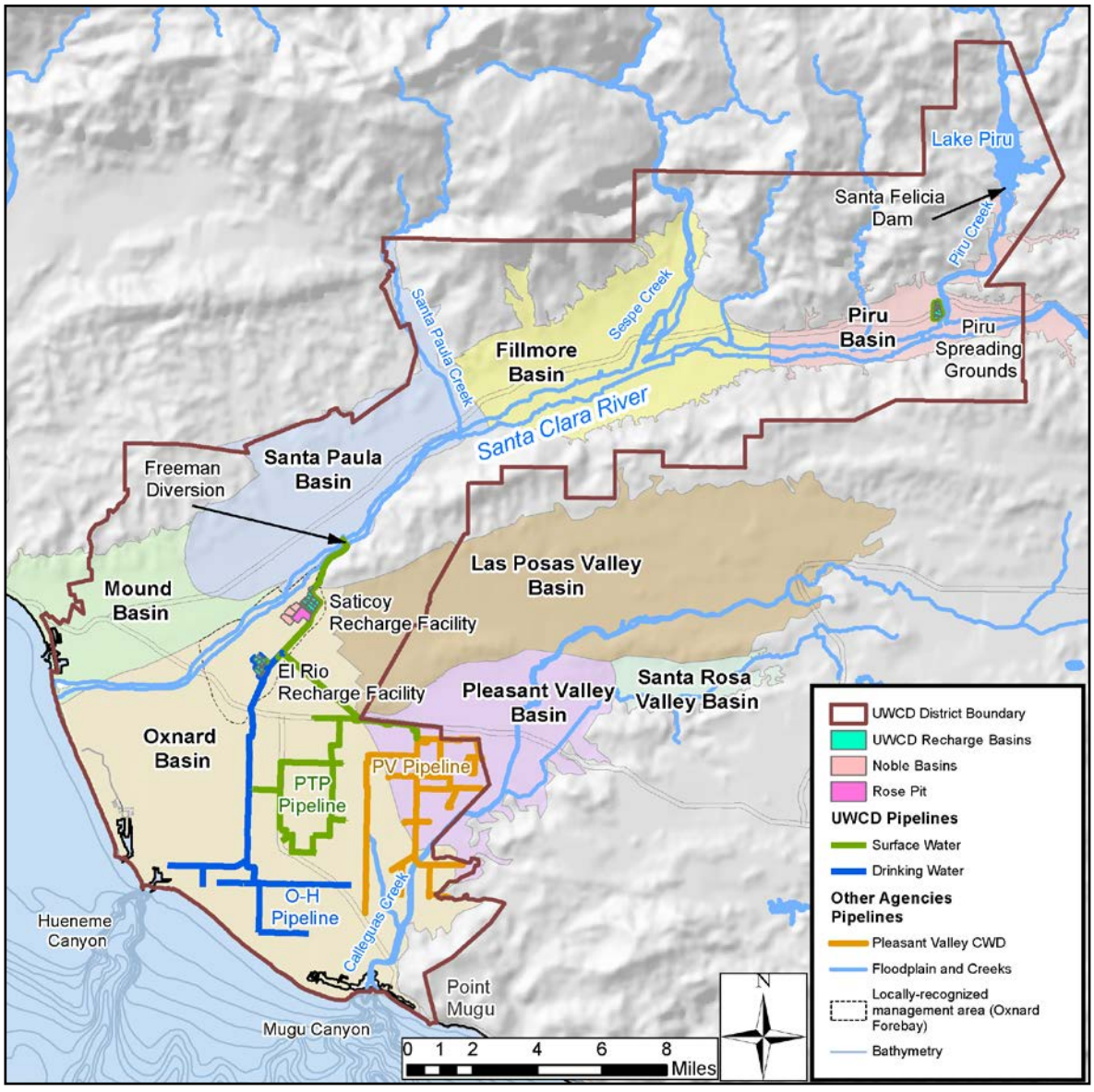
United Water CONSERVATION DISTRICT

November 2022 Hydrologic Conditions Report
2022/23 Water Year

December 6, 2022



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

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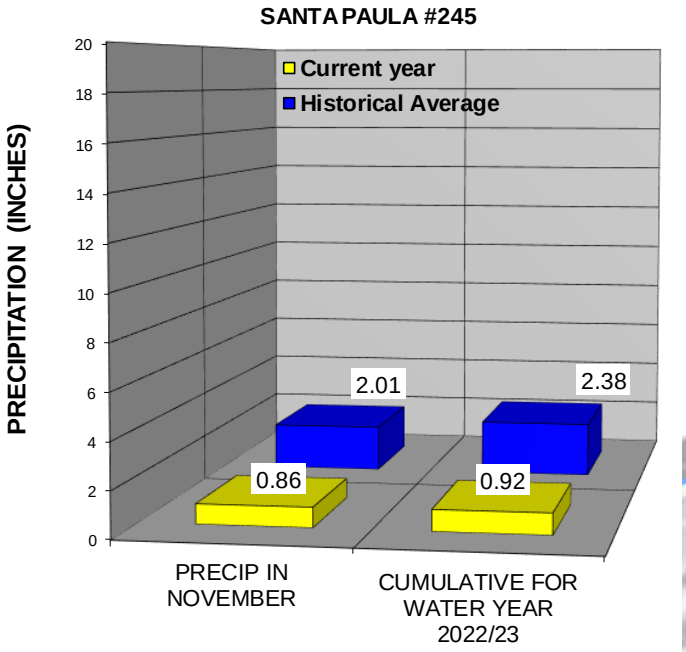
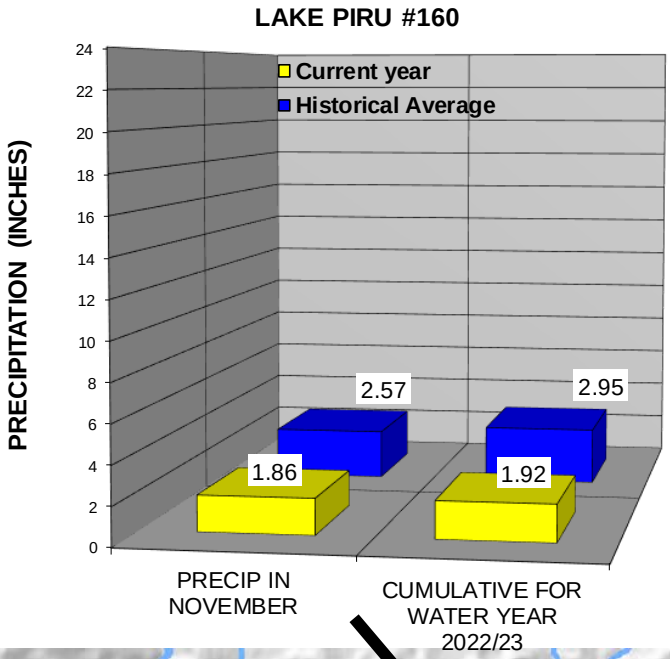
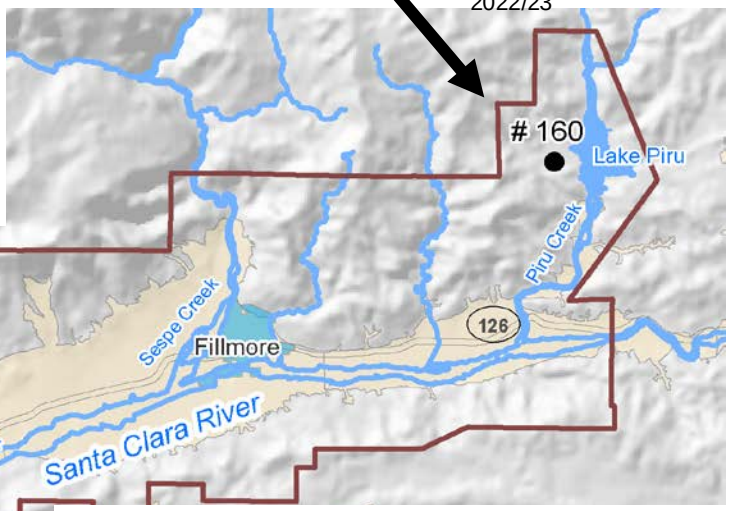
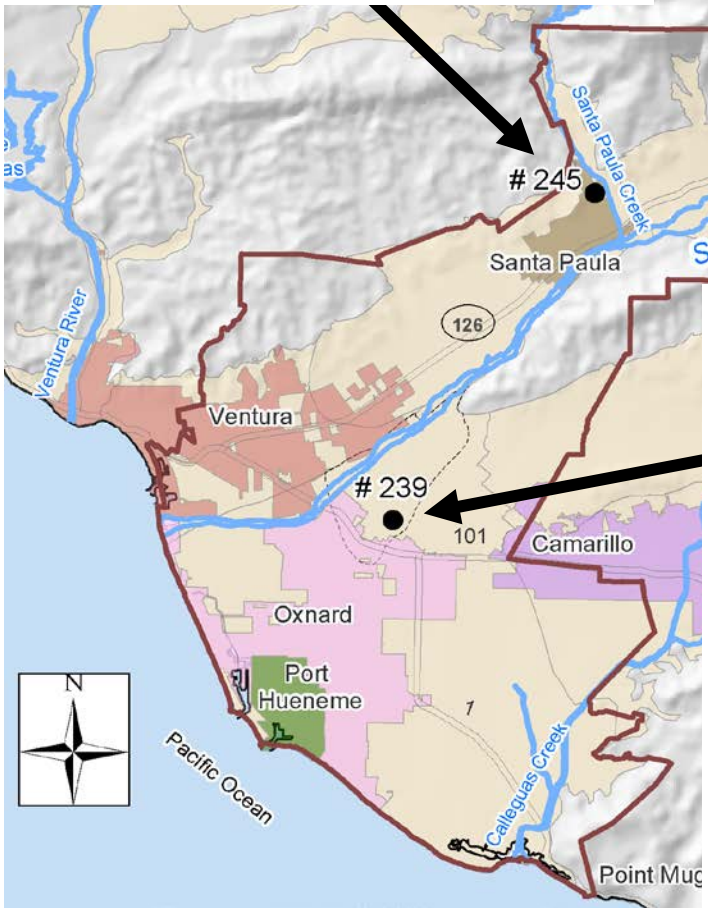
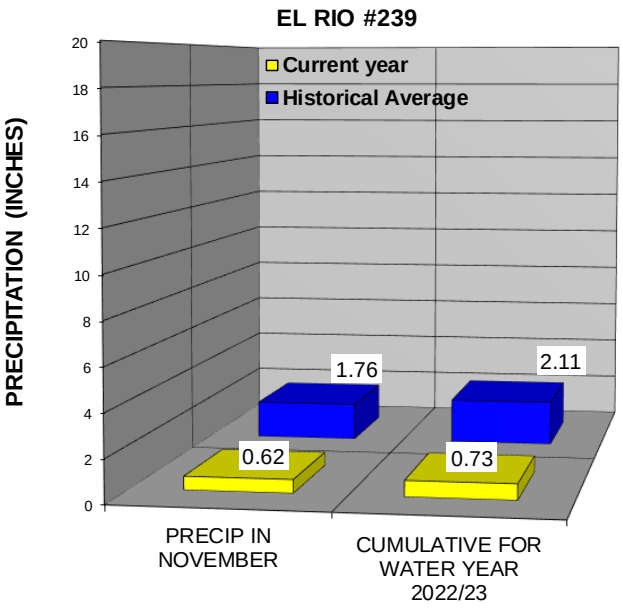
Precipitation



