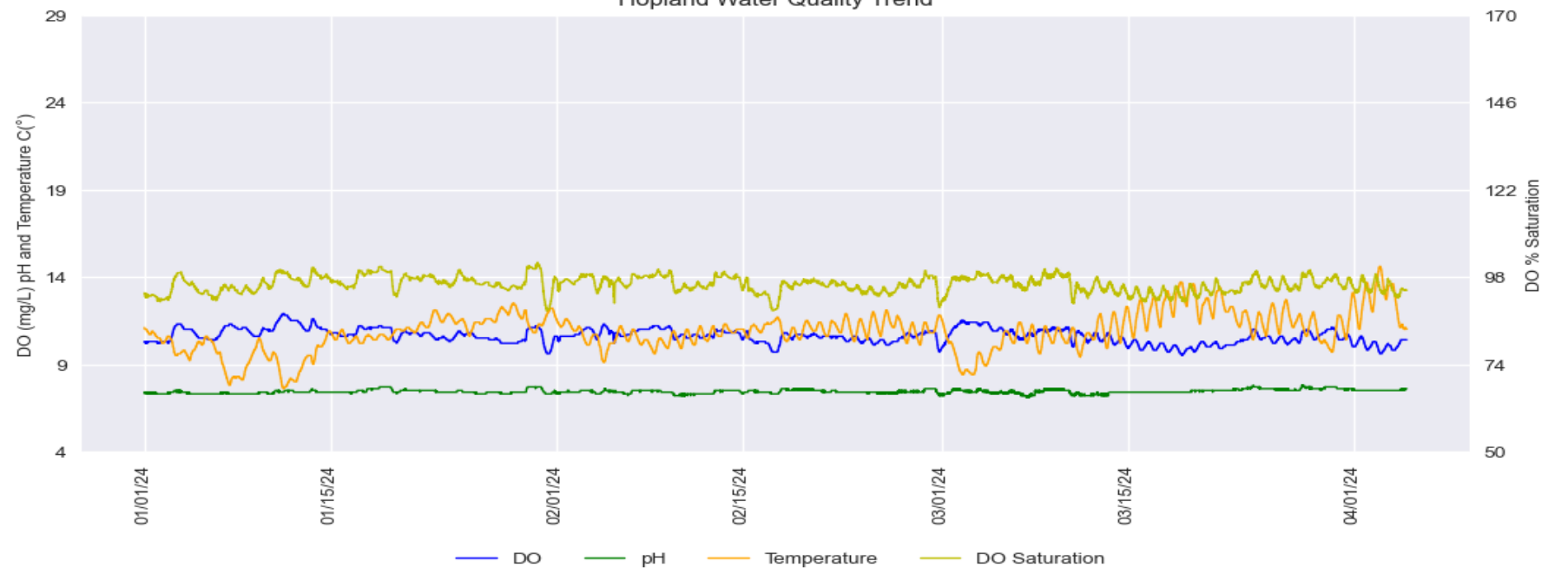


Calpella - Difference between Daily Maximum and Minimum for DO and pH

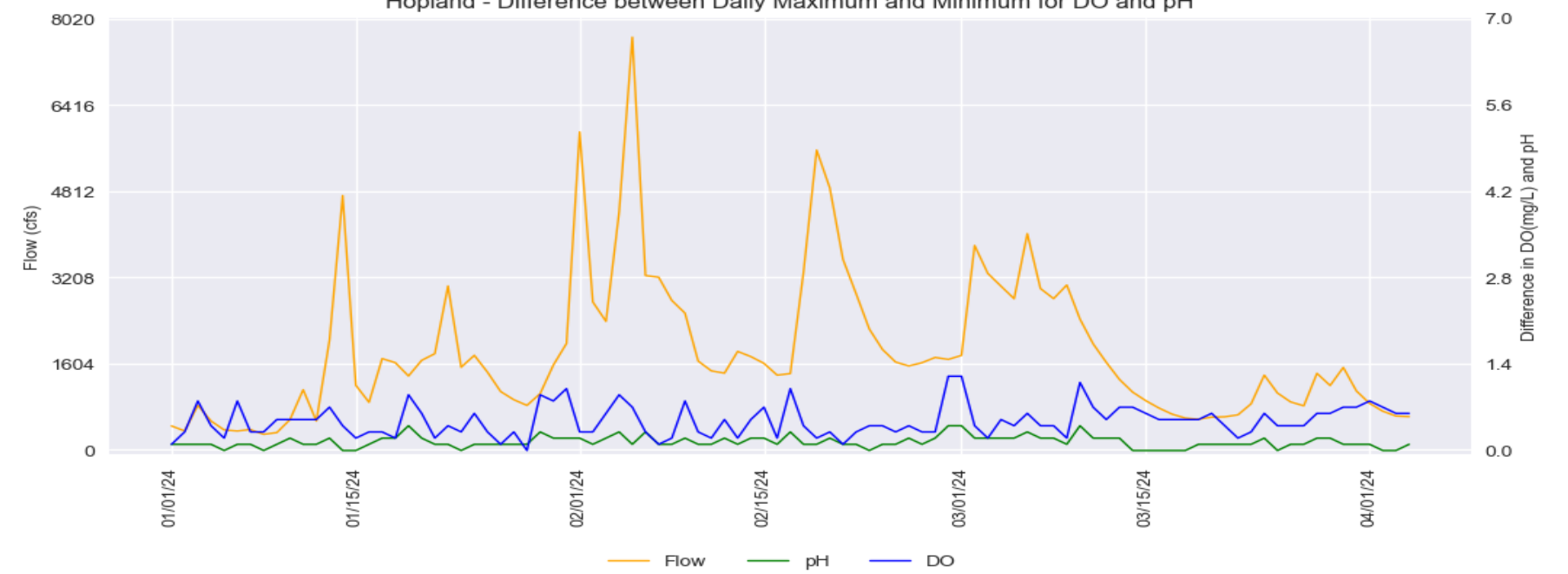


Hopland

Hopland Water Quality Trend



