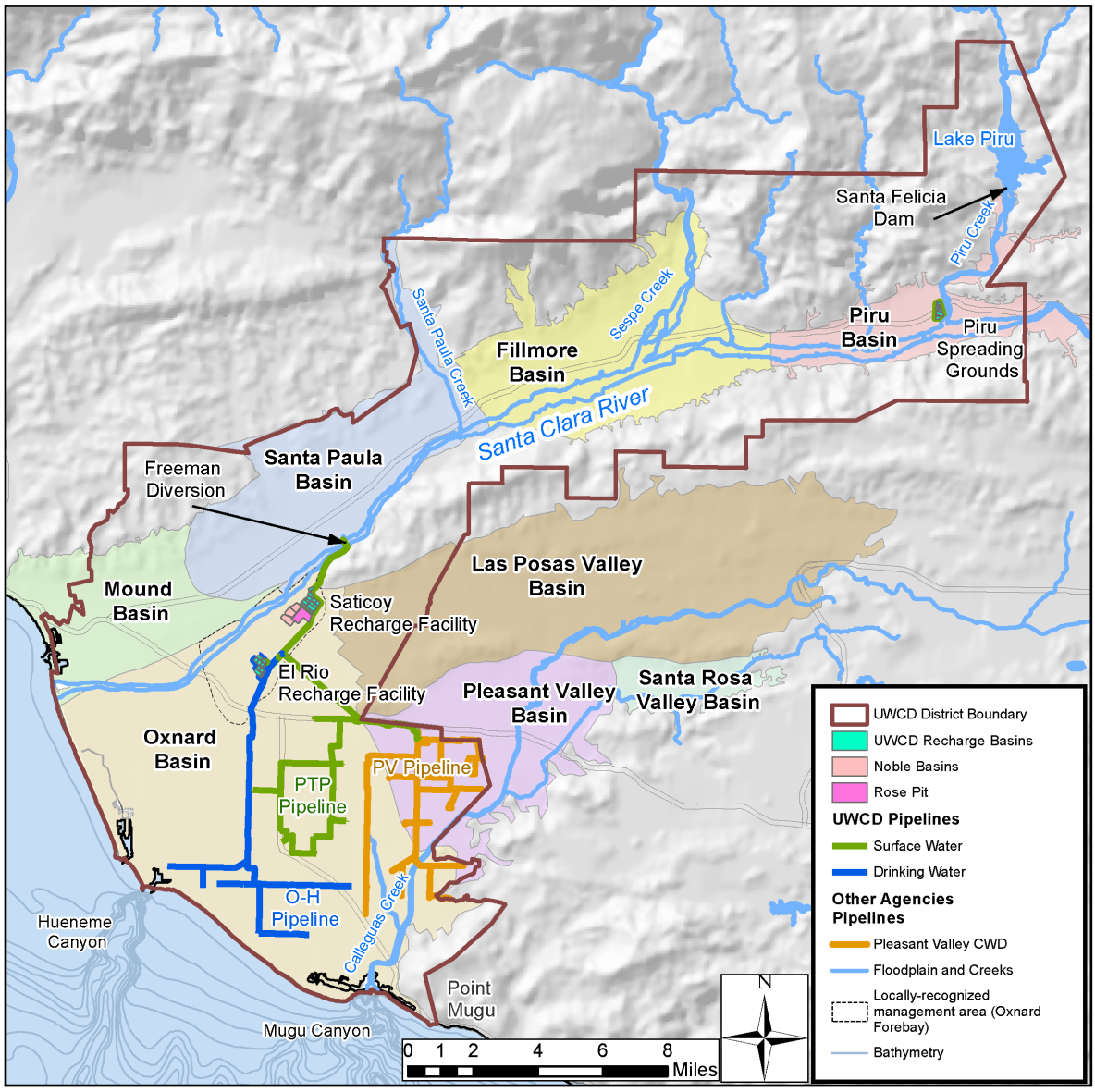
August 2023 Hydrologic Conditions Report
2022/23 Water Year

September 5, 2023



Note: This report may contain provisional data until final review at the end of the water year.

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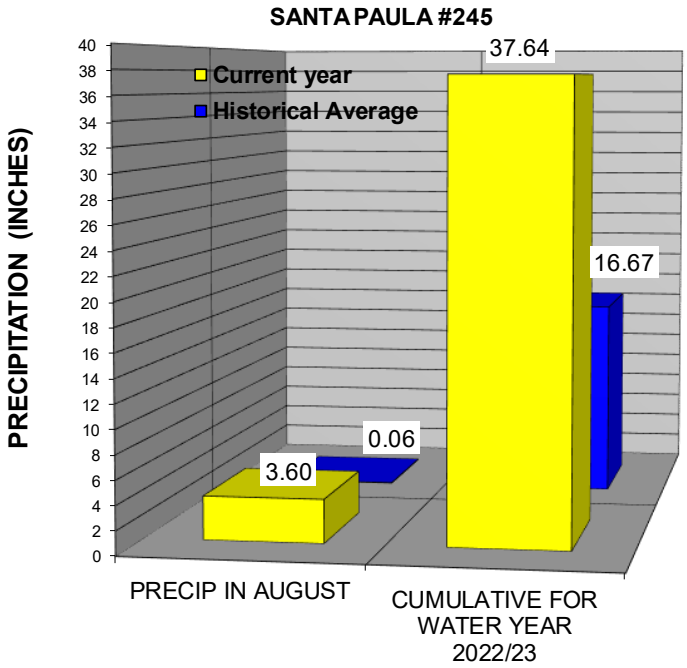
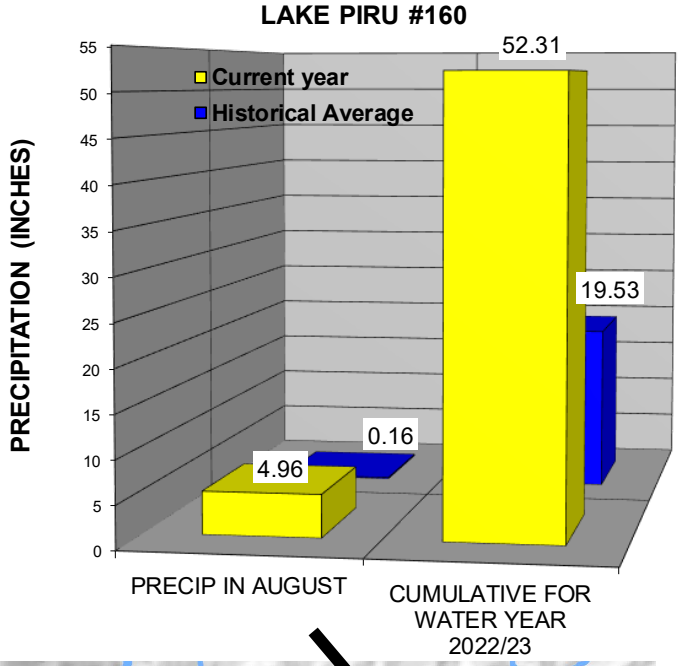
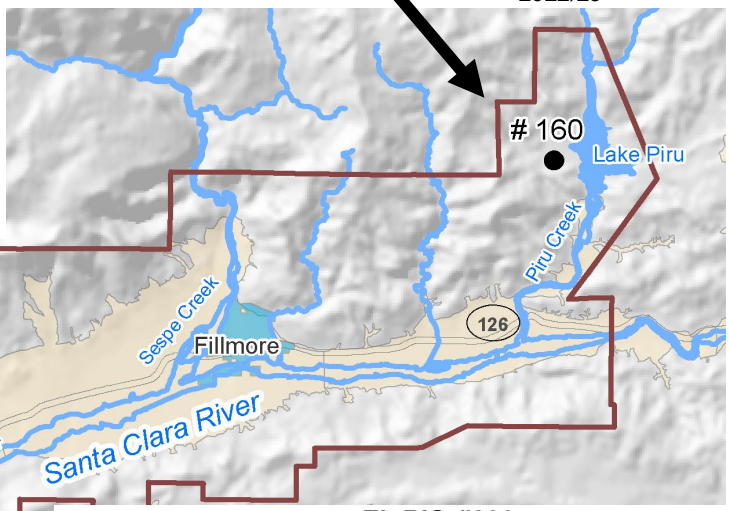
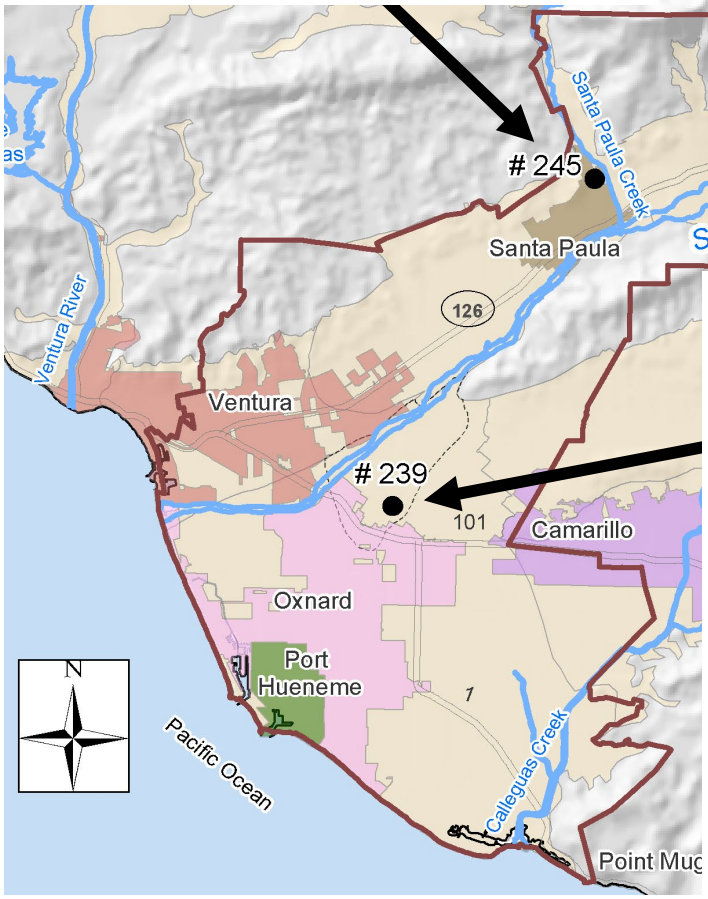
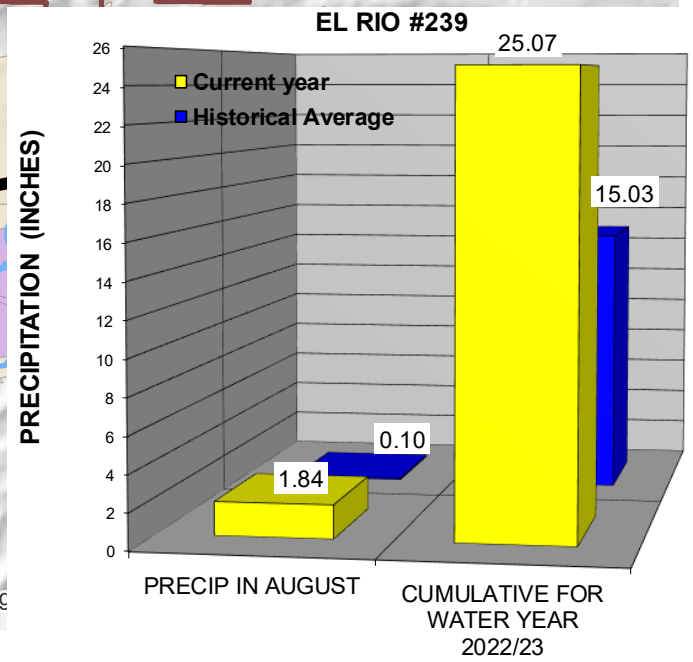
Precipitation