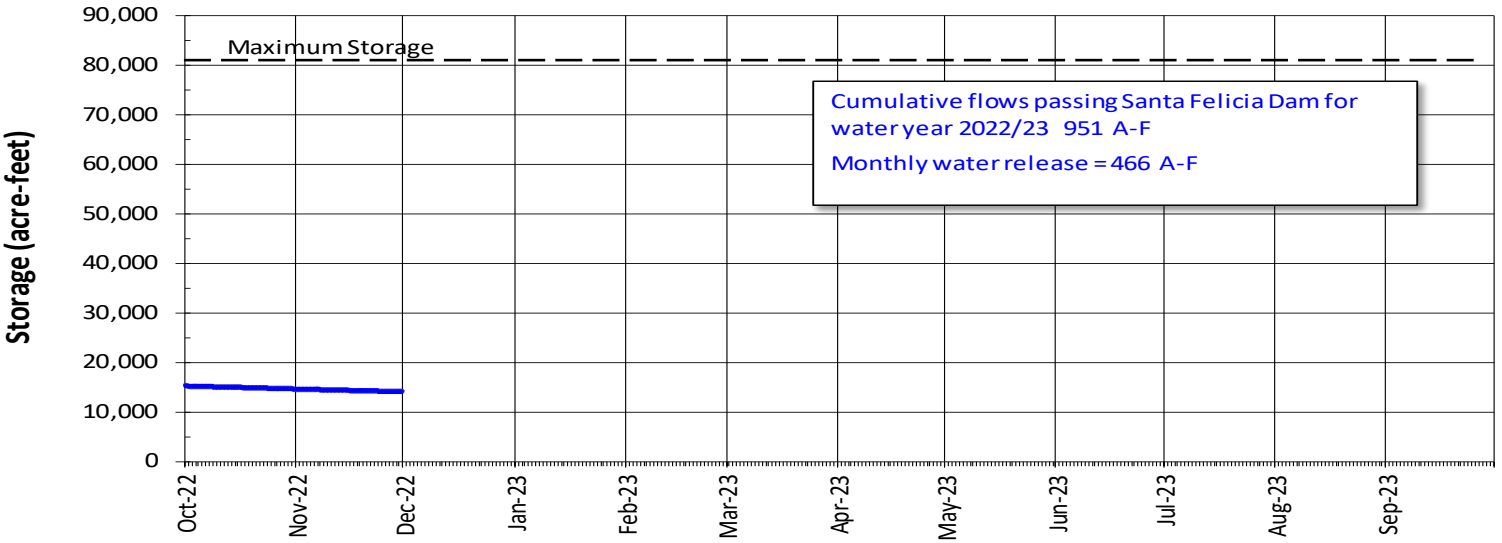






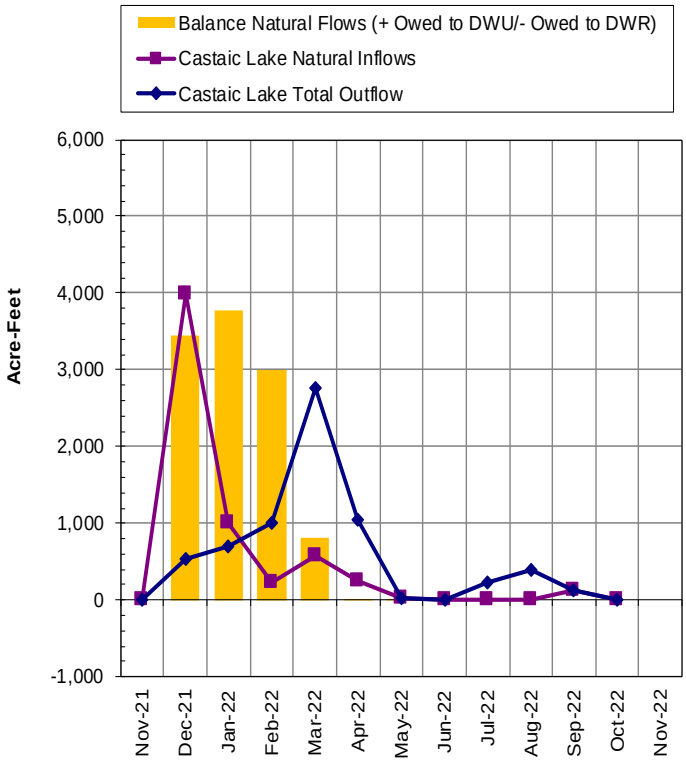


District-wide percent of normal precipitation = 48%

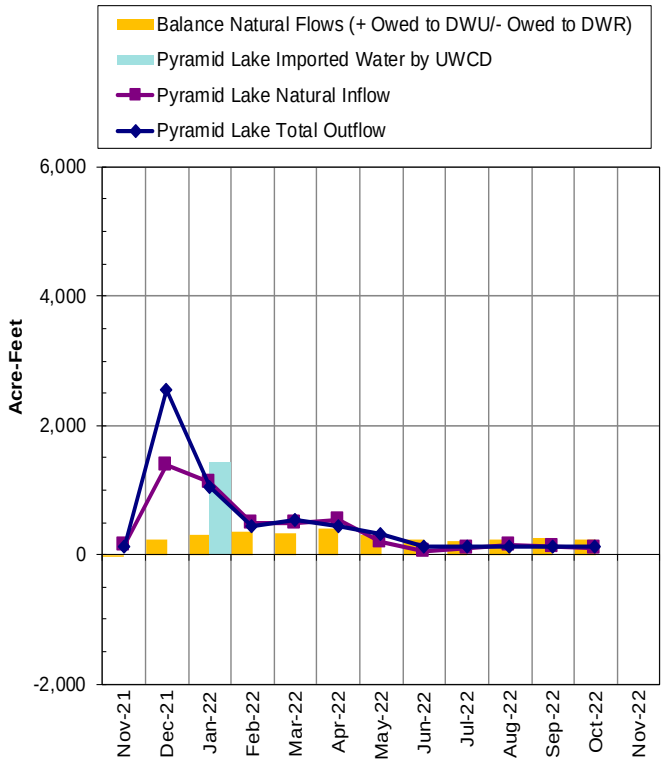


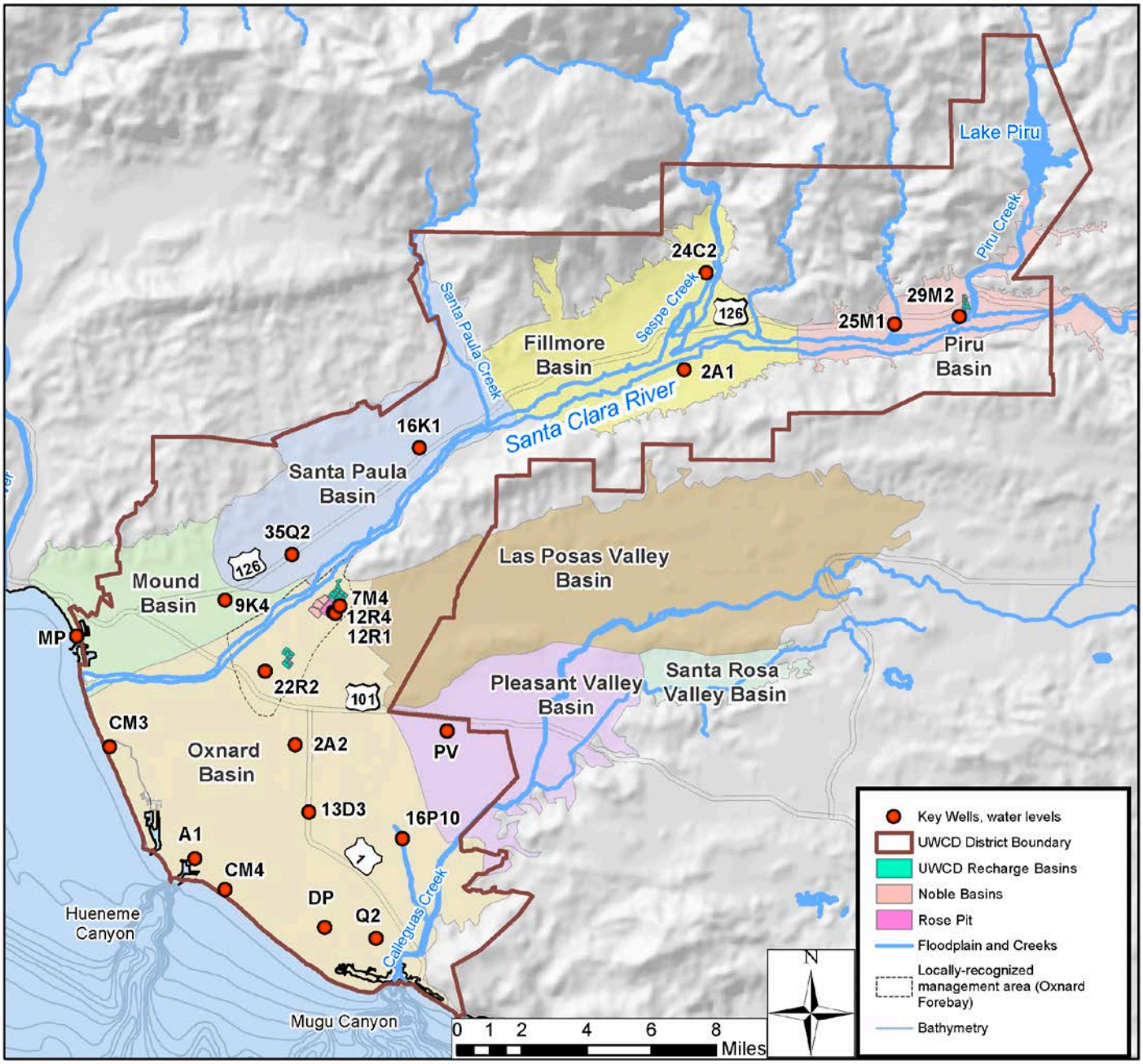
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Hydro Plant Outflow (Acre-Feet)	0	0										
Cumulative Hydro Plant Outflow (A-F)	0	0										

Castaic Lake releases to downstream water users (DWU)