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

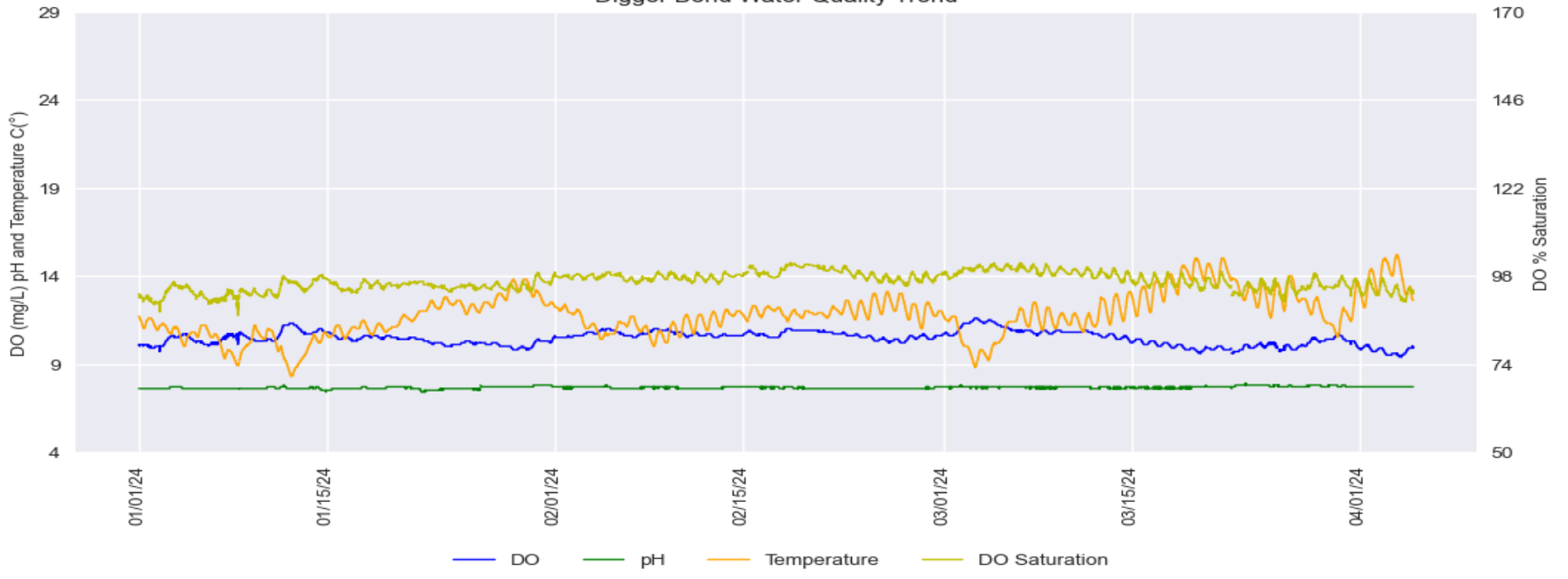


Russian River Water Quality January 1, 2024 – April 4, 2024

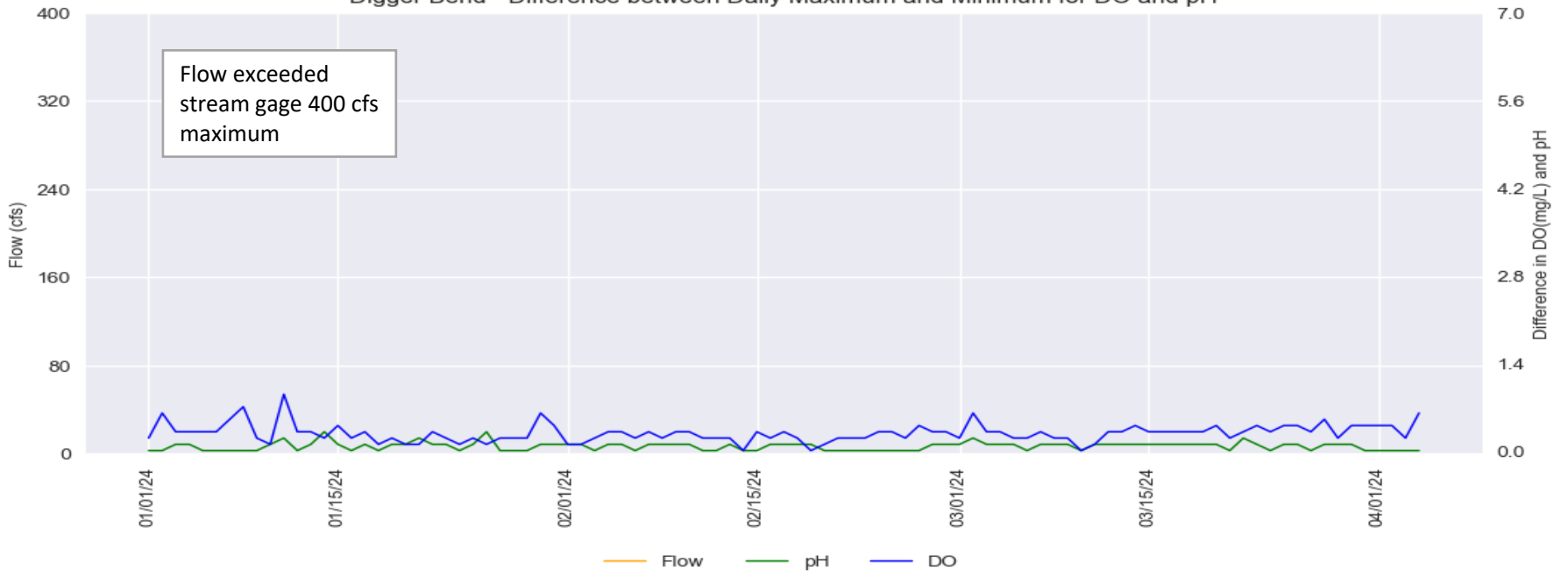
Provisional Data Subject to Revision