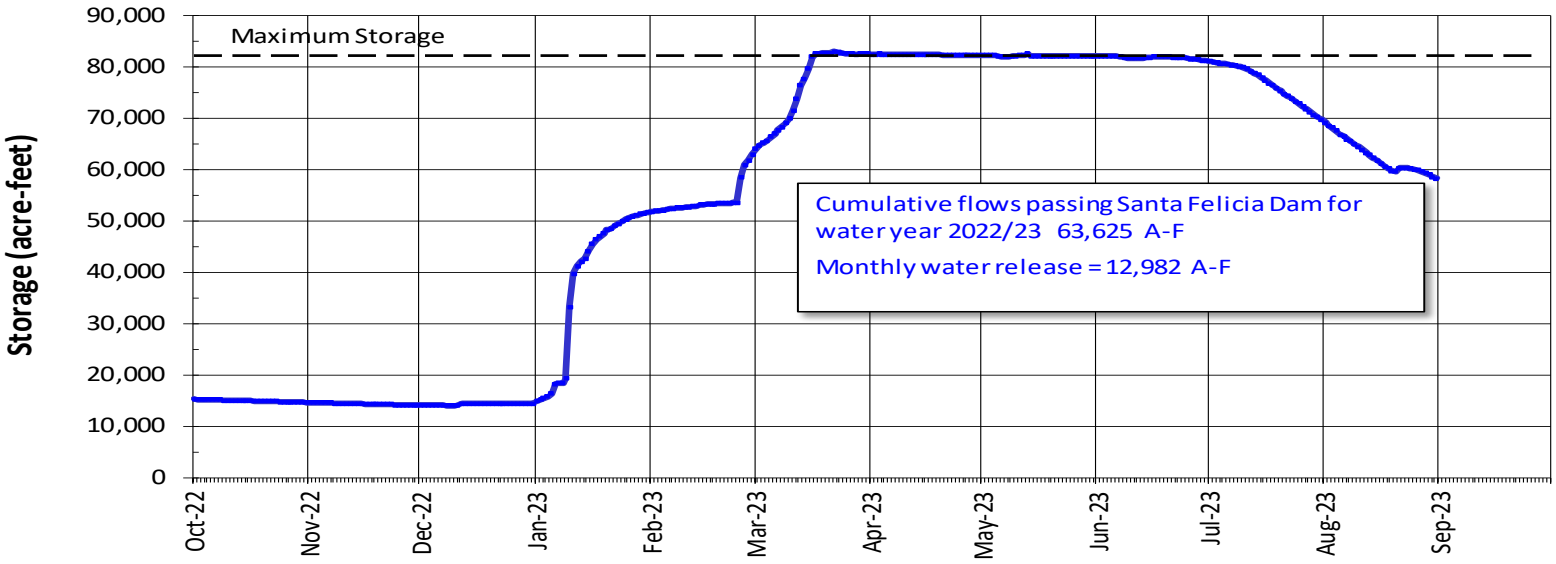






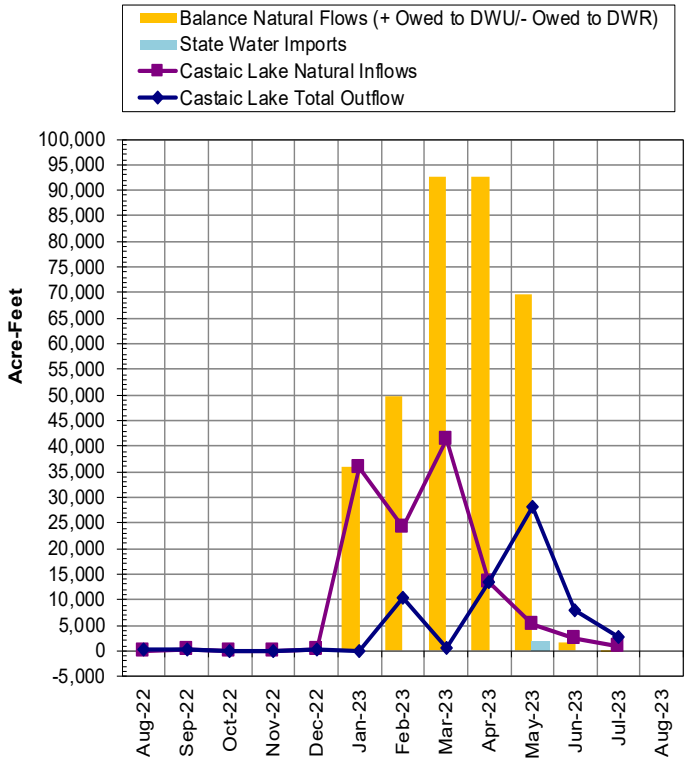


District-wide percent of normal precipitation = 225%

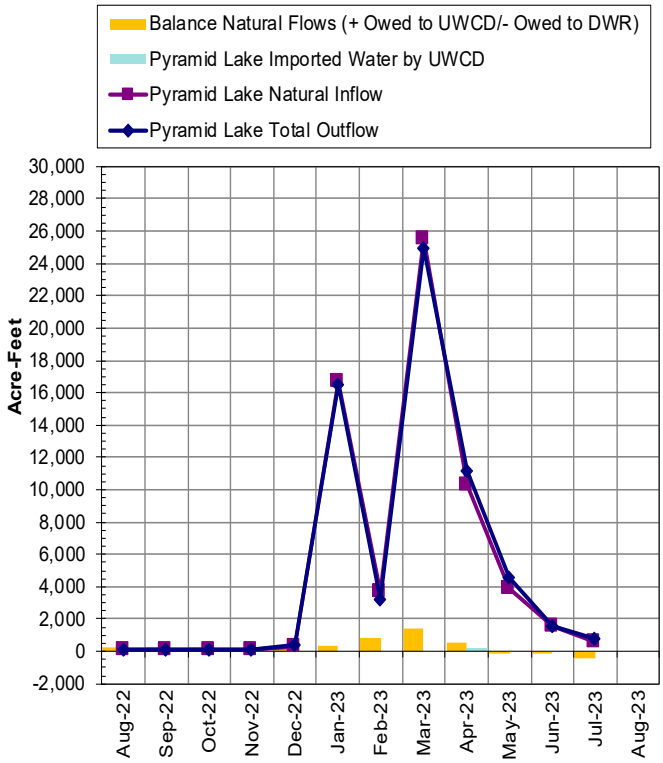


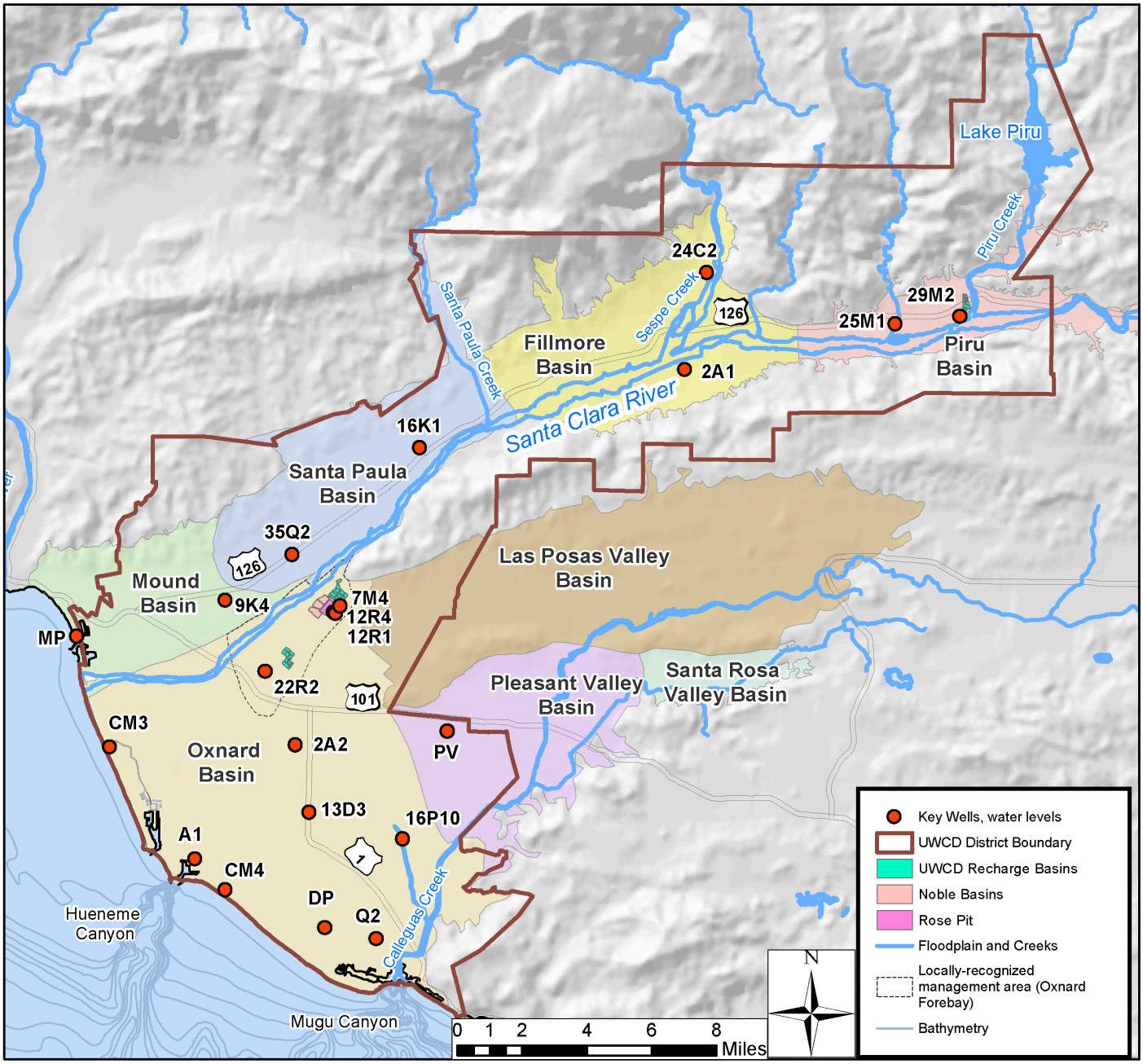
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Hydro Plant Outflow (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	
Cumulative Hydro Plant Outflow (A-F)	0	0	0	0	0	0	0	0	0	0	0	

Castaic Lake releases to downstream water users (DWU)



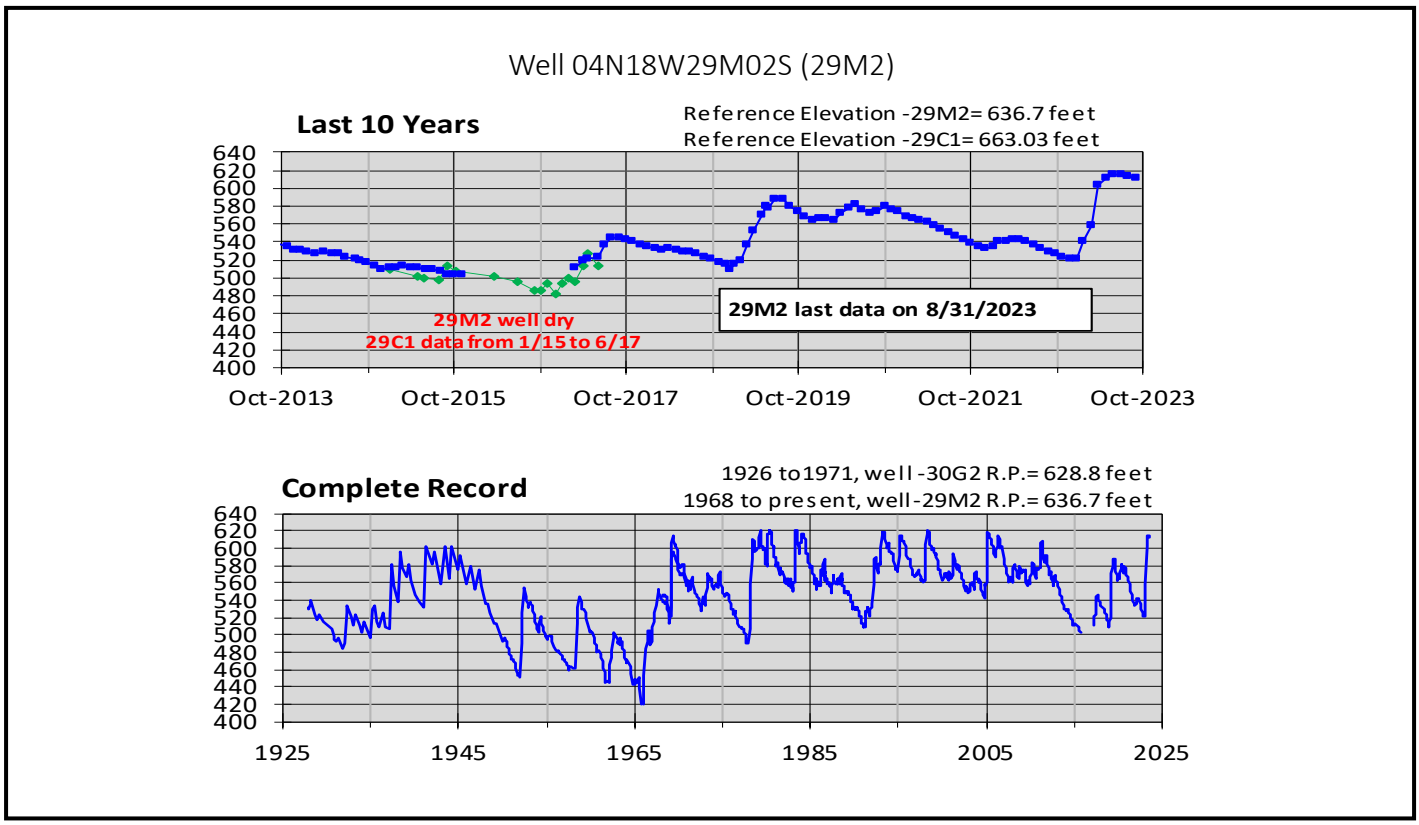
Pyramid Lake releases to UWCD

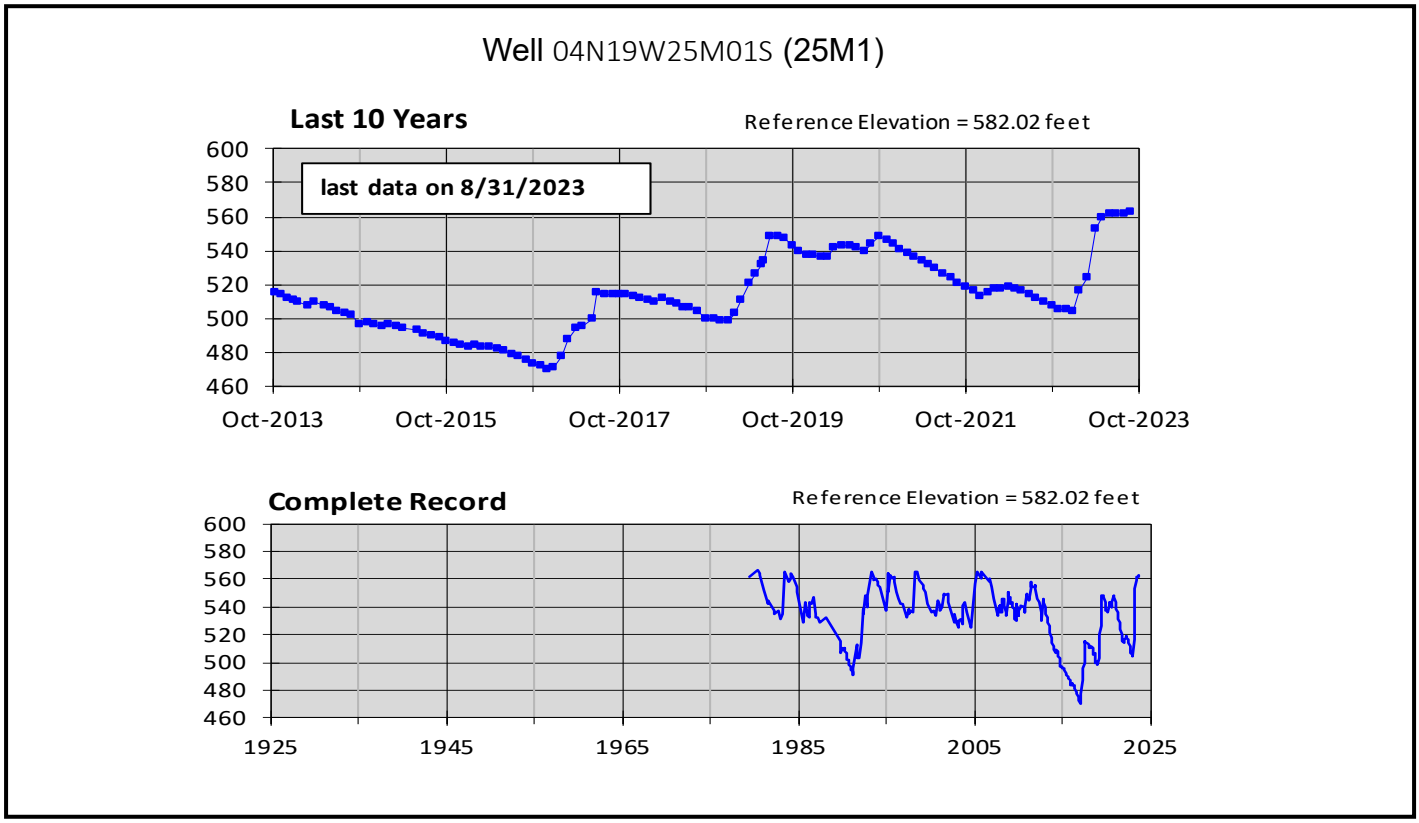




Locations of Key Wells, Monthly Groundwater Elevation Monitoring

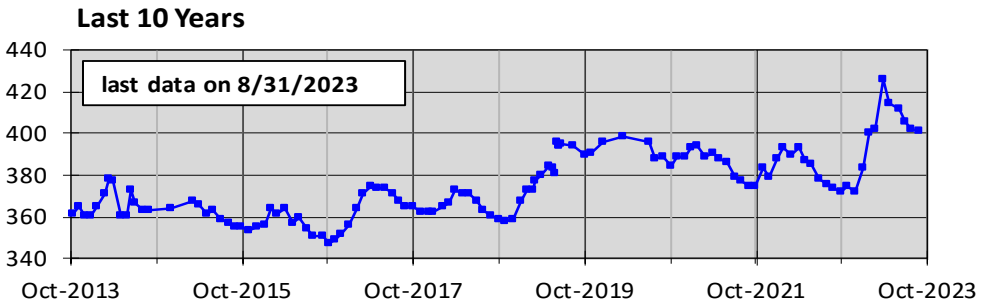
Groundwater Elevation Records – Piru Basin