Pyramid Lake releases to UWCD

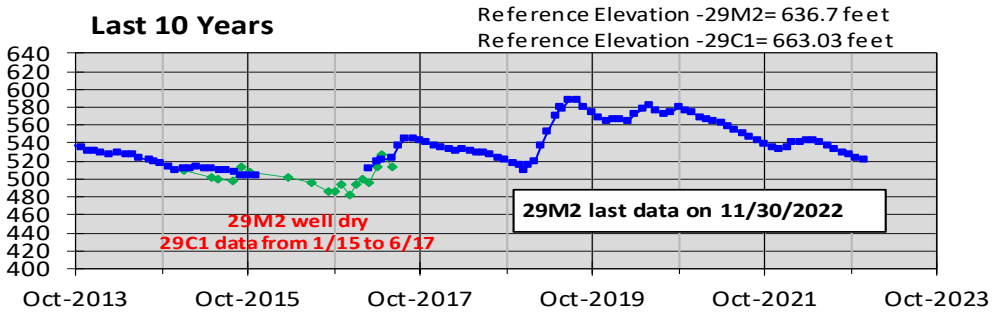


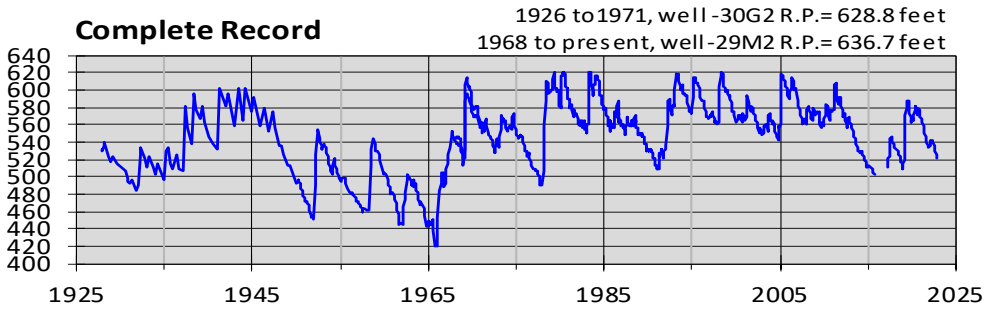


Locations of Key Wells, Monthly Groundwater Elevation Monitoring

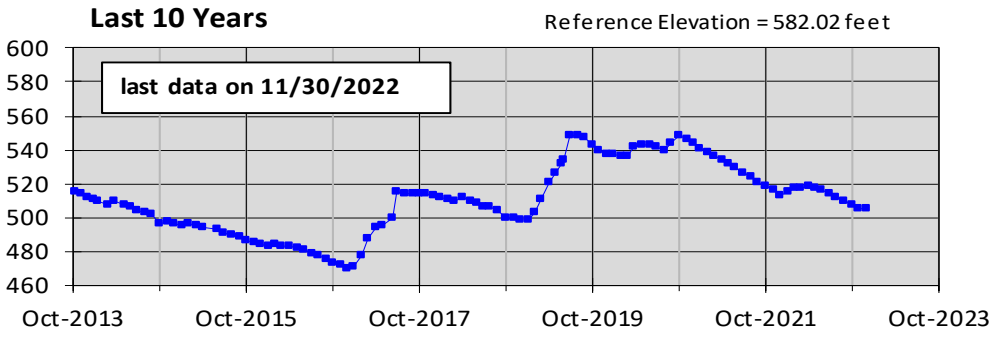
Groundwater Elevation Records – Piru Basin

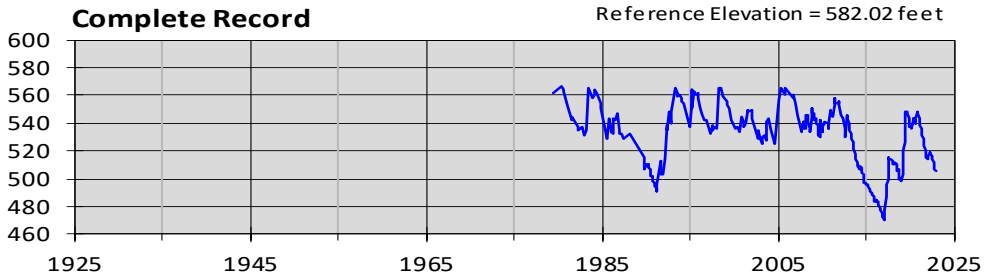
Well 04N18W29M02S (29M2)





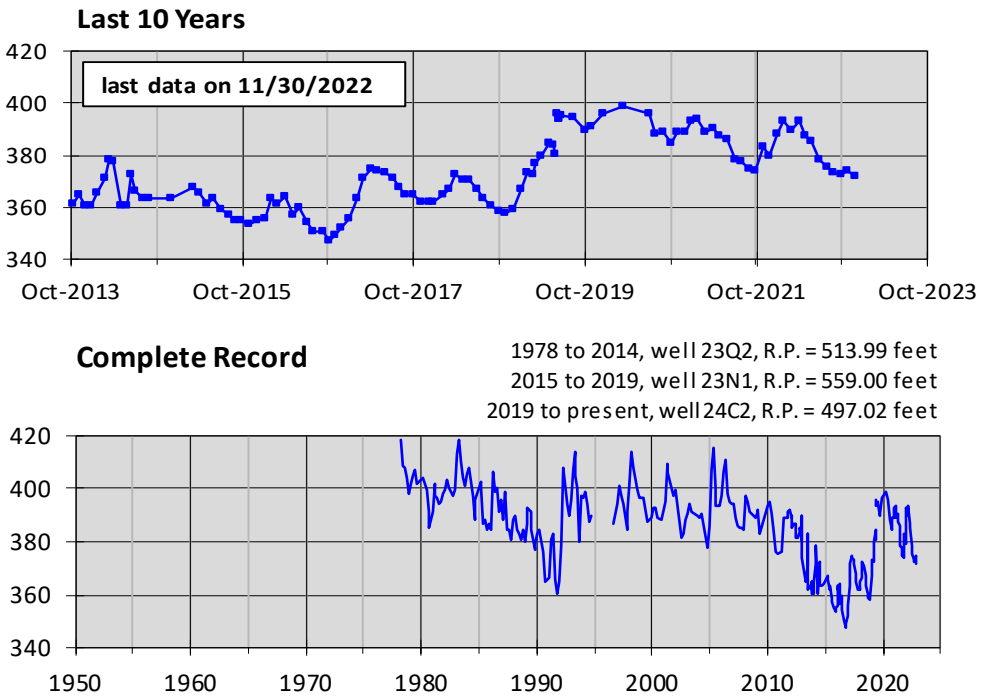
Well 04N19W25M01S (25M1)