Digger Bend

Digger Bend Water Quality Trend

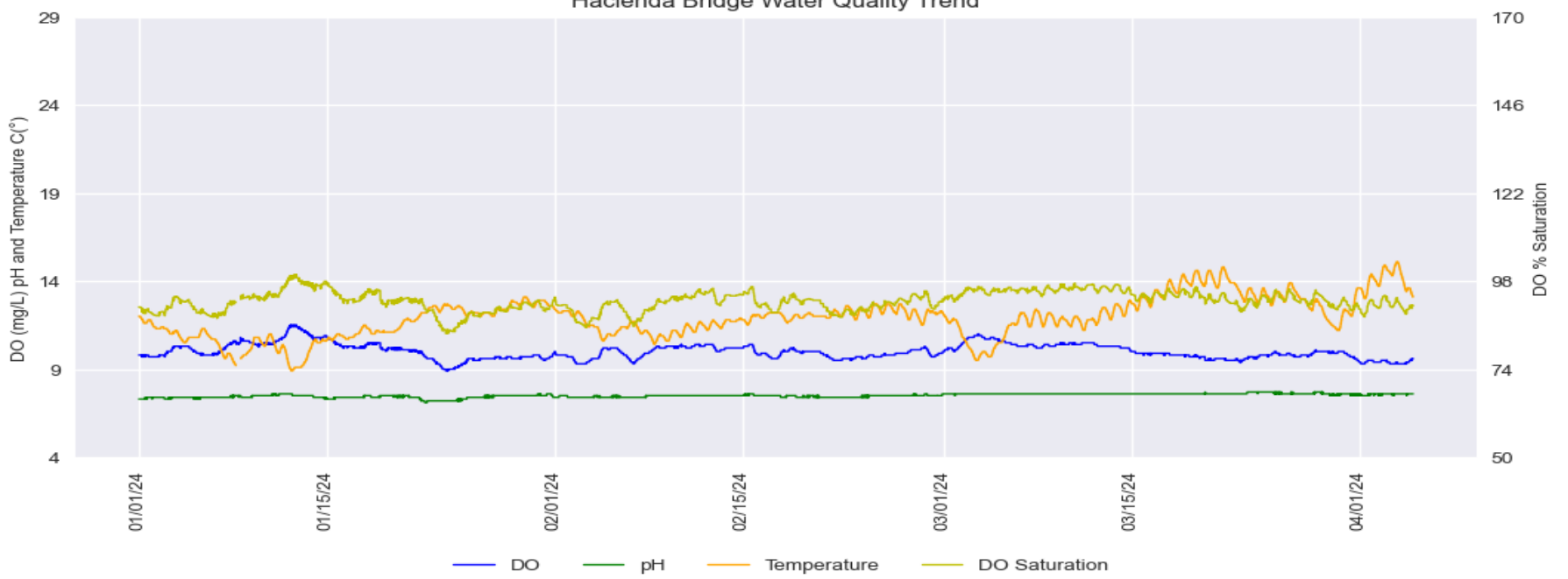


Digger Bend - Difference between Daily Maximum and Minimum for DO and pH

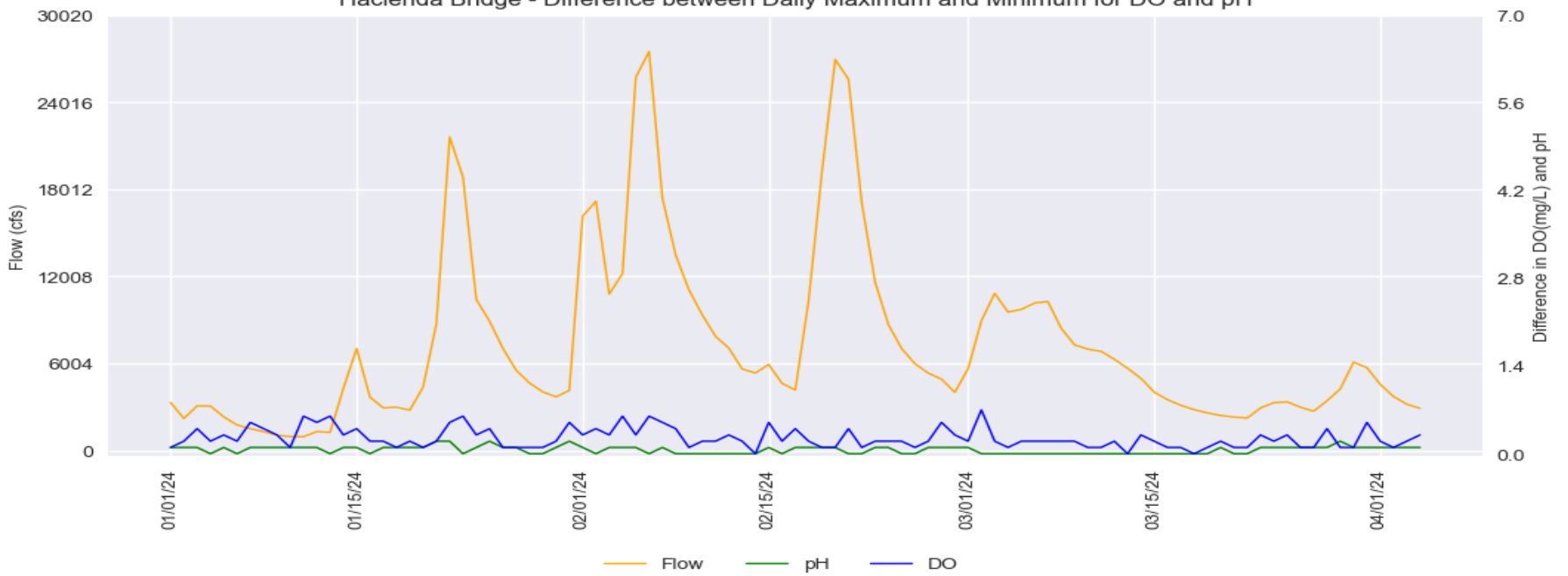