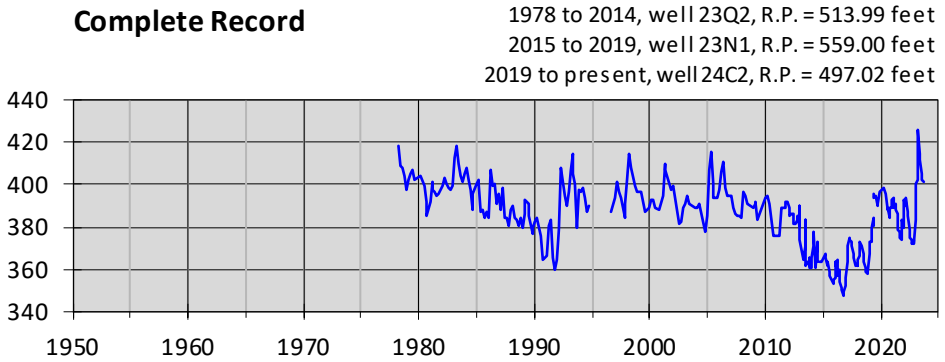




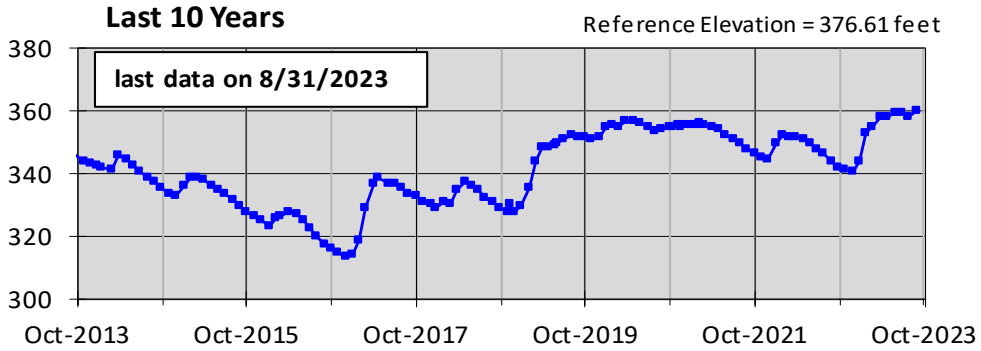
Groundwater Elevation Records – Fillmore Basin

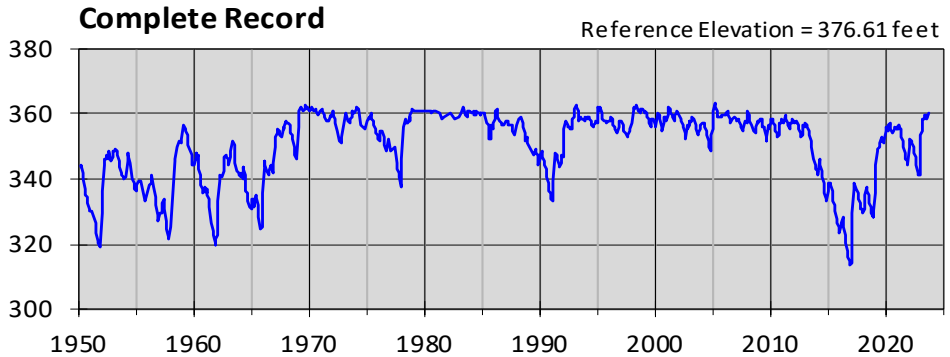
Well 04N20W24C02S (24C2)



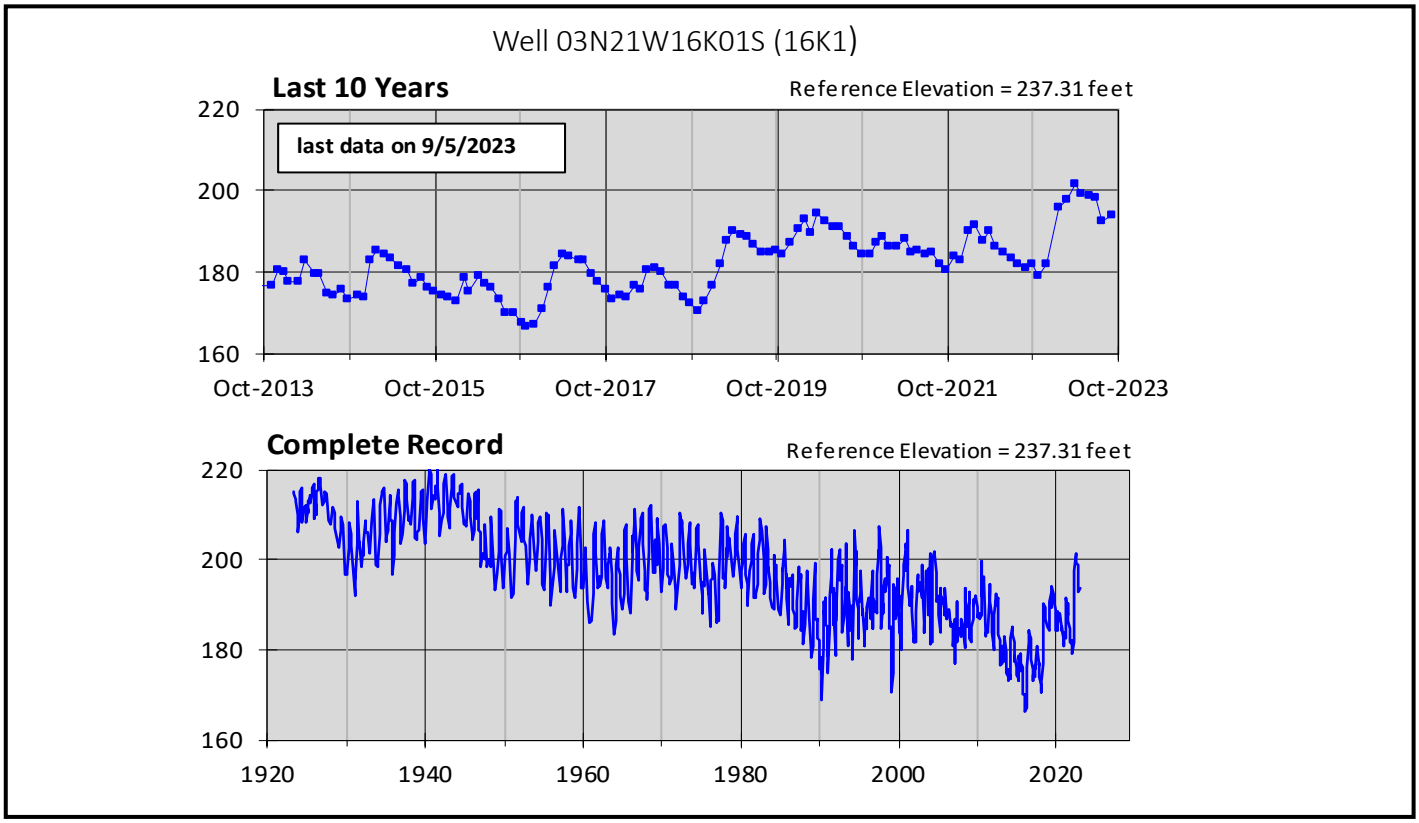


Well 03N20W02A01S (2A1)

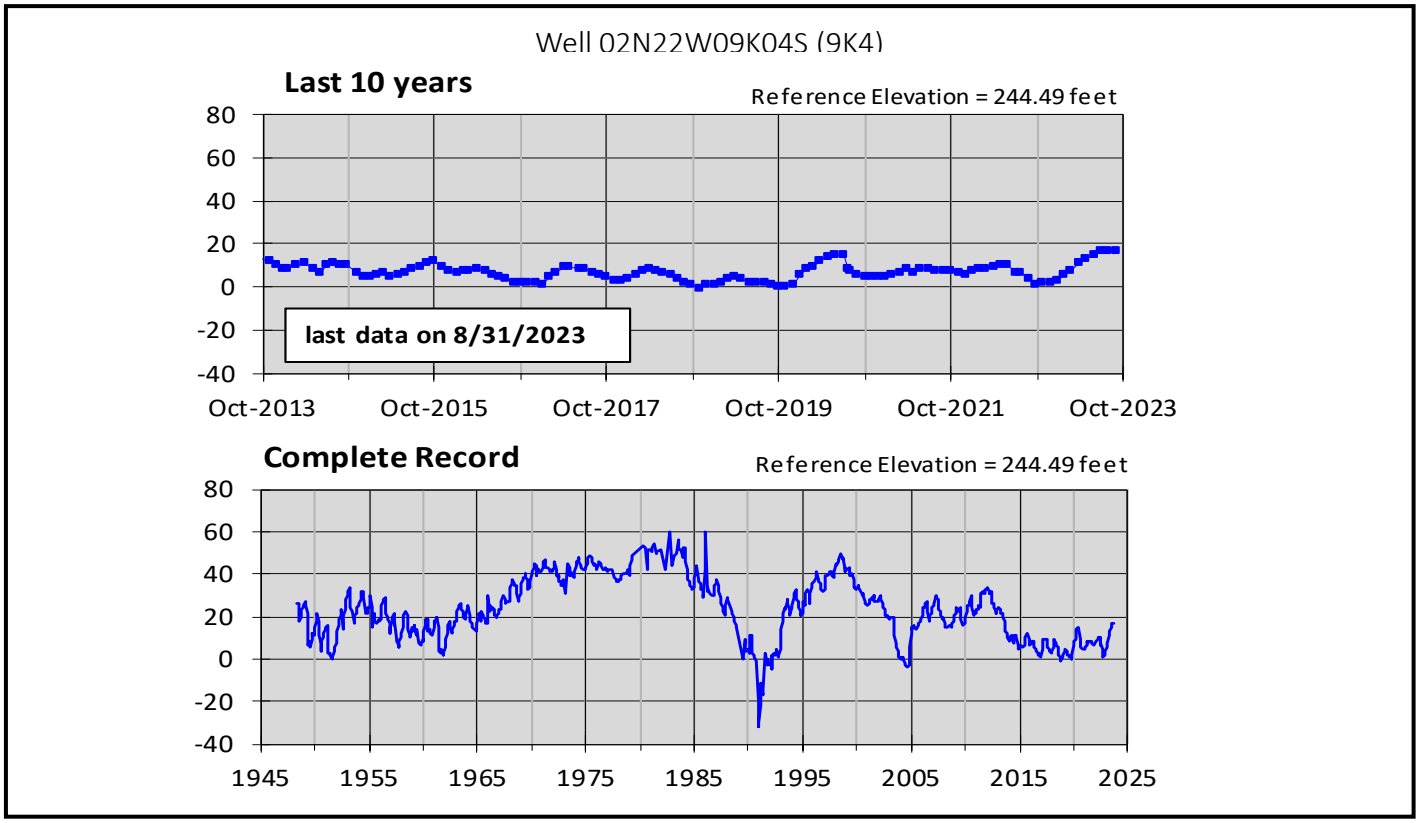




Groundwater Elevation Records – Santa Paula Basin



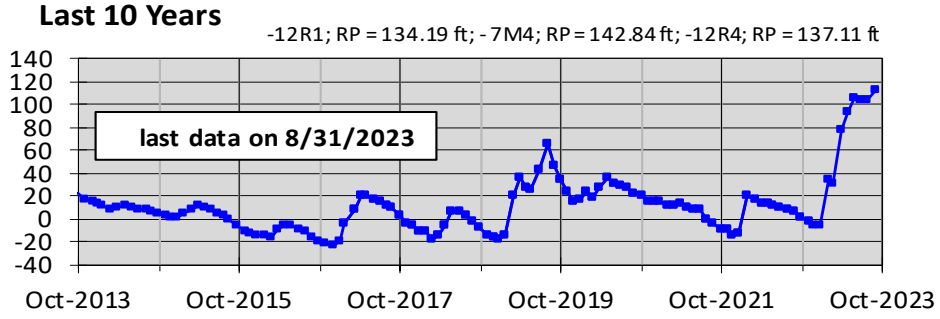
Groundwater Elevation Records – Mound Basin



Groundwater Elevation Records – Oxnard Basin, Forebay

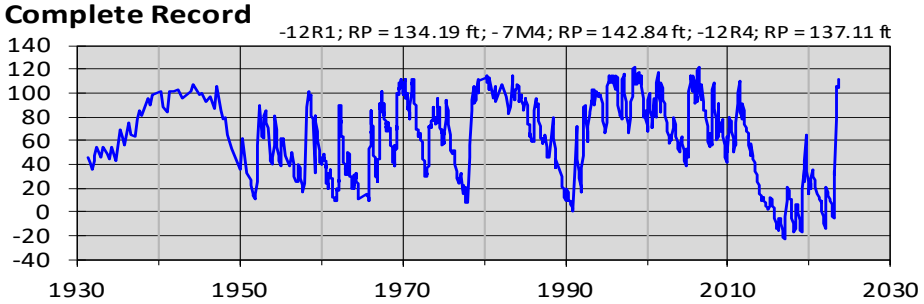
Wells 02N22W12R01S (12R1), 02N22W12R04S (12R4), and 02N21W07M04S (7M4)