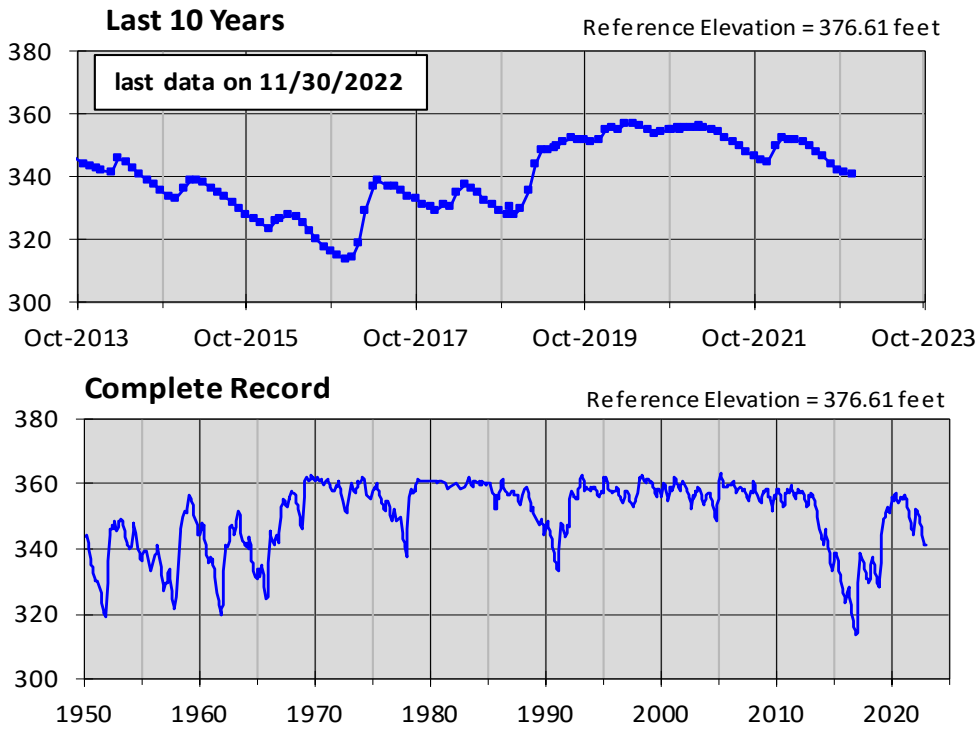


Groundwater Elevation Records – Fillmore Basin

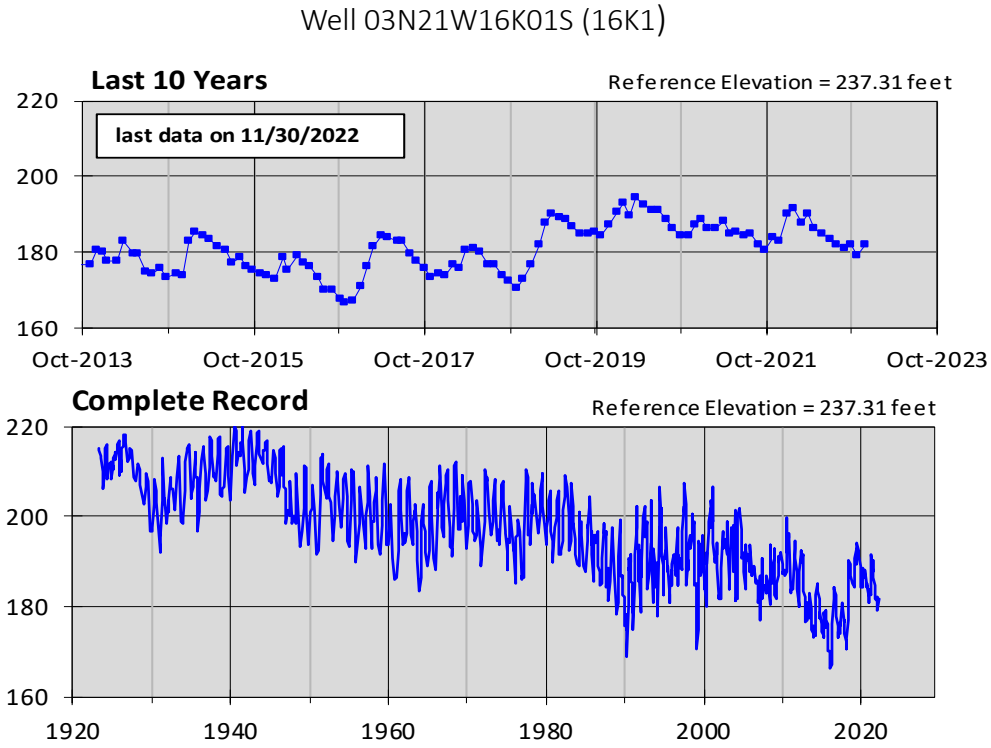
Well 04N20W24C02S (24C2)



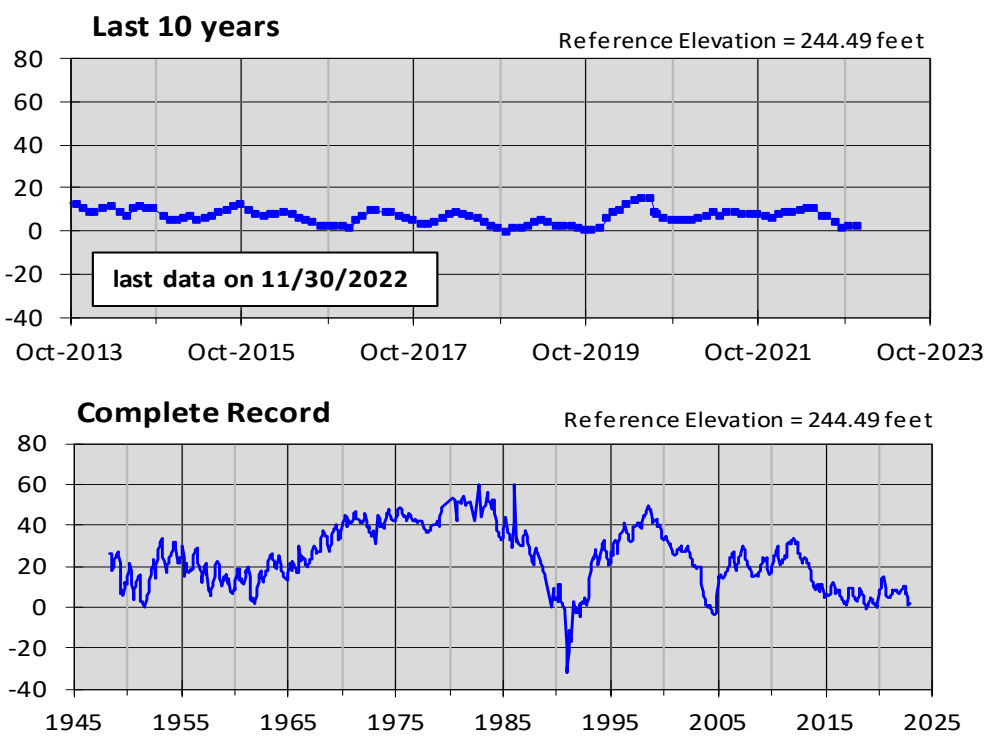
Well 03N20W02A01S (2A1)



Groundwater Elevation Records – Santa Paula Basin

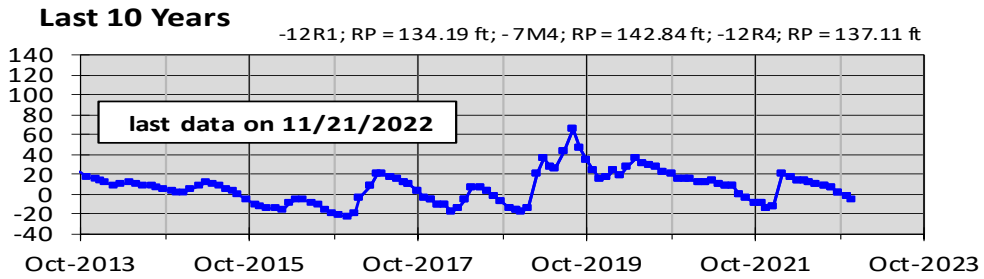


Groundwater Elevation Records – Mound Basin

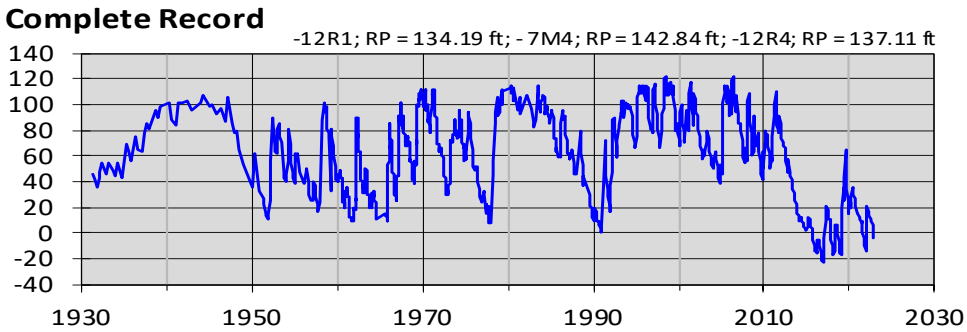


Groundwater Elevation Records – Oxnard Basin, Forebay

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

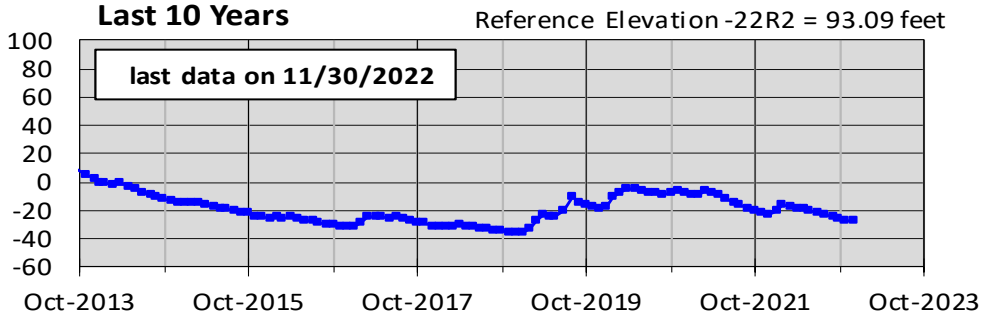


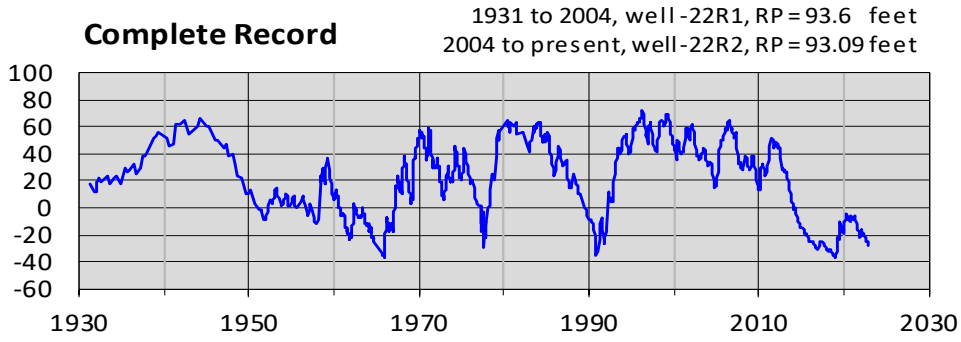
Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.