Hacienda Bridge

Hacienda Bridge Water Quality Trend



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

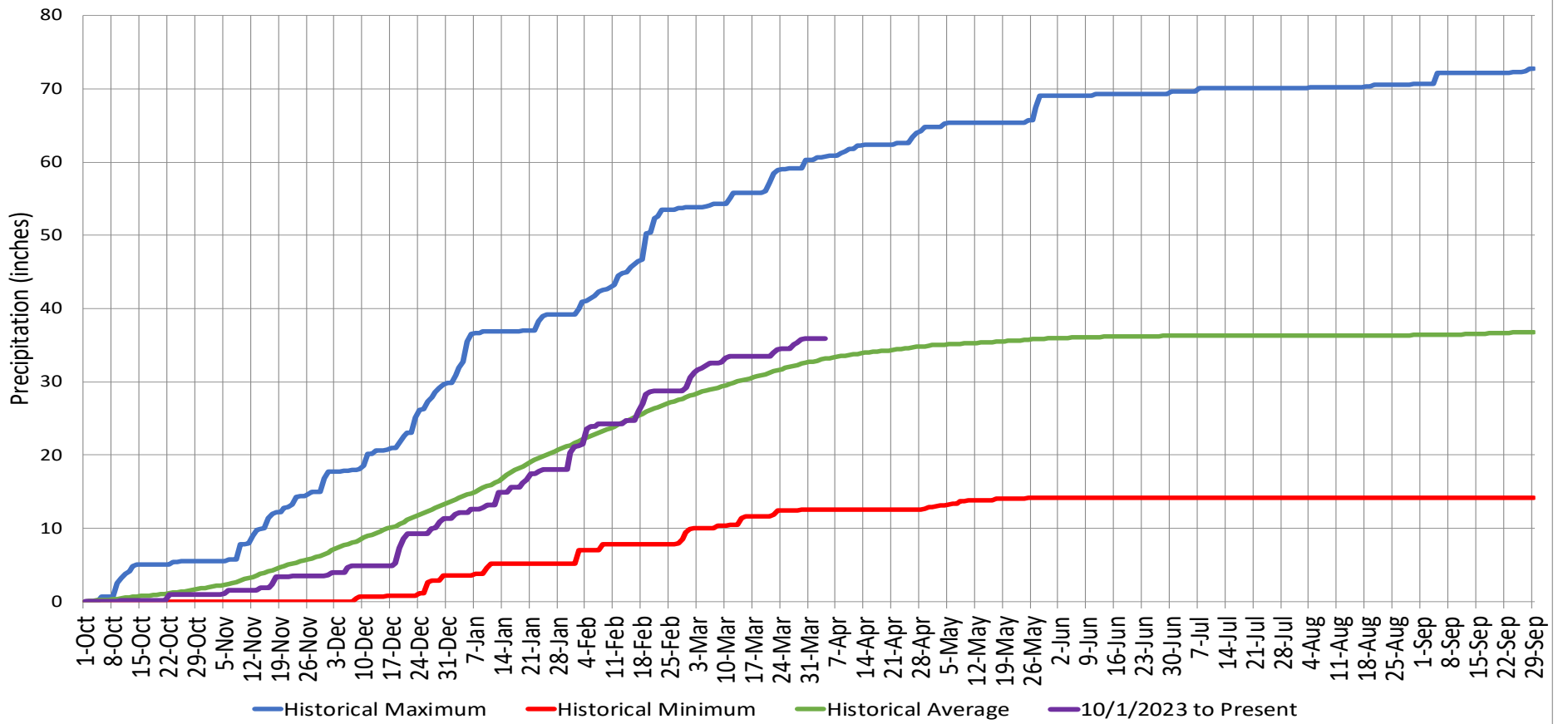


Precipitation

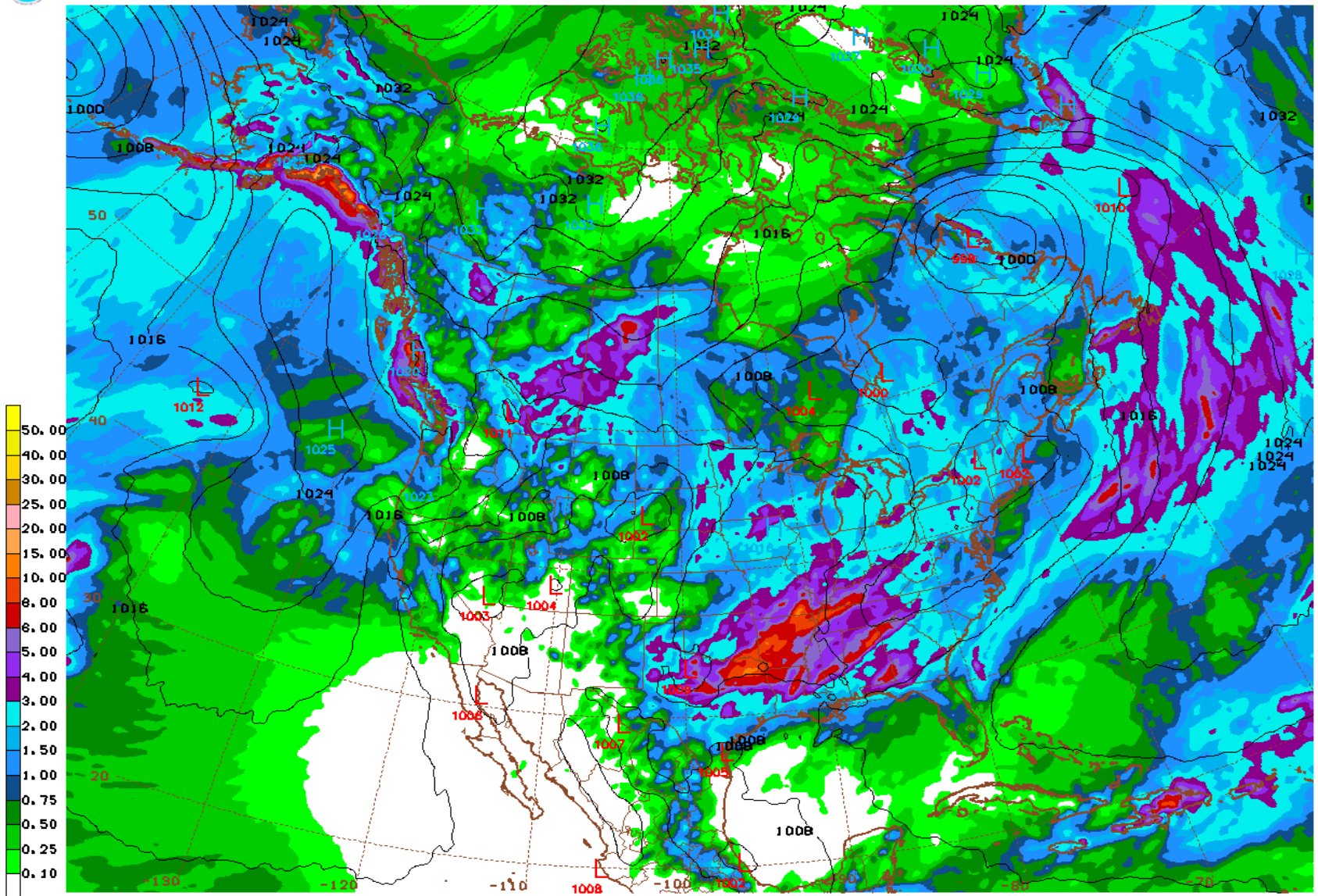
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))

Date Range	Cumulative (inches)
Oct 1, 2023 - Apr 4, 2024	35.95
Last 7 Days*	0.60

Cumulative Precipitation Comparison of Current Year versus Historic Record



6FS 04/08/24 12UTC 384HR FCST VALID WED 04/24/24 12UTC NOAA/NWS/NCEP



6FS WED 240424/1200V384 EMSL (4MB), 384HR ACCUMULATED PRECIP (IN)

Date Range
Apr 8 - Apr 24, 2024

Forecasted Cumulative (inches)
1.52