Last 10 Years



Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

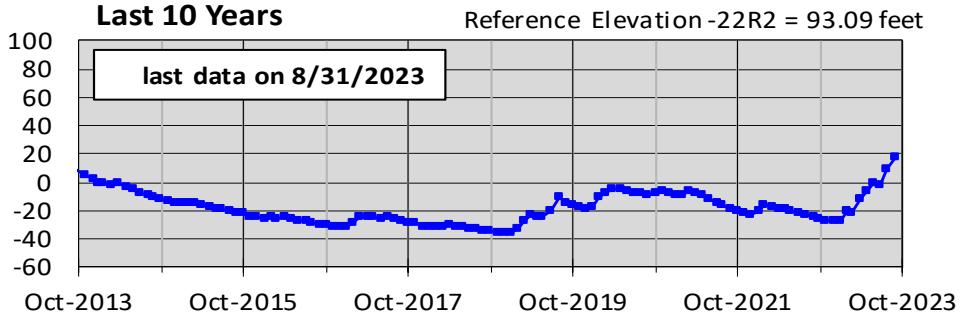
Complete Record



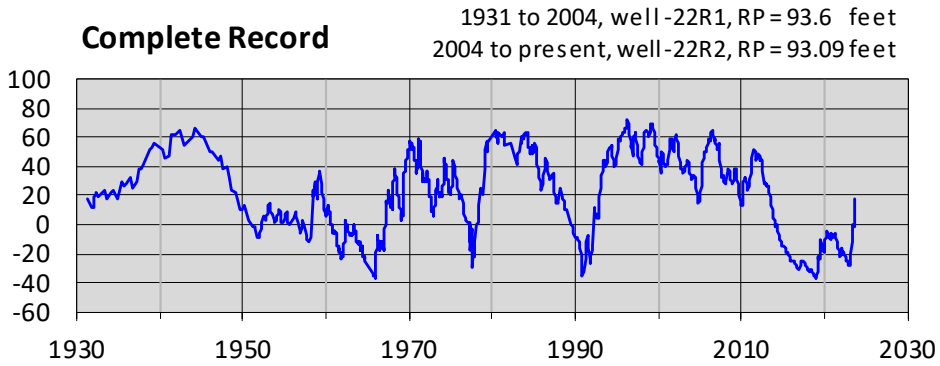
Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Well 02N22W22R02S (22R2)