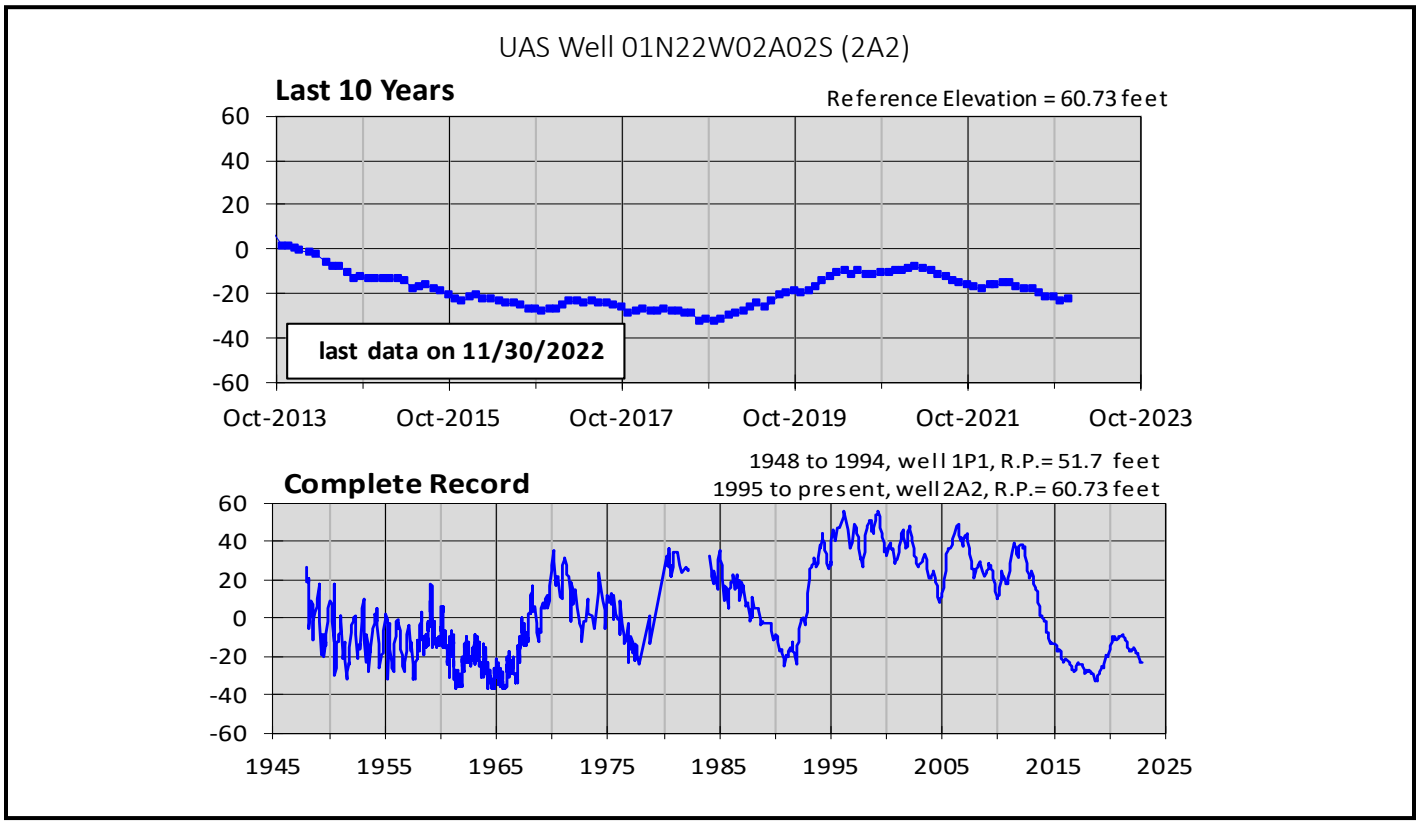
Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

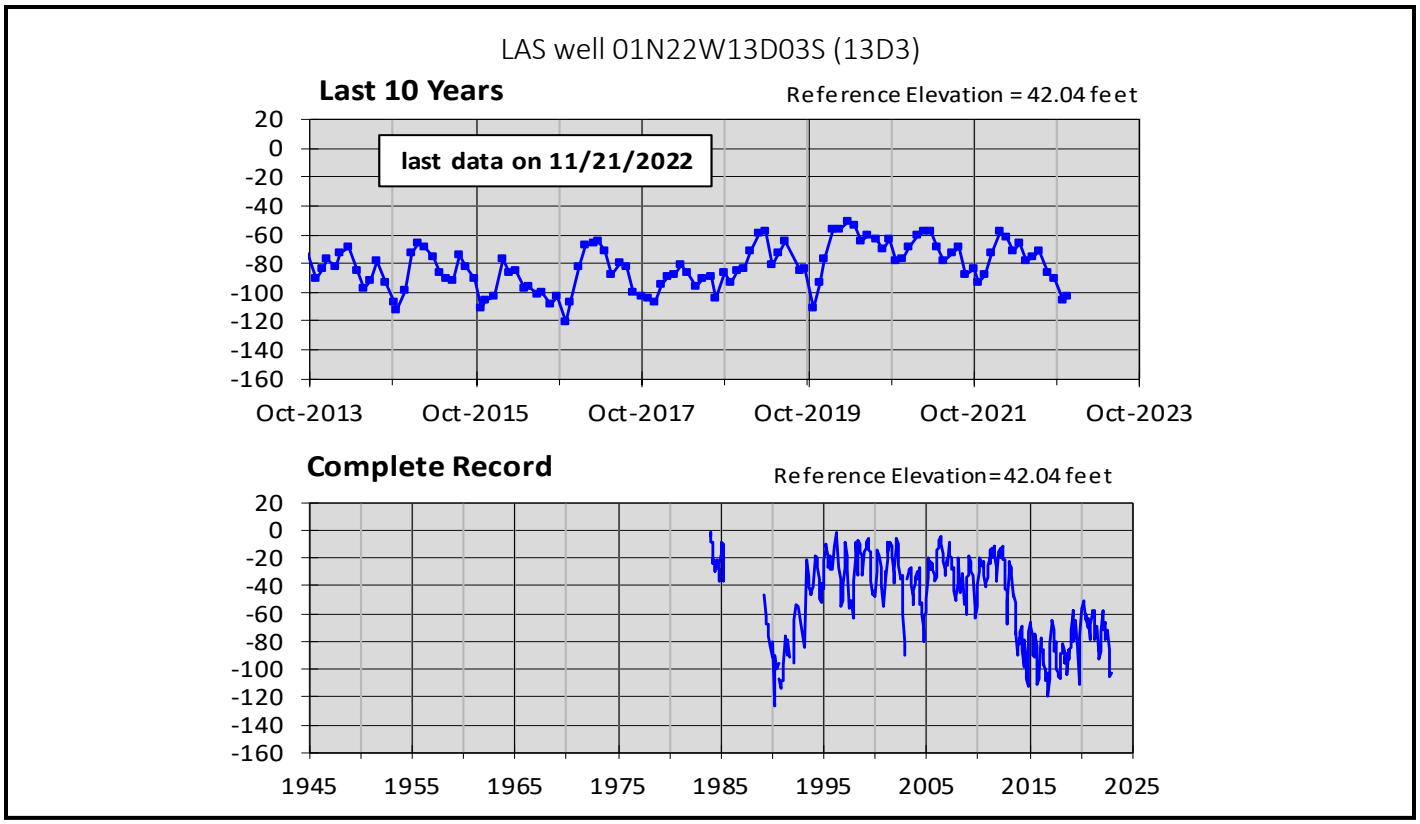
Well 02N22W22R02S (22R2)