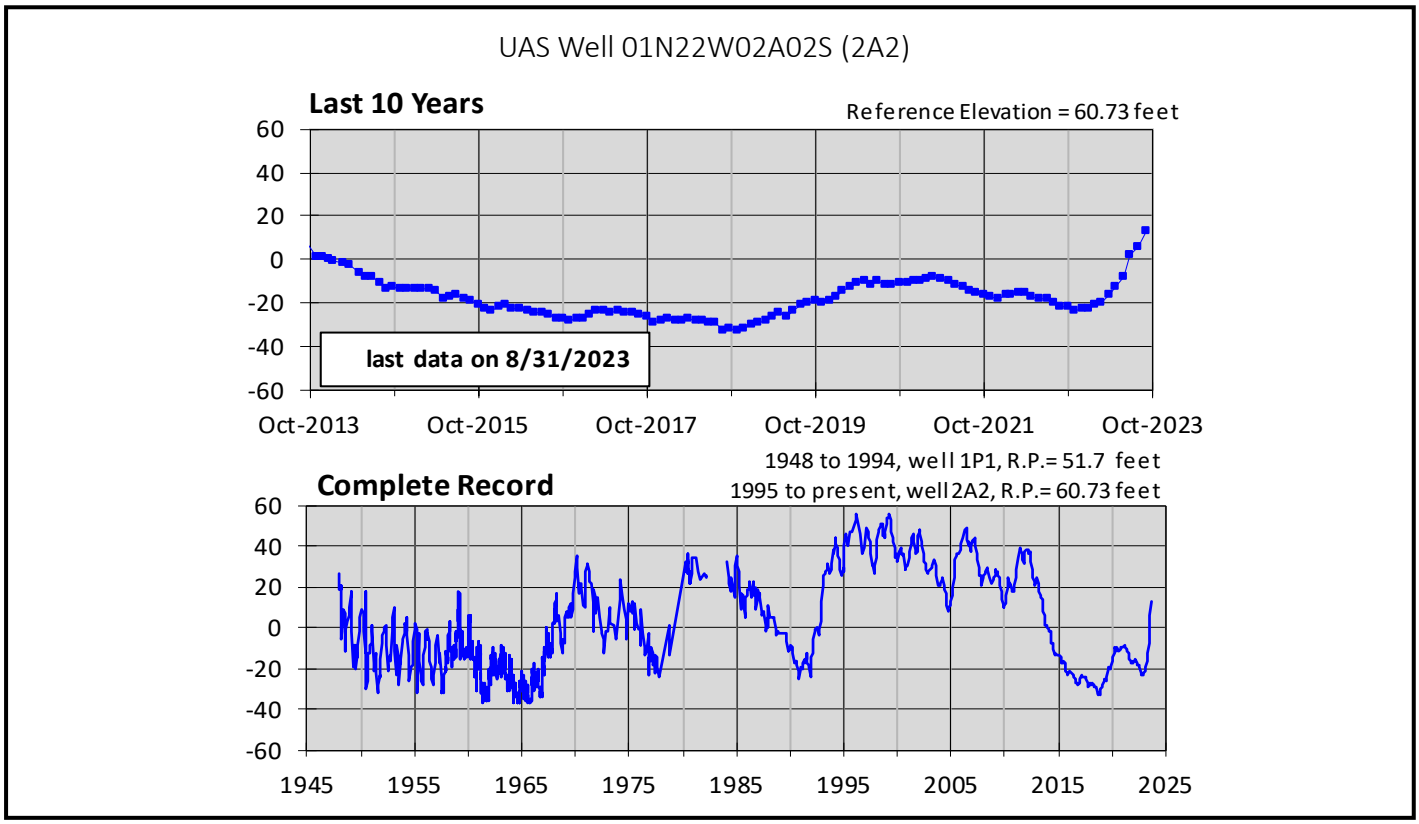
Last 10 Years

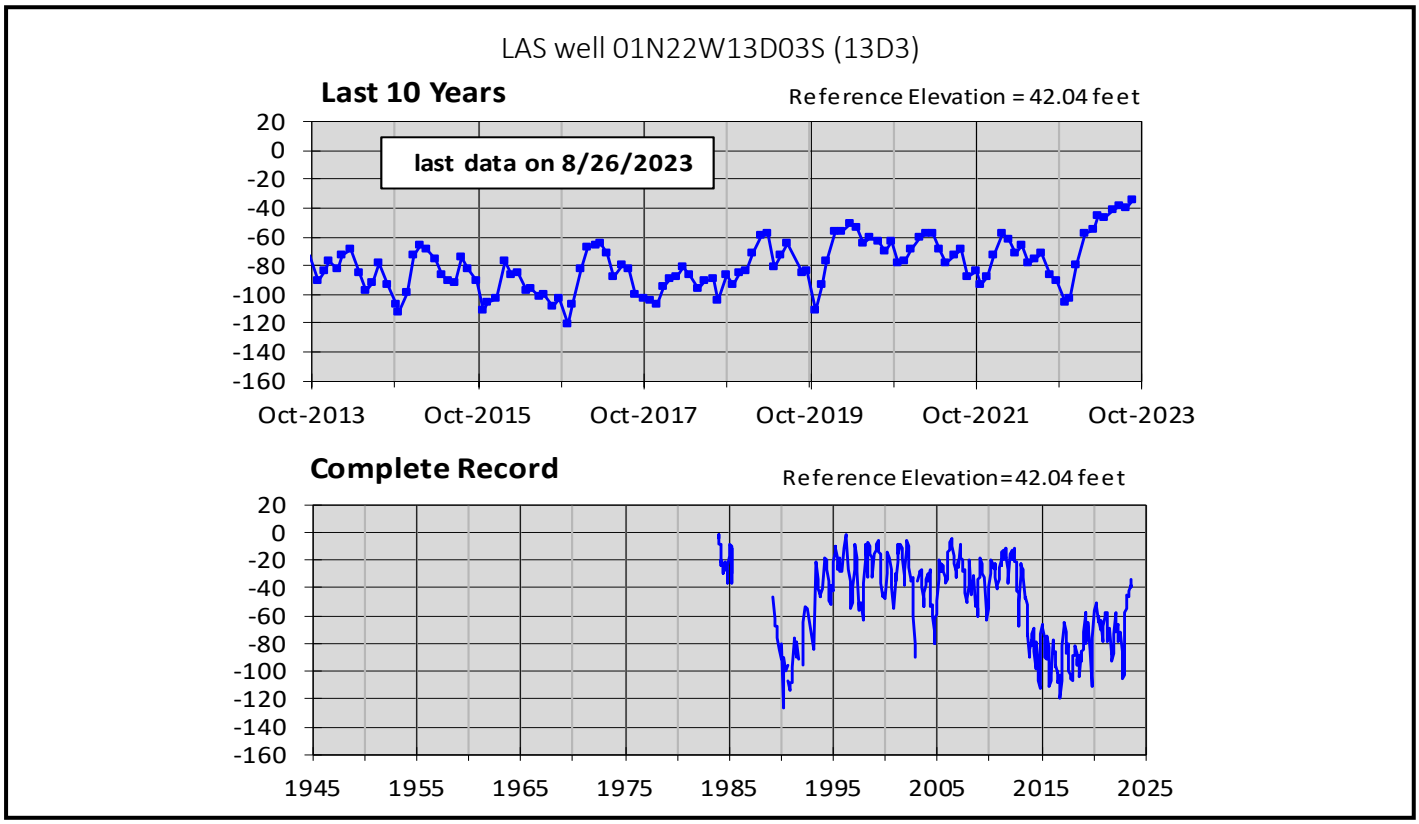


Complete Record

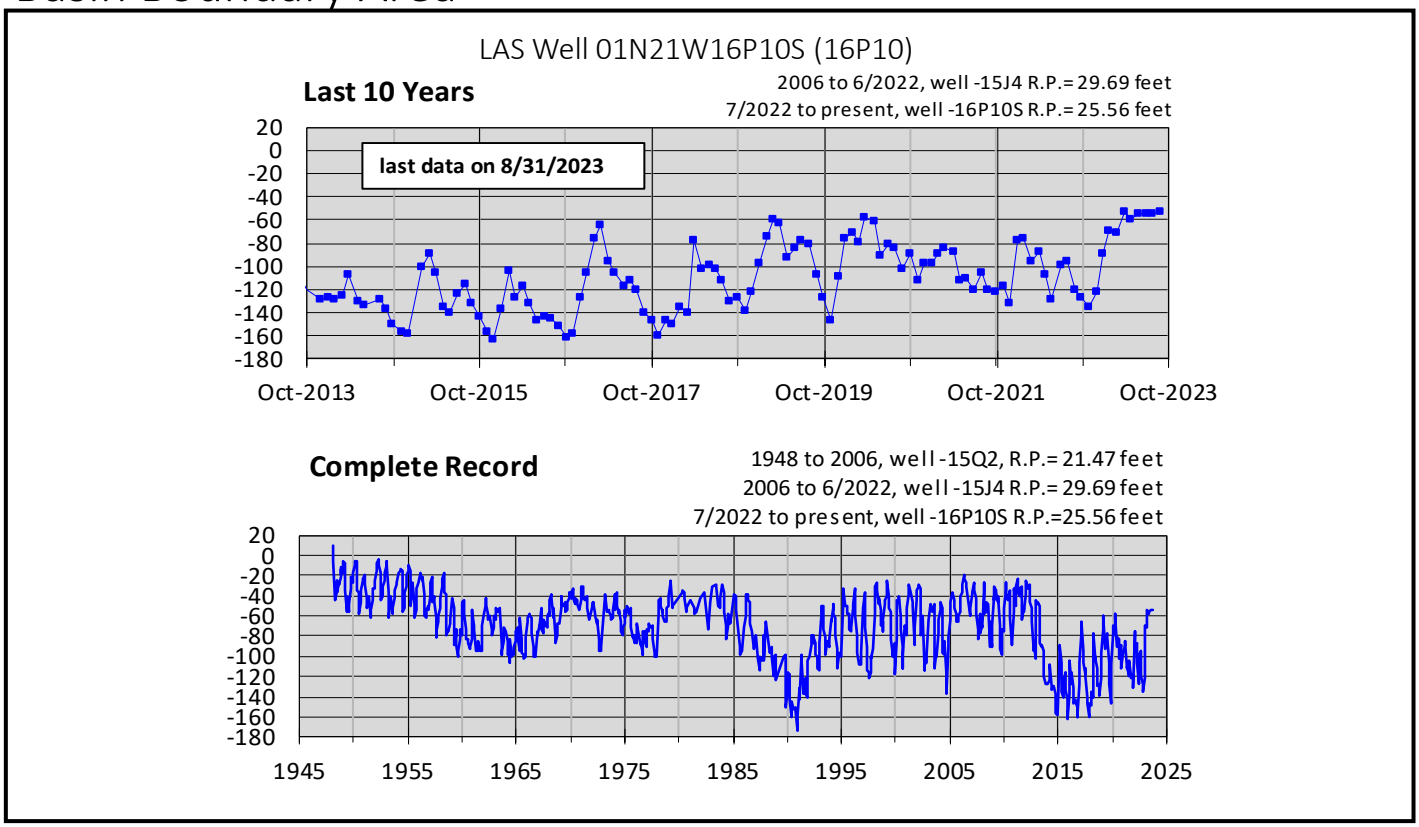


Groundwater Elevation Records – Oxnard Basin

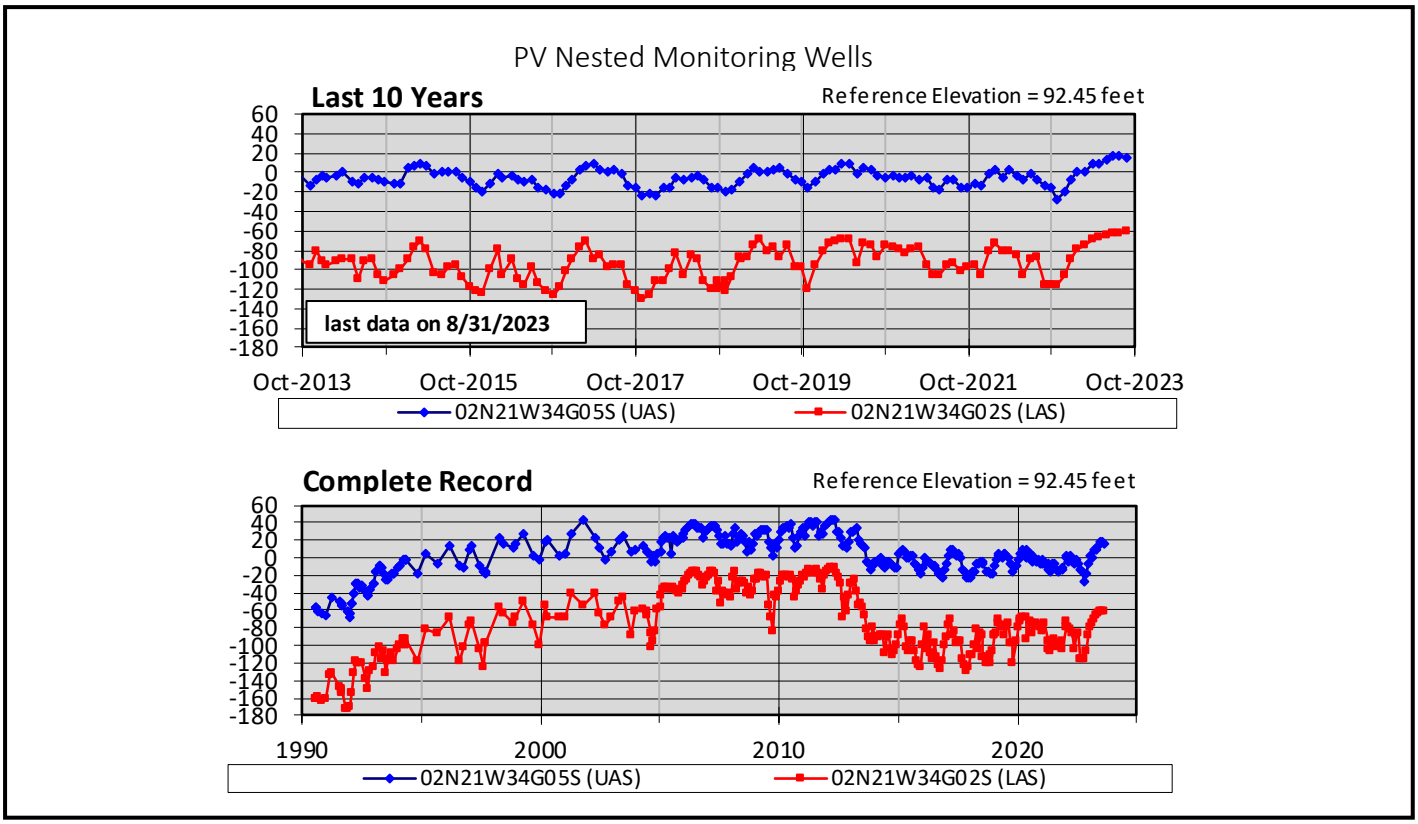




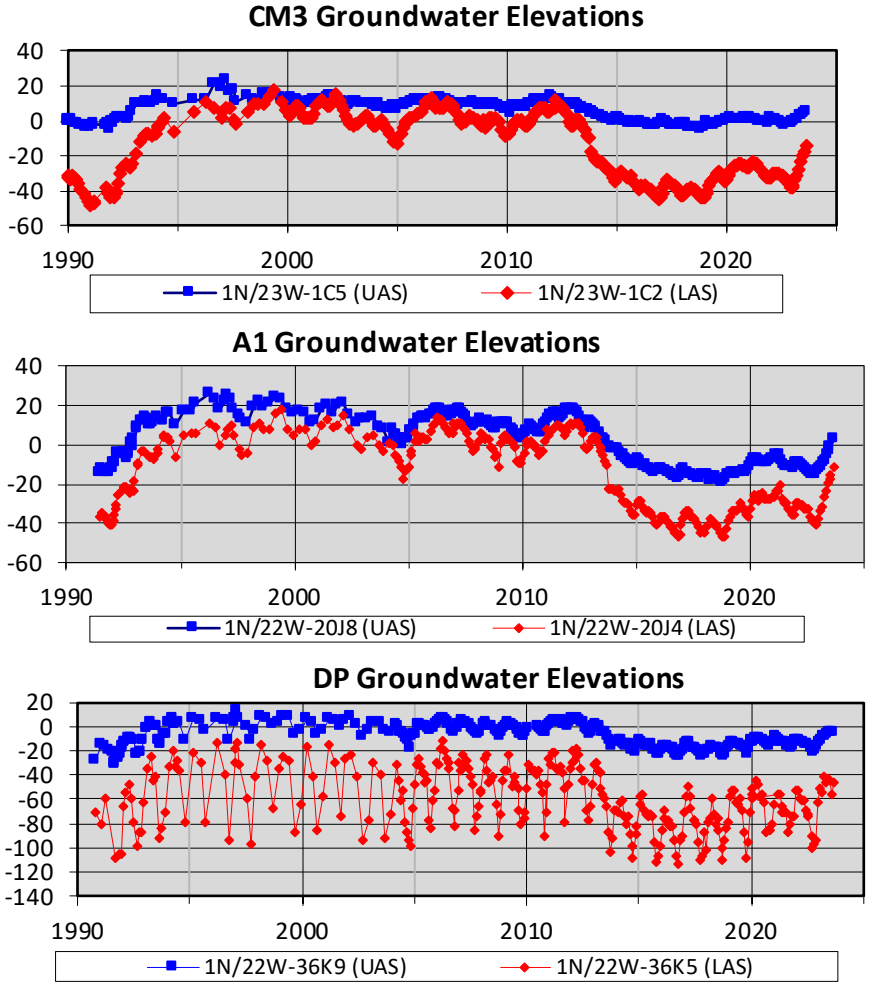
Groundwater Elevation Records – eastern Oxnard/Pleasant Valley Basin Boundary Area

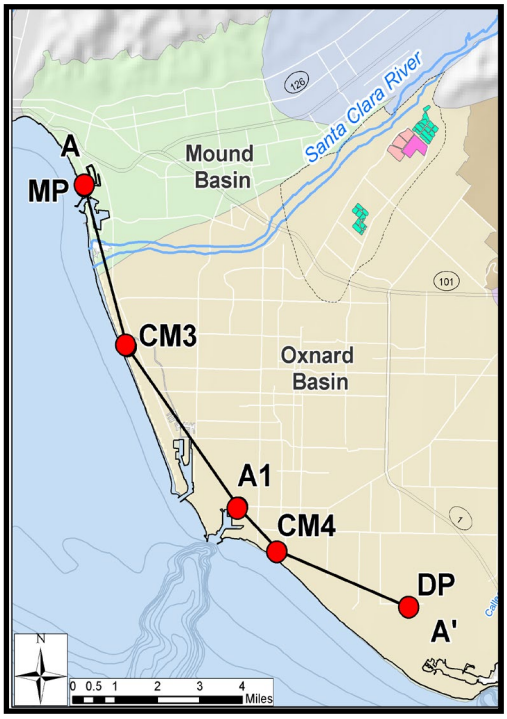


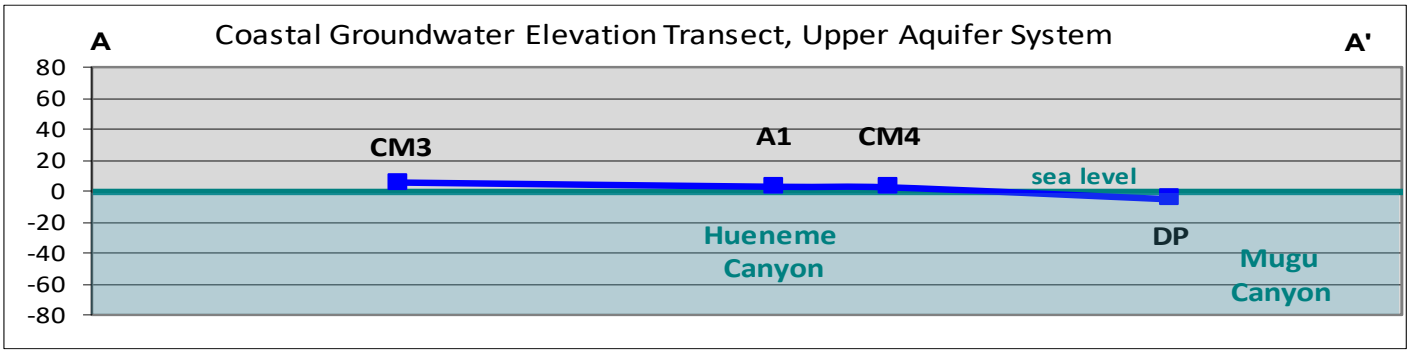
Groundwater Elevation Records – Pleasant Valley Basin

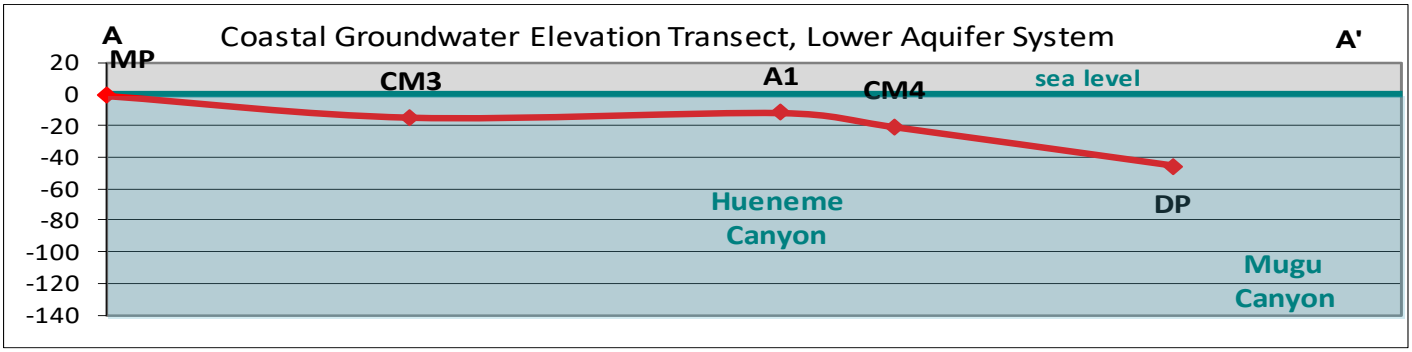


Groundwater Elevation Records – Coastal Nested Monitoring Wells







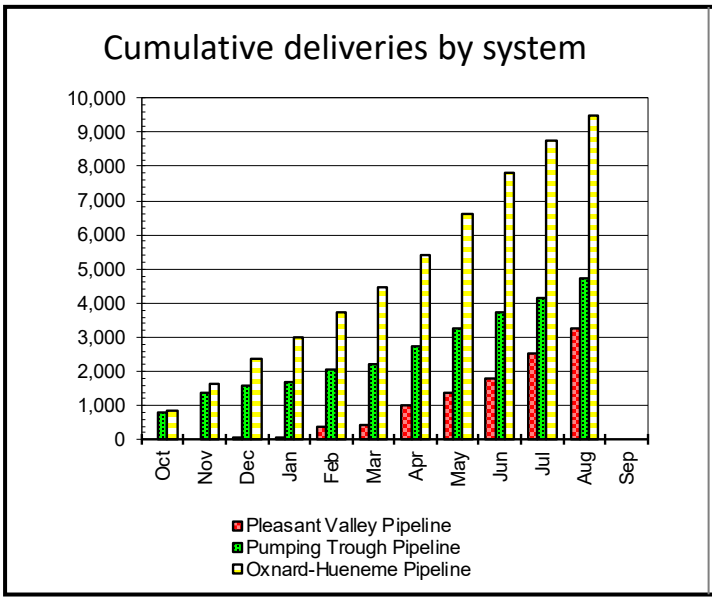


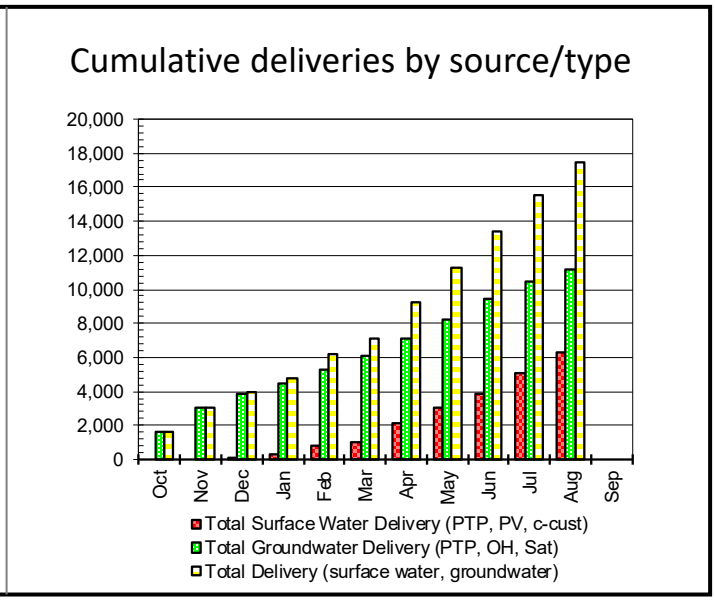
Monthly Water Deliveries, acre-feet (Water Year 2022/23)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	0.0	0.0	7.9	84.3	312.8	18.9	598.8	330.0	425.1	766.1	691.1	
PV Pipeline (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total to Pleasant Valley Pipeline	0.0	0.0	7.9	84.3	312.8	18.9	598.8	330.0	425.1	766.1	691.1	
PTP (surface water)	0.0	0.0	64.5	143.7	207.7	186.7	507.1	538.9	461.6	414.0	541.0	
PTP (PTP 1-5)	706.9	500.4	145.6	0.0	117.3	9.1	2.2	0.3	6.5	0.0	0.0	
PTP (OH-12/13)	116.5	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PTP (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total PTP	823.4	532.5	210.1	143.7	325.0	195.8	509.3	539.2	468.1	414.0	541.0	
C-customers (surface water)	0	0	0	0	0	0	0	0	0	0	0	
Saticoy Well Field (groundwater)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
O-H Pipeline (groundwater)	835.8	818.2	713.2	643.3	700.3	730.8	986.3	1,175.4	1,233.1	942.7	728.4	
Total Surface Water Delivery (PTP, PV, c-cust)	0.0	0.0	72.4	228.0	520.5	205.6	1,105.9	868.9	886.7	1,180.1	1,232.1	
Total Groundwater Delivery (PTP, OH, Sat)	1,659.2	1,350.7	858.8	643.3	817.6	739.9	988.5	1,175.7	1,239.6	942.7	728.4	
Total Delivery (surface water, groundwater)	1,659.2	1,350.7	931.2	871.3	1,338.1	945.5	2,094.4	2,044.6	2,126.3	2,122.8	1,960.5	

Cumulative Water Deliveries, acre-feet (Water Year 2022/23)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	0.0	0.0	7.9	92.2	405.0	423.9	1,022.7	1,352.7	1,777.8	2,543.9	3,235.0	
PV Pipeline (saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total to Pleasant Valley Pipeline	0.0	0.0	7.9	92.2	405.0	423.9	1,022.7	1,352.7	1,777.8	2,543.9	3,235.0	
PTP (surface water)	0.0	0.0	64.5	208.2	415.9	602.6	1,109.7	1,648.6	2,110.2	2,524.2	3,065.2	
PTP (PTP 1-5)	706.9	1,207.3	1,352.9	1,352.9	1,470.2	1,479.3	1,481.5	1,481.8	1,488.3	1,488.3	1,488.3	
PTP (OH-12/13)	116.5	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	
PTP (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total PTP	823.4	1,355.9	1,566.0	1,709.7	2,034.7	2,230.5	2,739.8	3,279.0	3,747.1	4,161.1	4,702.1	
C-customers (surface water)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Saticoy Well Field (groundwater)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
O-H Pipeline (groundwater)	835.8	1,654.0	2,367.2	3,010.5	3,710.8	4,441.6	5,427.9	6,603.3	7,836.4	8,779.1	9,507.5	
Total Surface Water Delivery (PTP, PV, c-cust)	0.0	0.0	72.4	300.4	820.9	1,026.5	2,132.4	3,001.3	3,888.0	5,068.1	6,300.2	
Total Groundwater Delivery (PTP, OH, Sat)	1,659.2	3,009.9	3,868.7	4,512.0	5,329.6	6,069.5	7,058.0	8,233.7	9,473.3	10,416.0	11,144.4	
Total Delivery (surface water, groundwater)	1,659.2	3,009.9	3,941.1	4,812.4	6,150.5	7,096.0	9,190.4	11,235.0	13,361.3	15,484.1	17,444.6	