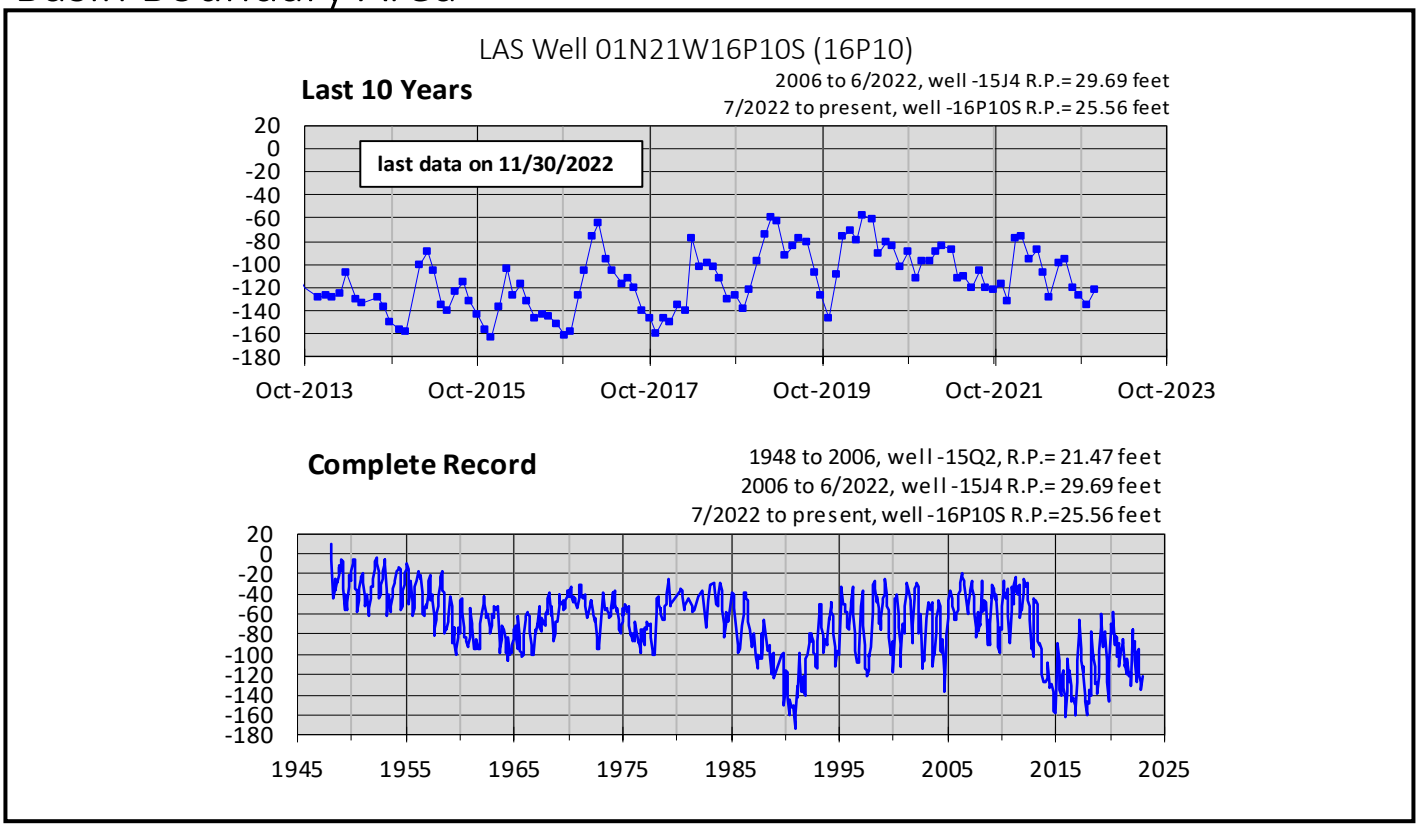


Groundwater Elevation Records – Oxnard Basin

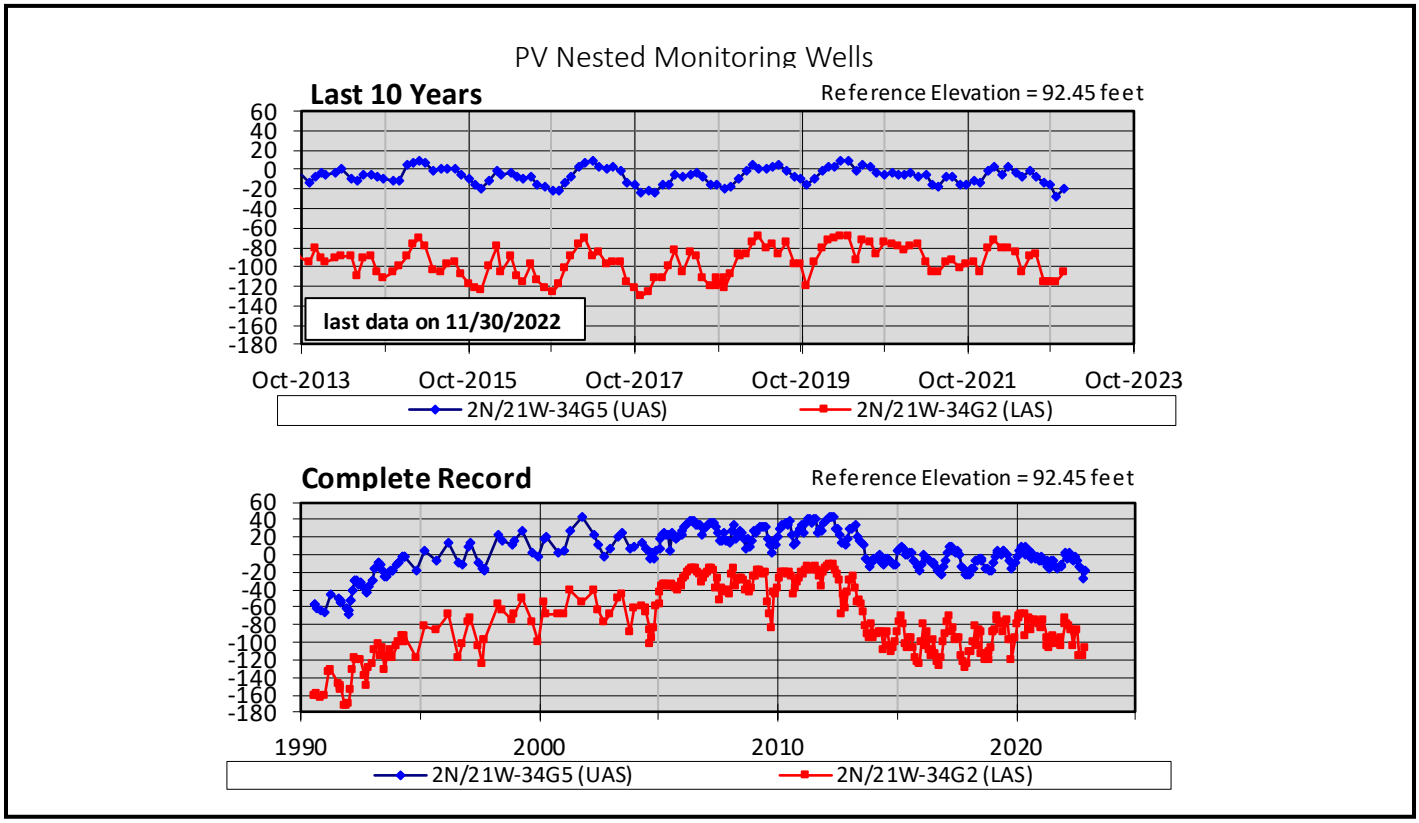




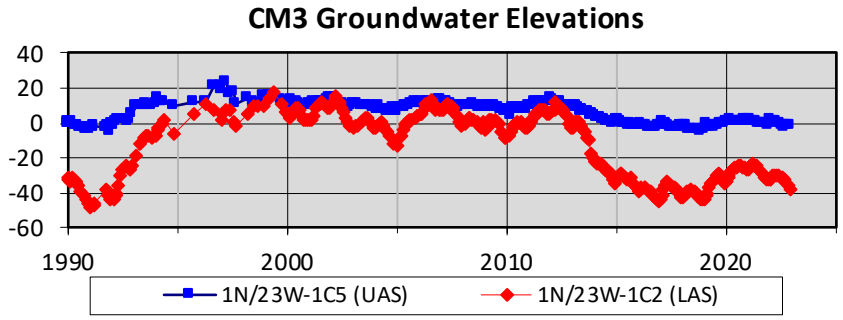
Groundwater Elevation Records – eastern Oxnard/Pleasant Valley Basin Boundary Area

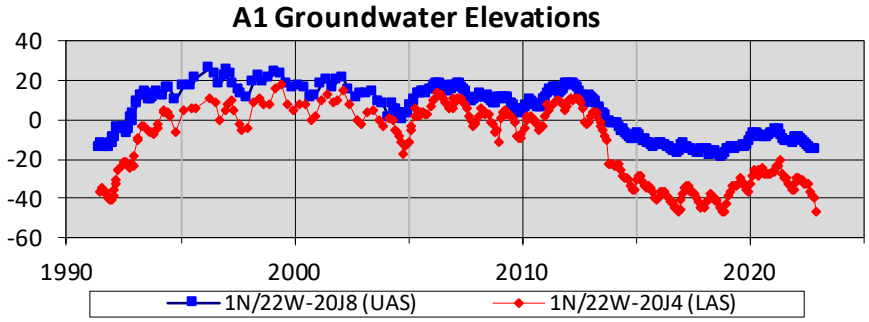


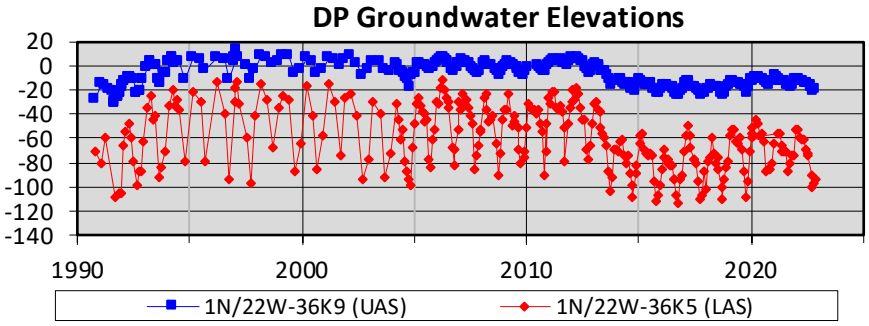
Groundwater Elevation Records – Pleasant Valley Basin