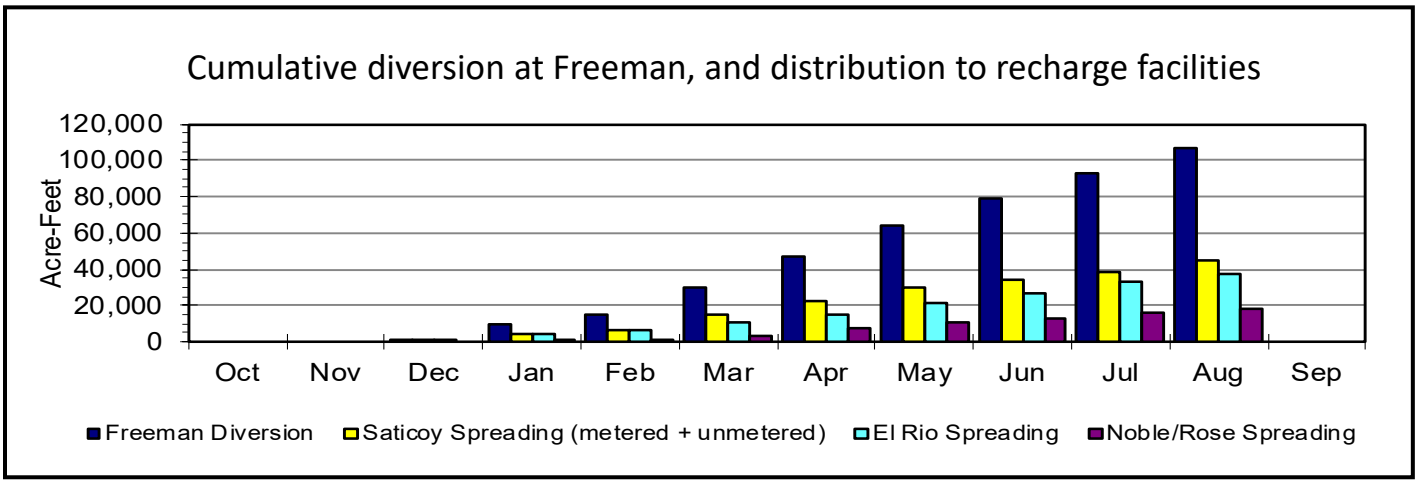


Monthly diversion and recharge totals by facility, 2022/23, in acre-feet

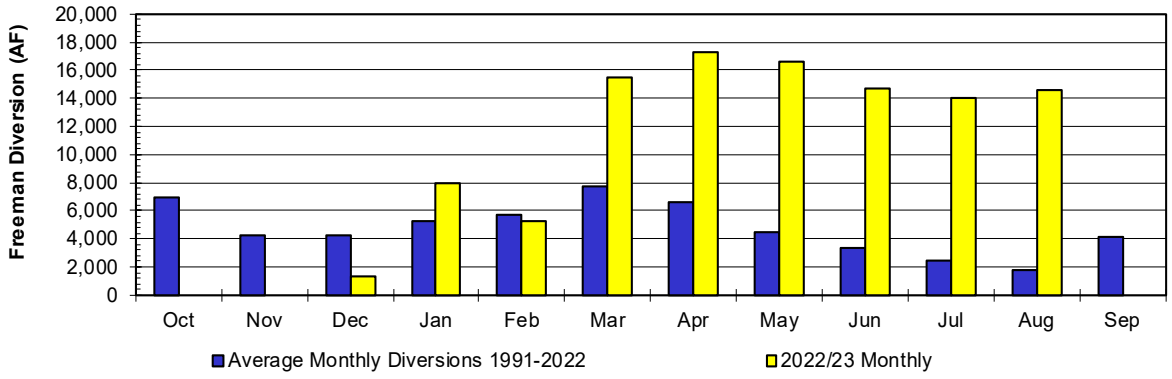
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	7,937	3,775	3,751	183	0
Feb	0	5,268	2,347	2,127	274	15
Mar	0	15,517	7,754	4,751	2,806	3
Apr	0	17,306	7,870	4,522	3,791	17
May	0	16,604	6,861	5,434	3,423	18
Jun	0	14,656	5,158	6,114	2,480	27
Jul	0	14,048	3,890	5,986	2,954	38
Aug	0	14,552	6,182	4,387	2,712	39
Sep						

Cumulative diversion and recharge totals by facility, 2022/23, in acre-feet

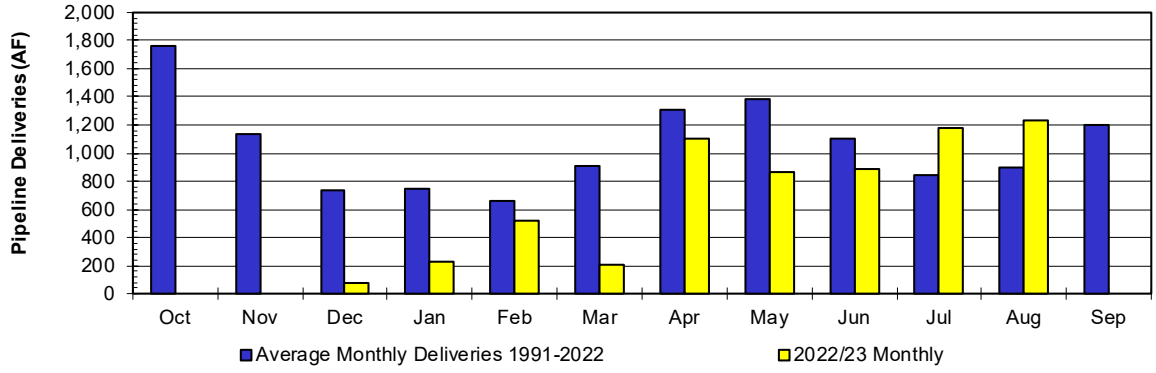
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	9,297	4,675	4,138	183	1
Feb	0	14,565	7,022	6,265	457	16
Mar	0	30,082	14,776	11,016	3,263	19
Apr	0	47,388	22,646	15,538	7,054	36
May	0	63,992	29,506	20,972	10,477	53
Jun	0	78,648	34,665	27,086	12,957	80
Jul	0	92,696	38,554	33,072	15,911	119
Aug	0	107,248	44,736	37,459	18,623	158
Sep						



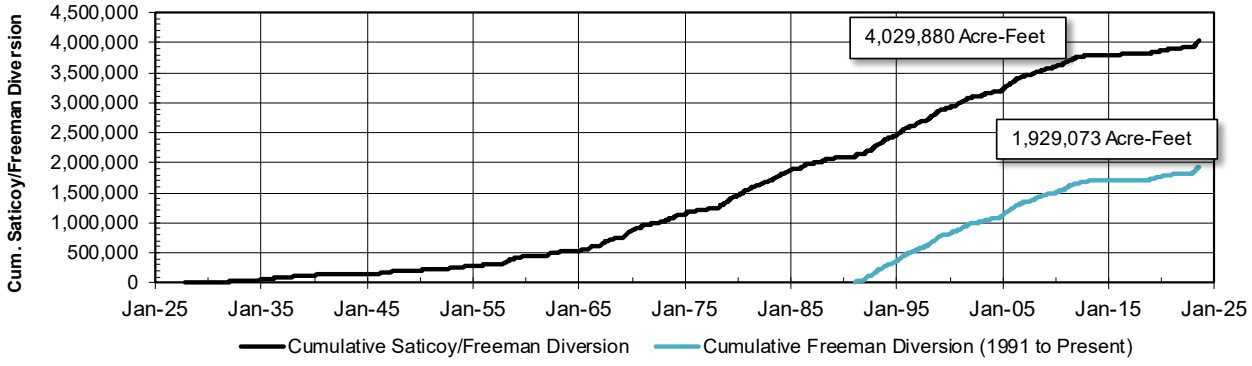
Monthly 2022/23 diversion at Freeman, compared to average monthly diversions (1991-2022)



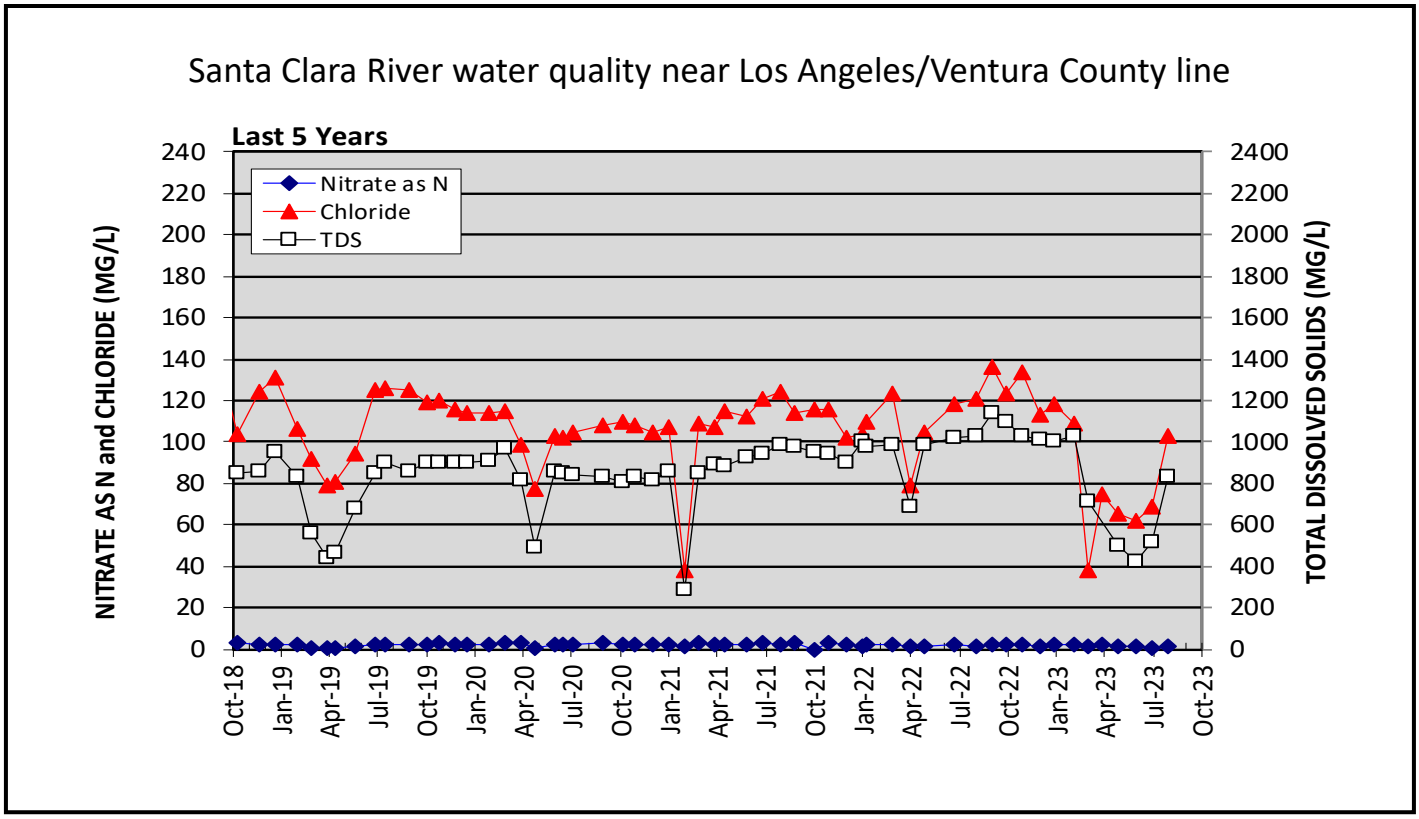
Monthly 2022/23 pipeline deliveries (surface water deliveries), compared to average monthly pipeline deliveries (1991-2022)

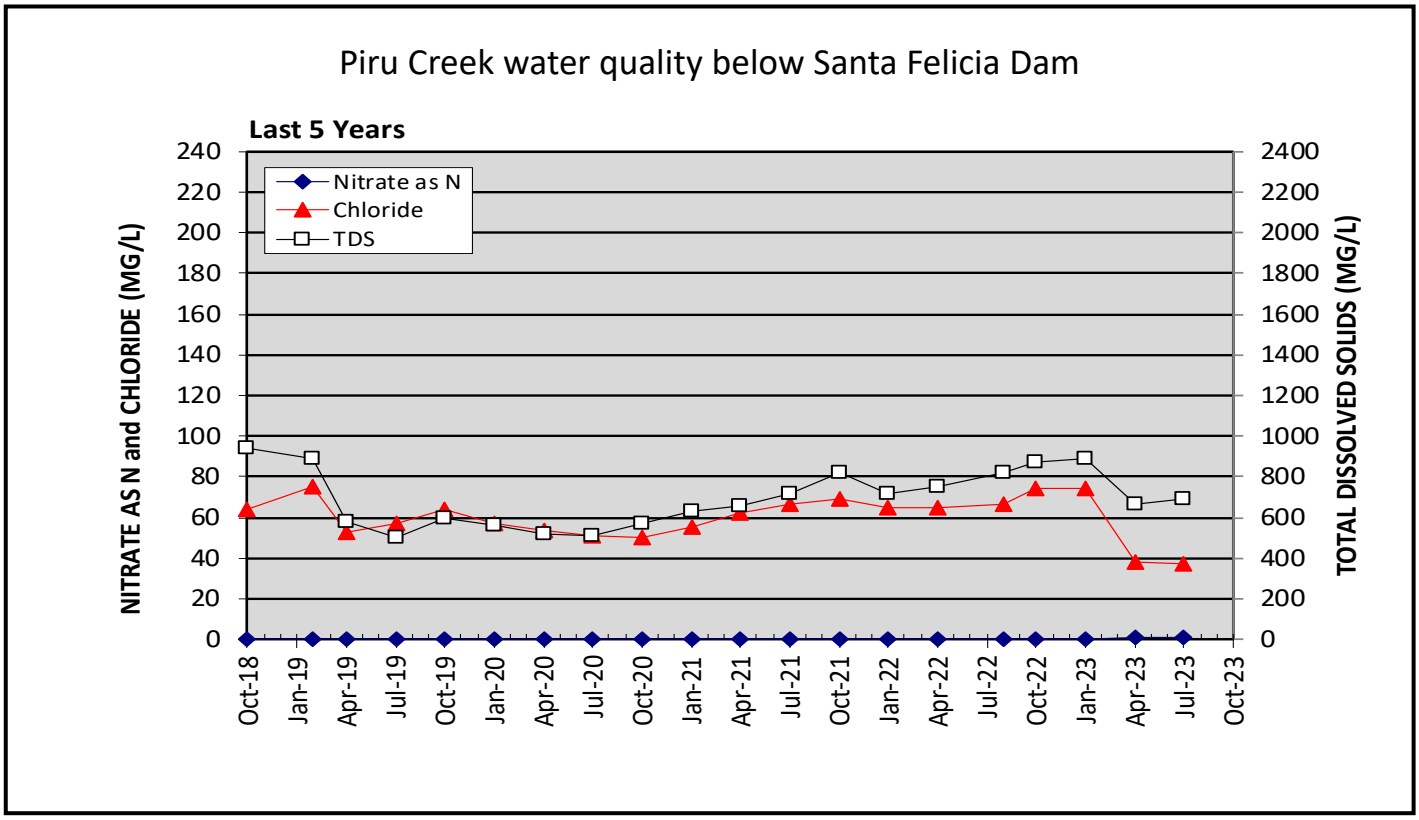


Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

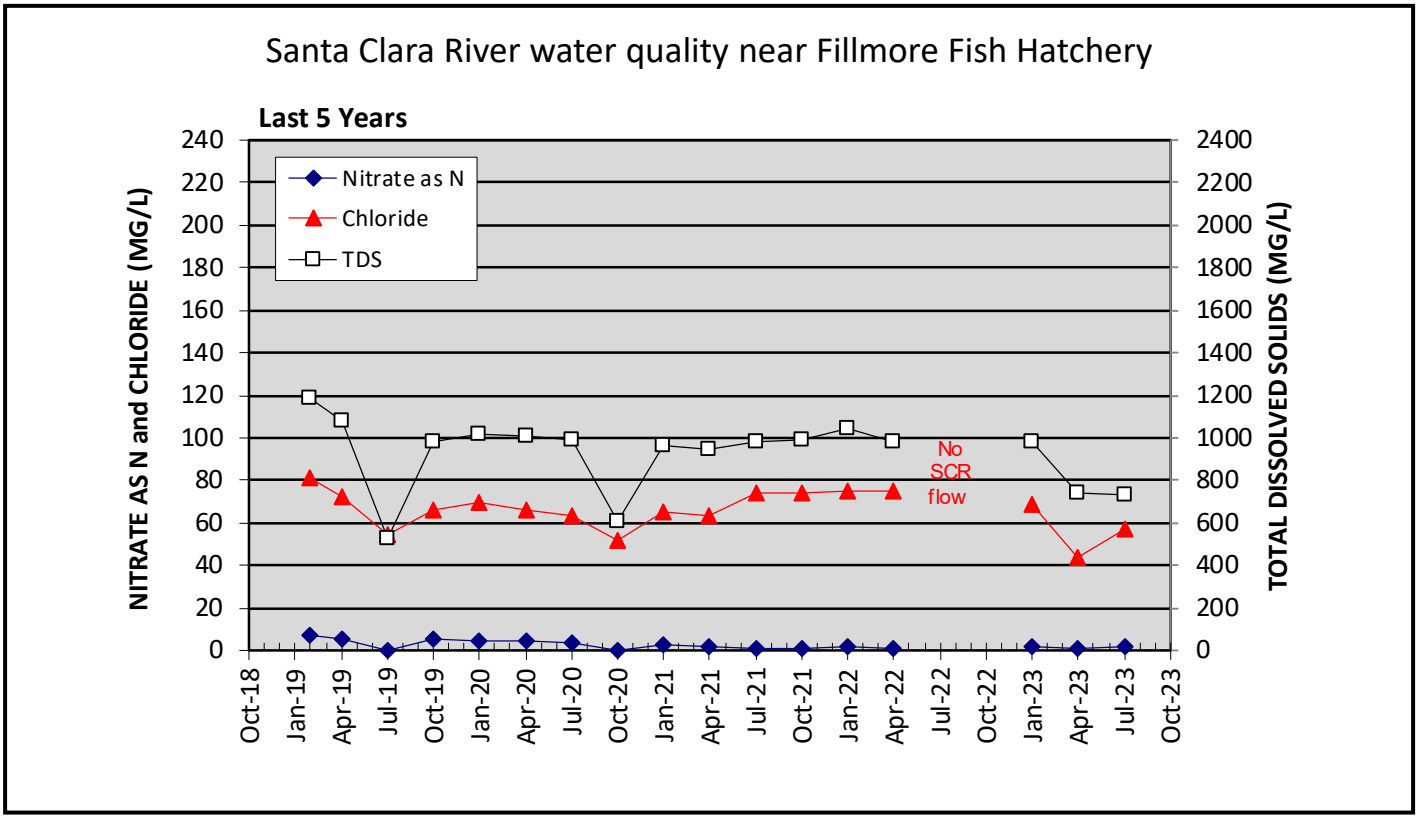


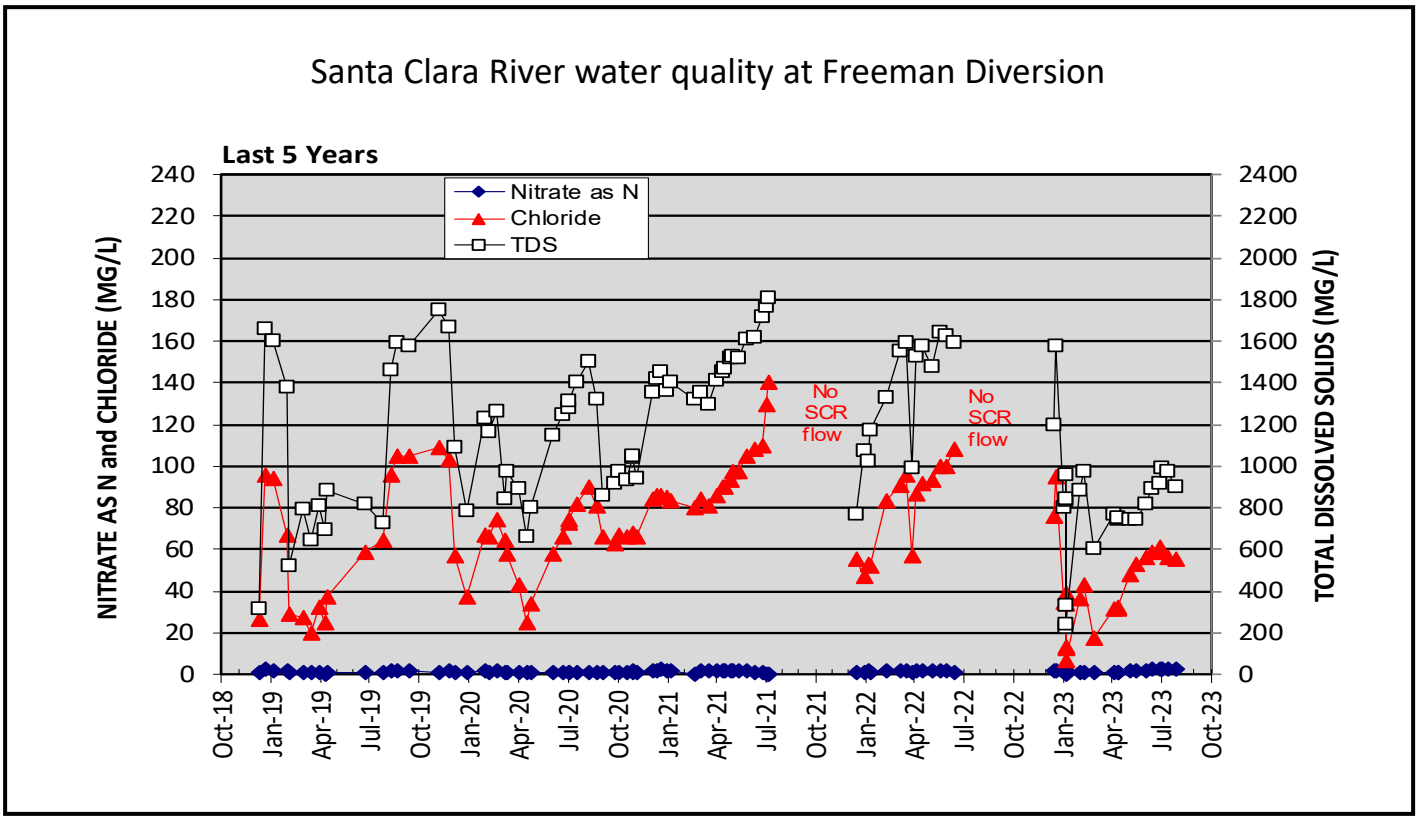
Water Quality



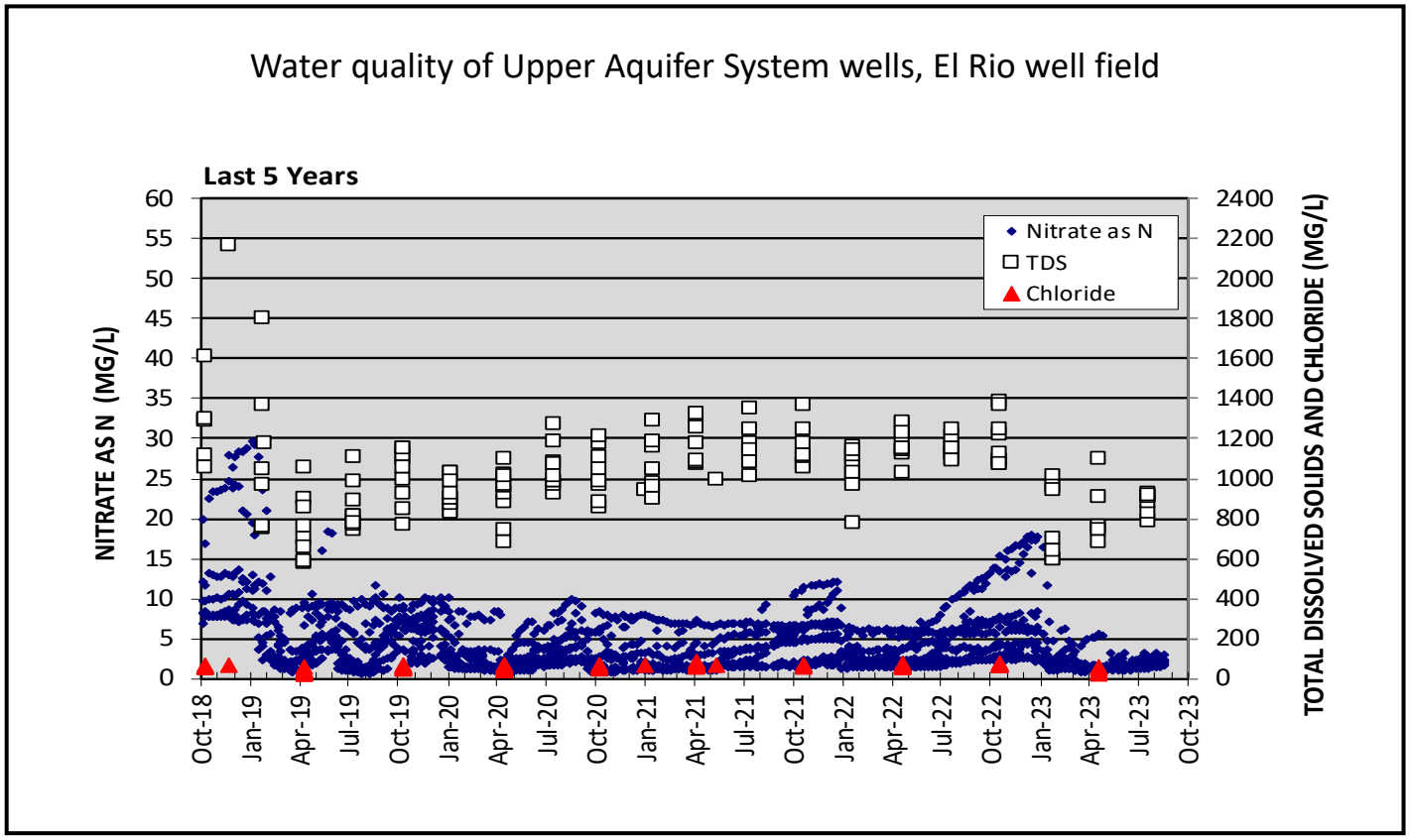


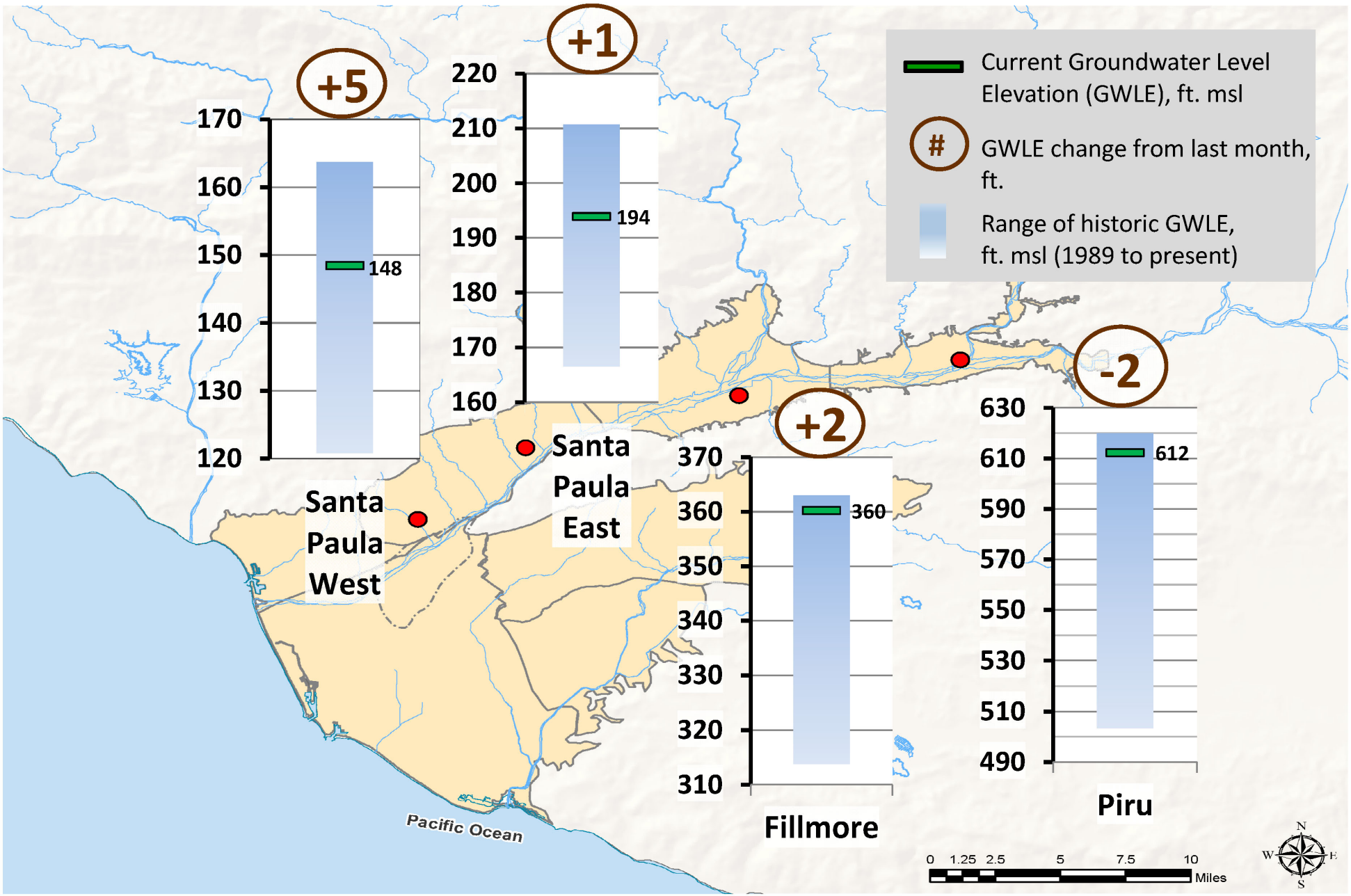
Water Quality

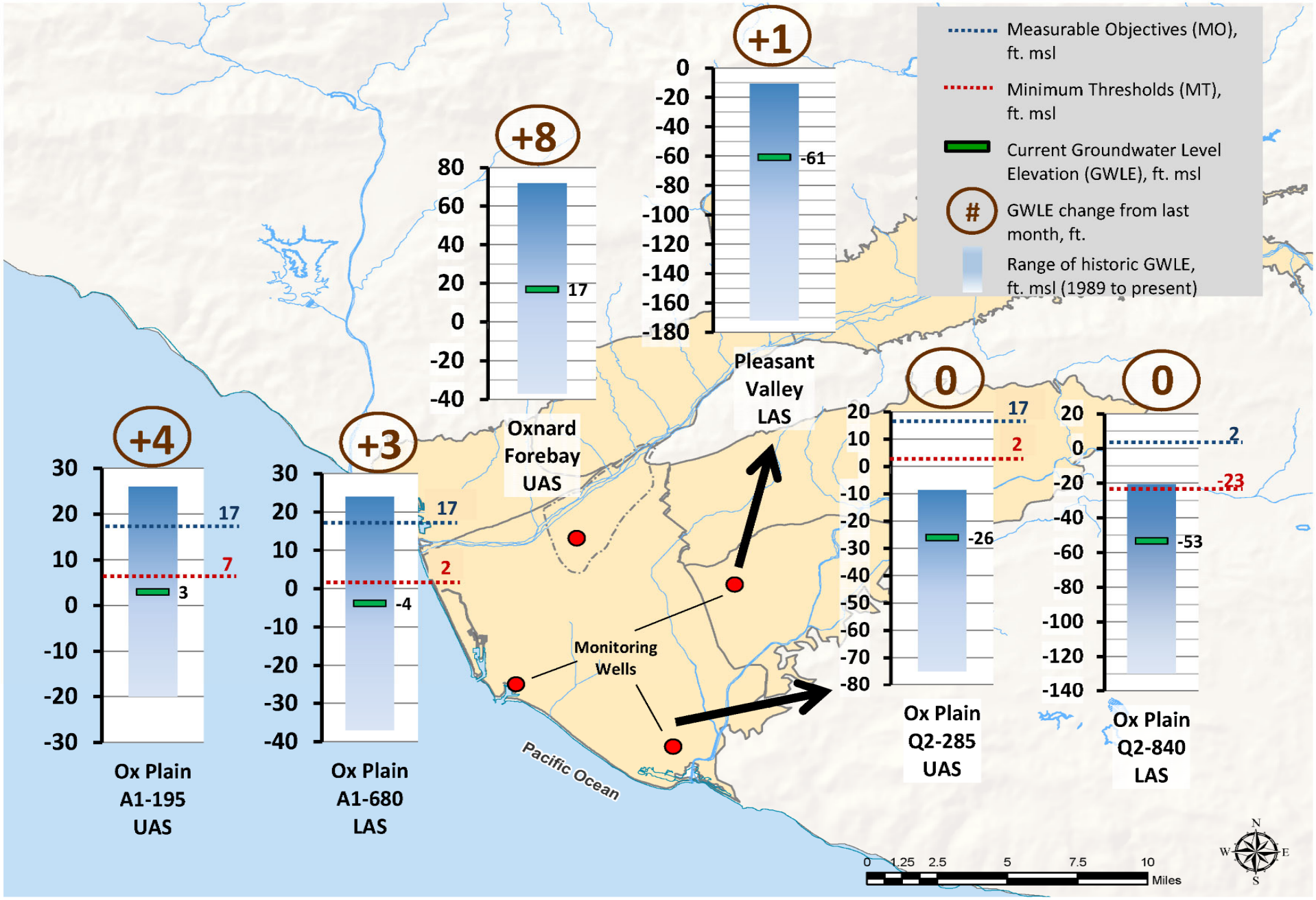


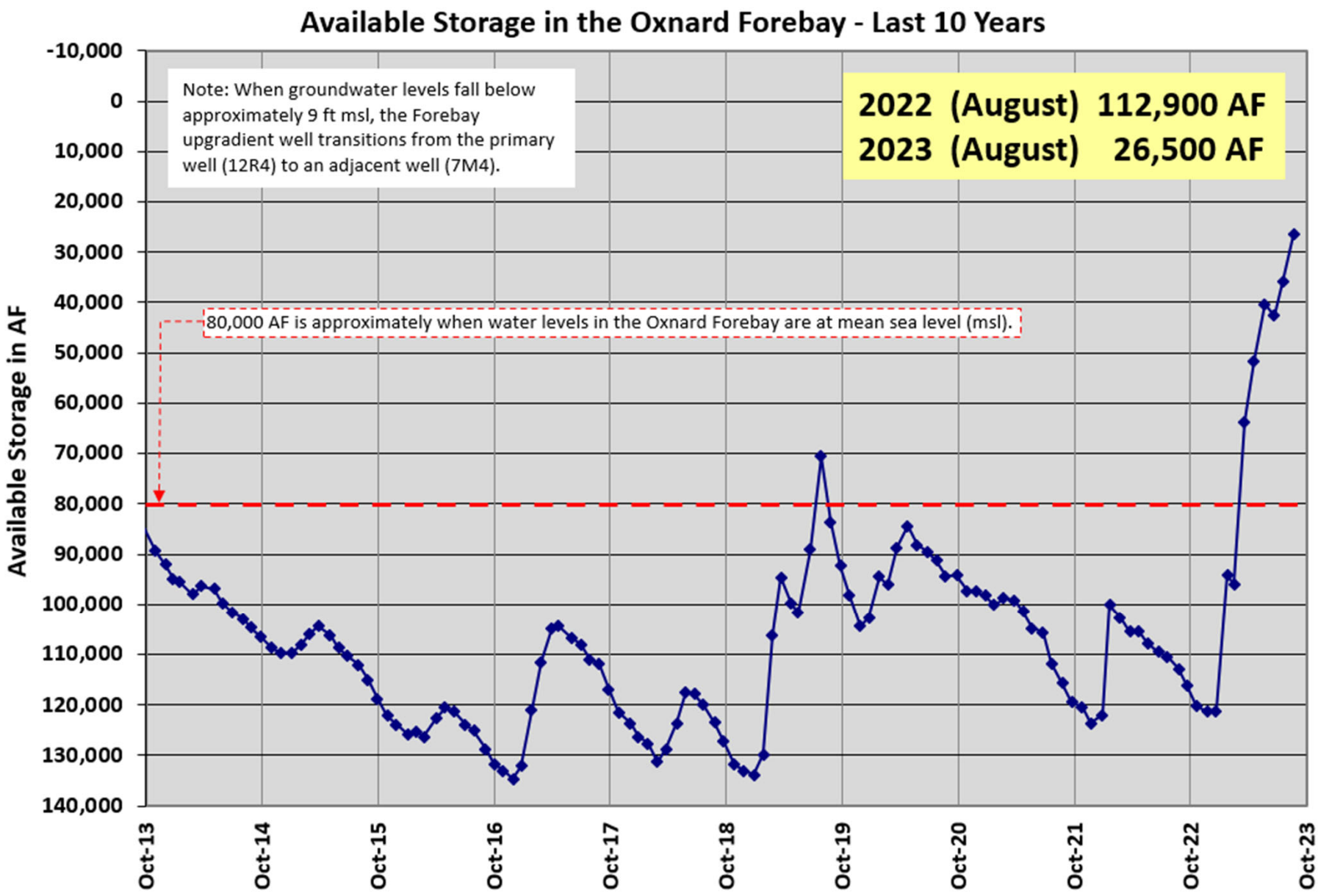


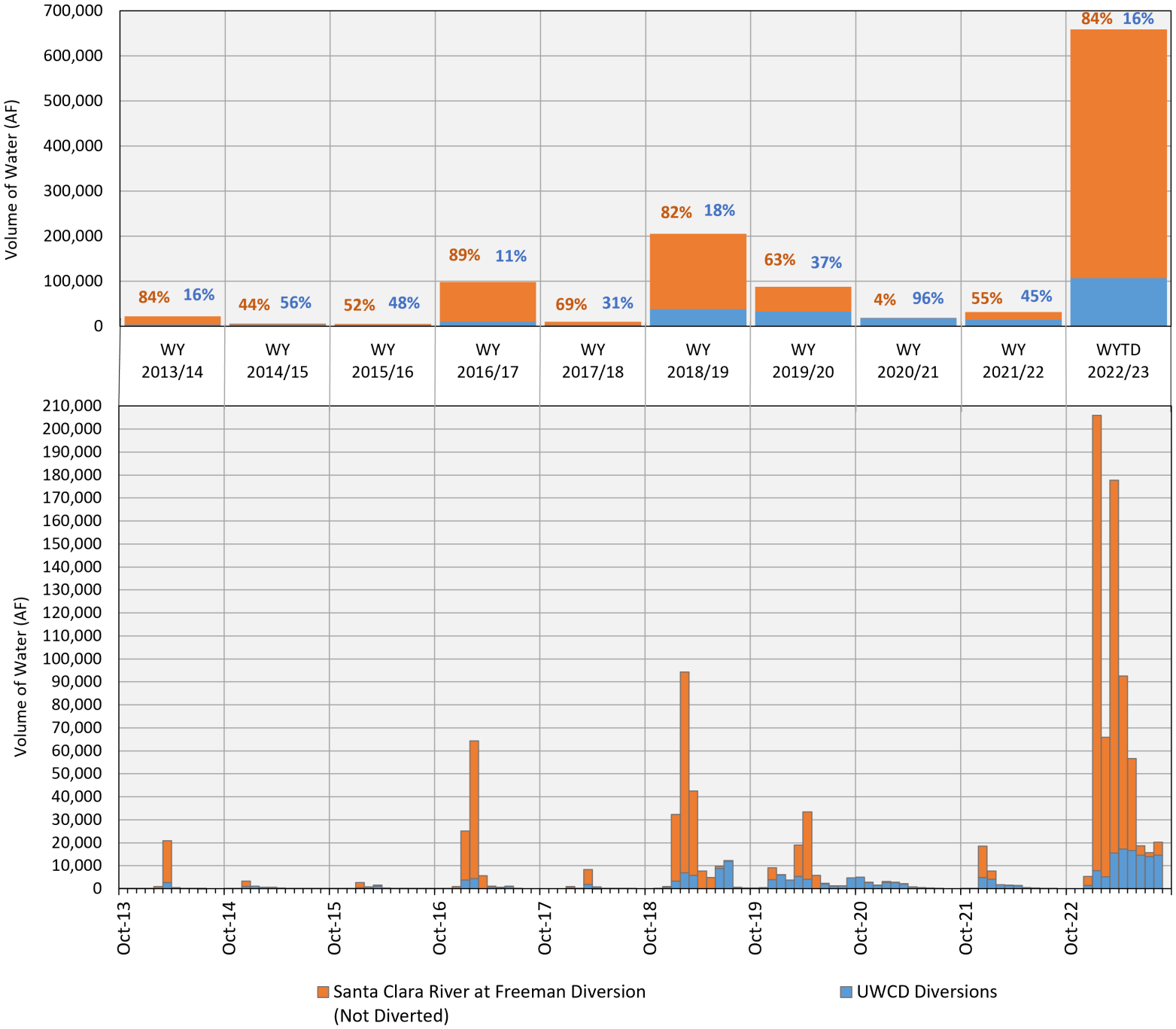
Water Quality




Current Groundwater Level Elevation (GWLE), ft. msl
#
GWLE change from last month, ft.
Range of historic GWLE, ft. msl (1989 to present)
+5
170
160
150
140
130
120
148
Santa Paula West
+1
220
210
200
190
180
170
160
194
Santa Paula East
+2
370
360
350
340
330
320
310
360
Fillmore
-2
630
610
590
570
550
530
510
490
612
Piru
Pacific Ocean
0 1.25 2.5 5 7.5 10
Miles
N
W
E
S


Measurable Objectives (MO), ft. msl
Minimum Thresholds (MT), ft. msl
Current Groundwater Level Elevation (GWLE), ft. msl
GWLE change from last month, ft.