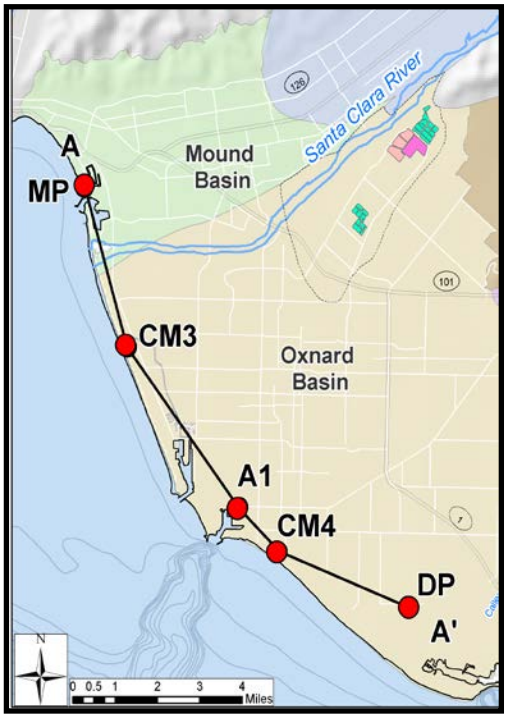


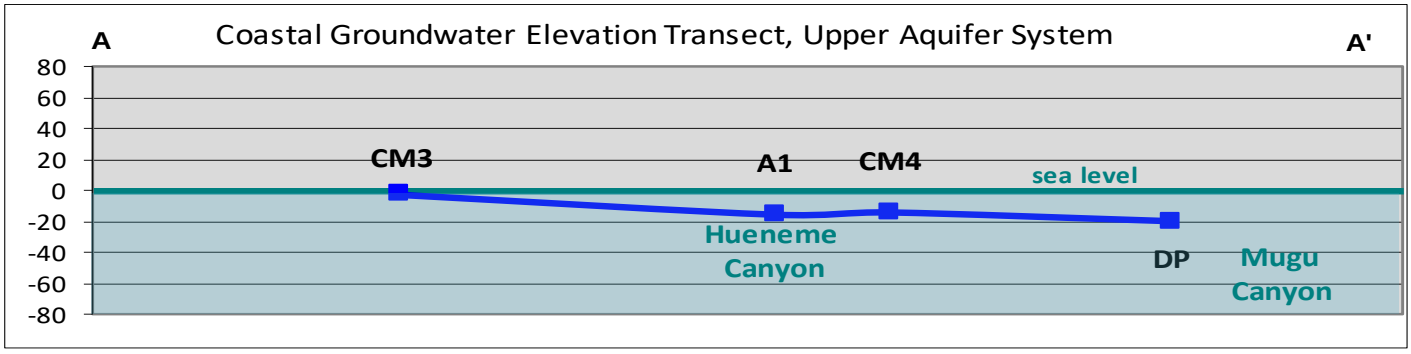
Groundwater Elevation Records – Coastal Nested Monitoring Wells

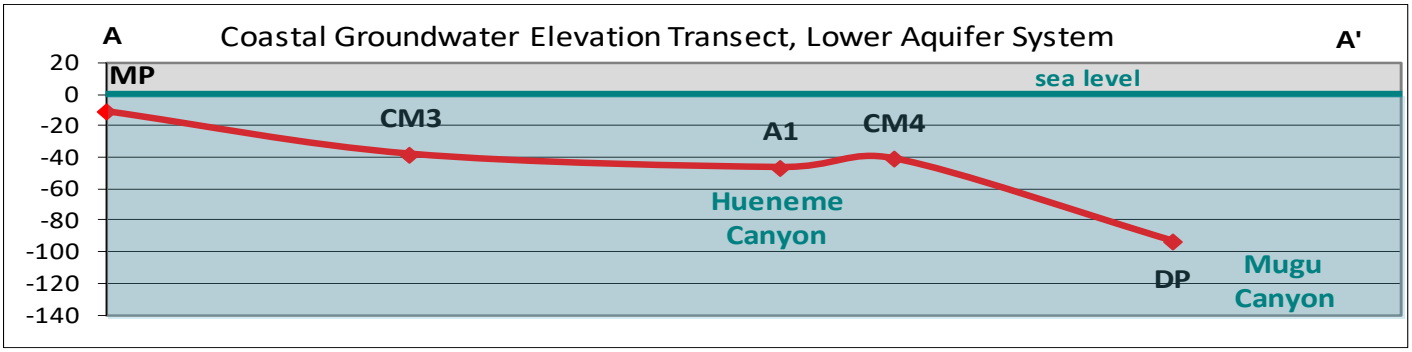












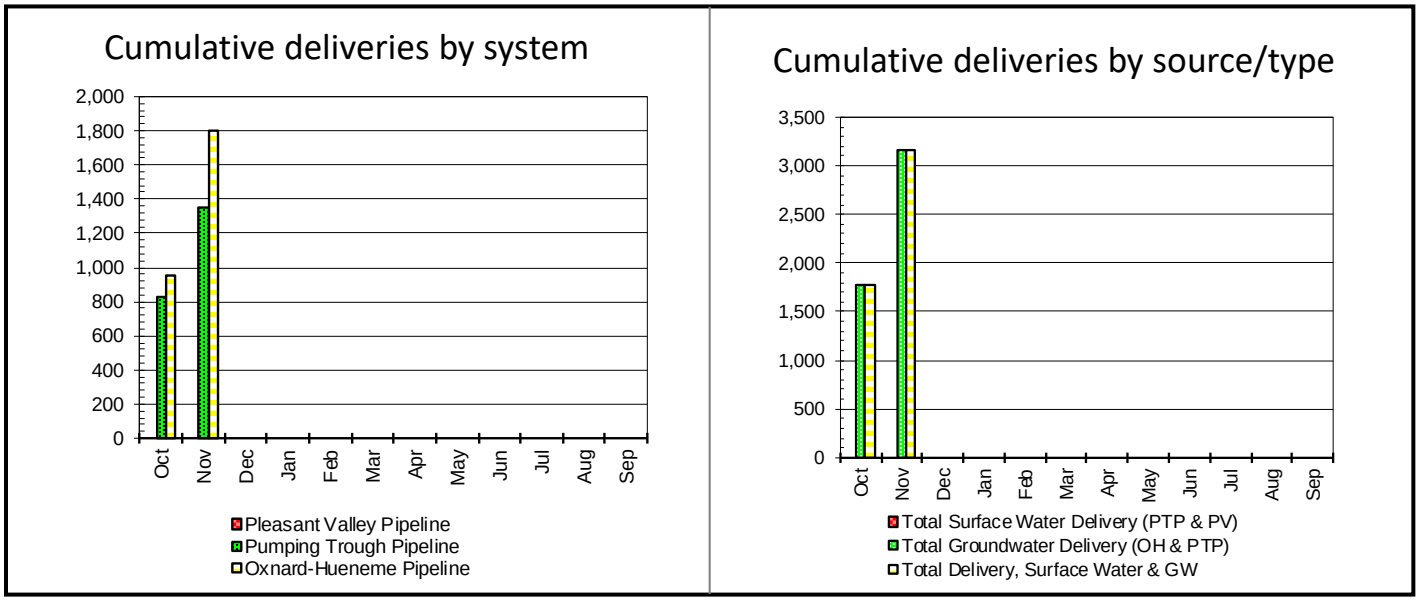
Monthly Water Deliveries, acre-feet (Water Year 2022/23)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	0.0	0.0										
PV Pipeline (saticoy well field)	0.0	0.0										
Total to Pleasant Valley Pipeline	0.0	0.0										
Saticoy Well Field	0.0	0.0										
PTP (surface water)	0.0	0.0										
PTP (groundwater) *	823.4	532.5										
PTP (Saticoy well field)	0.0	0.0										
Total PTP	823.4	532.5										
O-H Pipeline (groundwater)	952.3	850.2										
Total Surface Water Delivery (PTP & PV)	0.0	0.0										
Total Groundwater Delivery (OH & PTP)	1,775.7	1,382.7										
Total Delivery, Surface Water & GW	1,775.7	1,382.7										

*Includes OH-12/13: 116.5 AF in Oct.; 32.05 AF in Nov.

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										
PV Pipeline (saticoy well field)	0.0	0.0										
Total to Pleasant Valley Pipeline	0.0	0.0										
Saticoy Well Field	0.0	0.0										
PTP (surface water)	0.0	0.0										
PTP (groundwater) *	823.4	1,355.9										
PTP (Saticoy well field)	0.0	0.0										
Total PTP	823.4	1,355.9										
O-H Pipeline (groundwater)	952.3	1,802.5										
Total Surface Water Delivery (PTP & PV)	0.0	0.0										
Total Groundwater Delivery (OH & PTP)	1,775.7	3,158.4										
Total Delivery, Surface Water & GW	1,775.7	3,158.4										

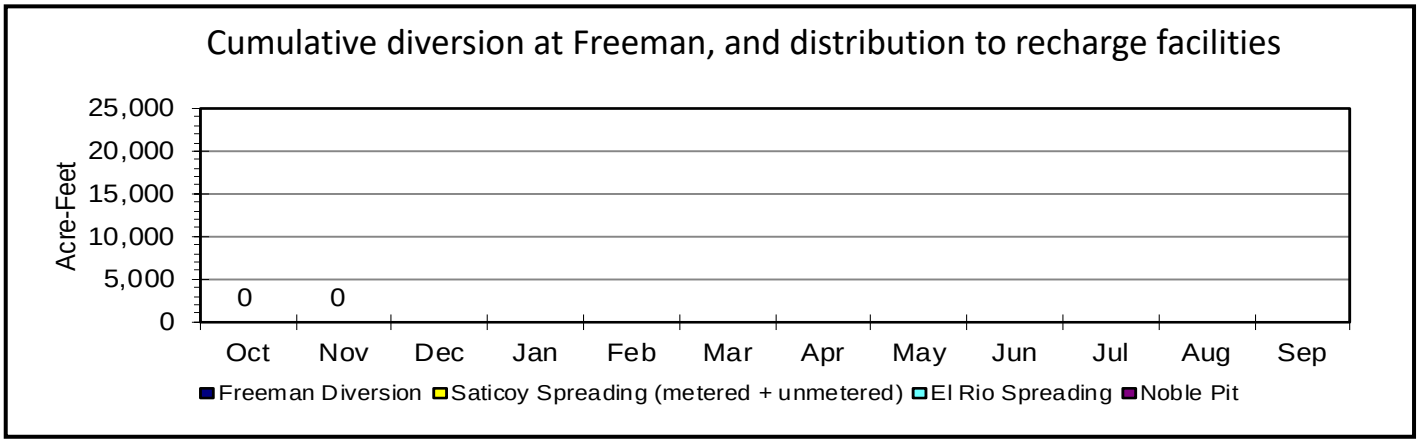


Monthly diversion and recharge totals by facility, 2022/23, in acre-feet

Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble Pit	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