Range of historic GWLE, ft. msl (1989 to present)
+4
17
7
3
Ox Plain A1-195 UAS
+3
17
2
-4
Ox Plain A1-680 LAS
+8
17
Oxnard Forebay UAS
+1
-61
Pleasant Valley LAS
0
17
2
-26
Ox Plain Q2-285 UAS
0
2
-23
-53
Ox Plain Q2-840 LAS
Monitoring Wells
Pacific Ocean
0 1.25 2.5 5 7.5 10 Miles
N
S
E
W


Available Storage in the Oxnard Forebay - Last 10 Years
Note: When groundwater levels fall below approximately 9 ft msl, the Forebay upgradient well transitions from the primary well (12R4) to an adjacent well (7M4).
2022 (August) 112,900 AF
2023 (August) 26,500 AF
80,000 AF is approximately when water levels in the Oxnard Forebay are at mean sea level (msl).
Available Storage in AF
-10,000
0
10,000
20,000
30,000
40,000
50,000
60,000
70,000
80,000
90,000
100,000
110,000
120,000
130,000
140,000
Oct-13
Oct-14
Oct-15
Oct-16
Oct-17
Oct-18
Oct-19
Oct-20
Oct-21
Oct-22
Oct-23



Water Year (WY) = October 1 to September 30; WYTD = Water Year To Date