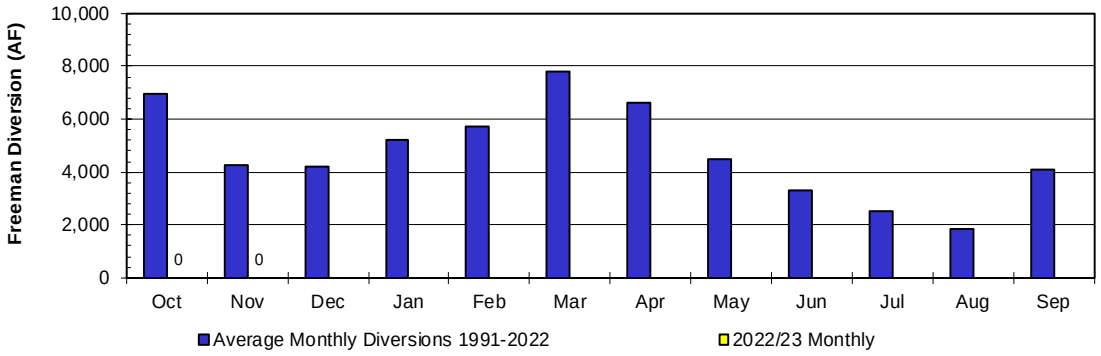
Cumulative diversion and recharge totals by facility, 2022/23, in acre-feet

Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble Pit	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec						
Jan						
Feb						
Mar						
Apr						
May						
Jun						
Jul						
Aug						
Sep						

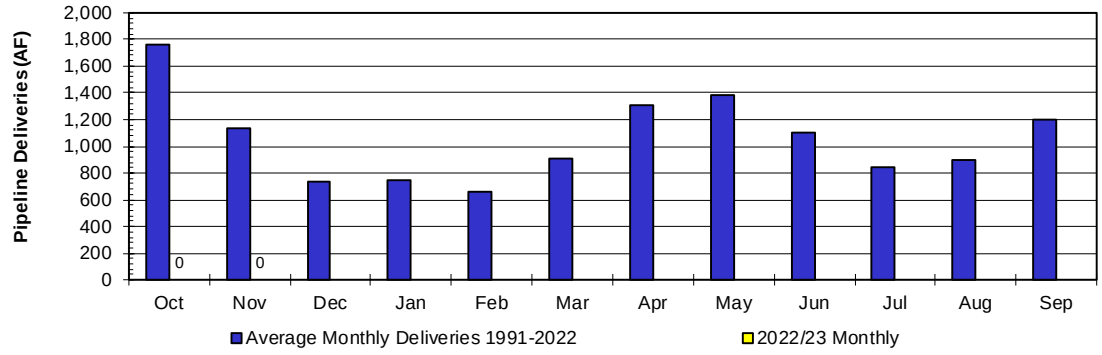


Cumulative diversions to Piru Spreading Grounds, 2022/23 = 0 AF

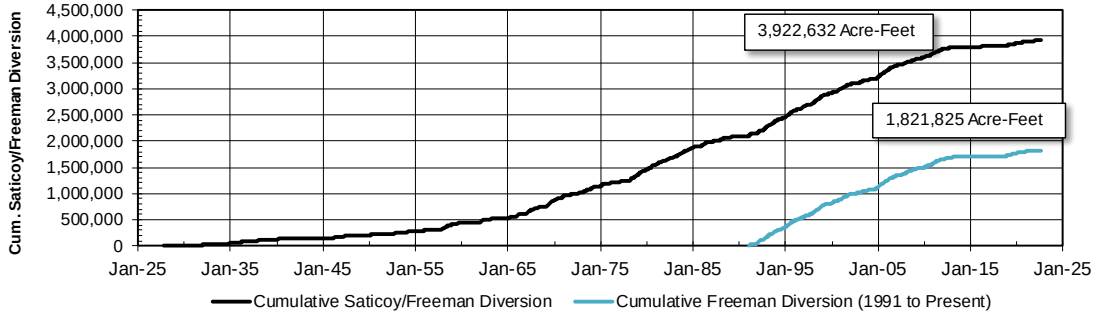
Monthly 2022/23 diversion at Freeman, compared to average monthly diversions (1991-2021)



Monthly 2022/23 pipeline deliveries (surface water deliveries), compared to average monthly pipeline deliveries (1991-2021)

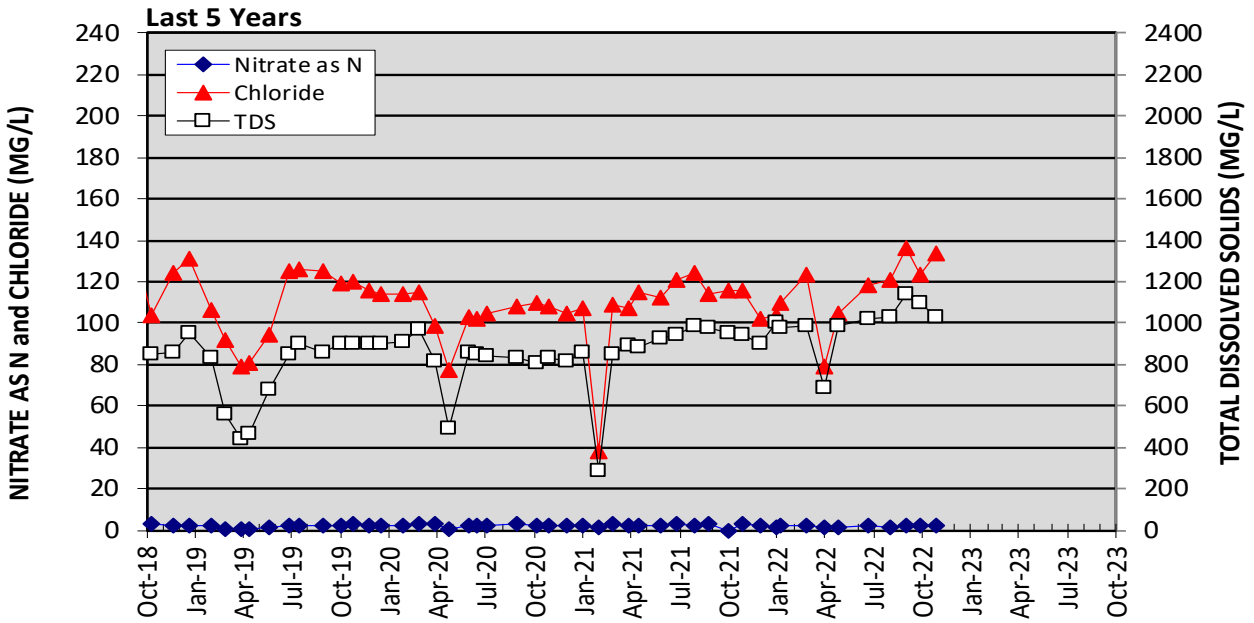


Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

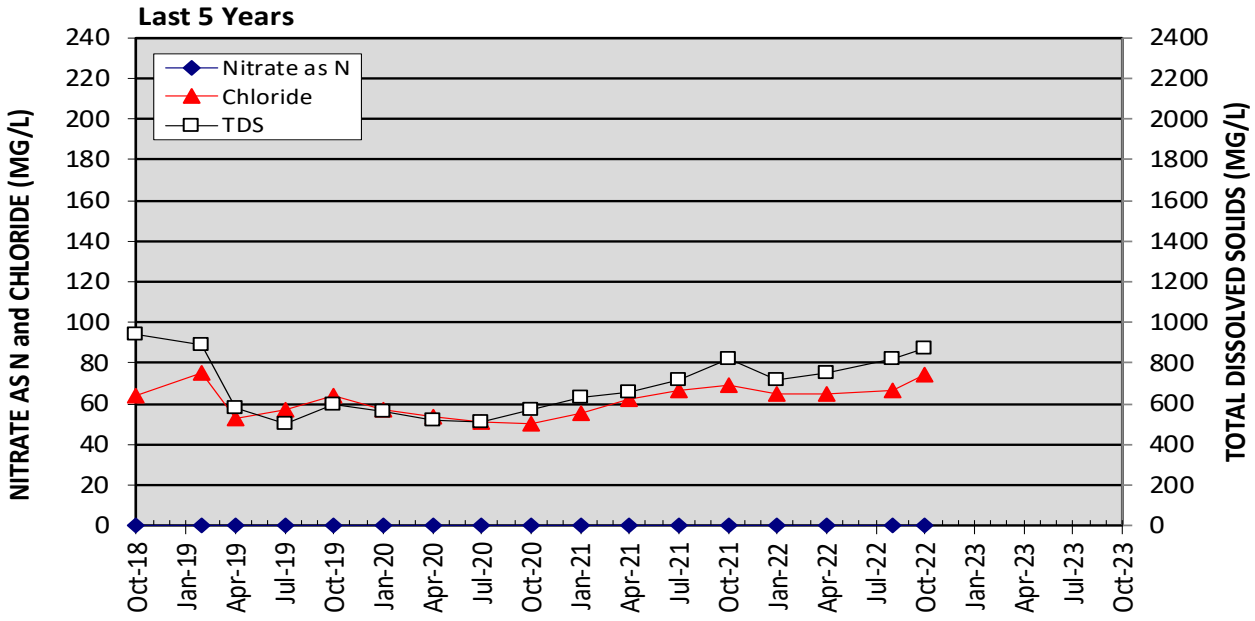


Water Quality

Santa Clara River water quality near Los Angeles/Ventura County line

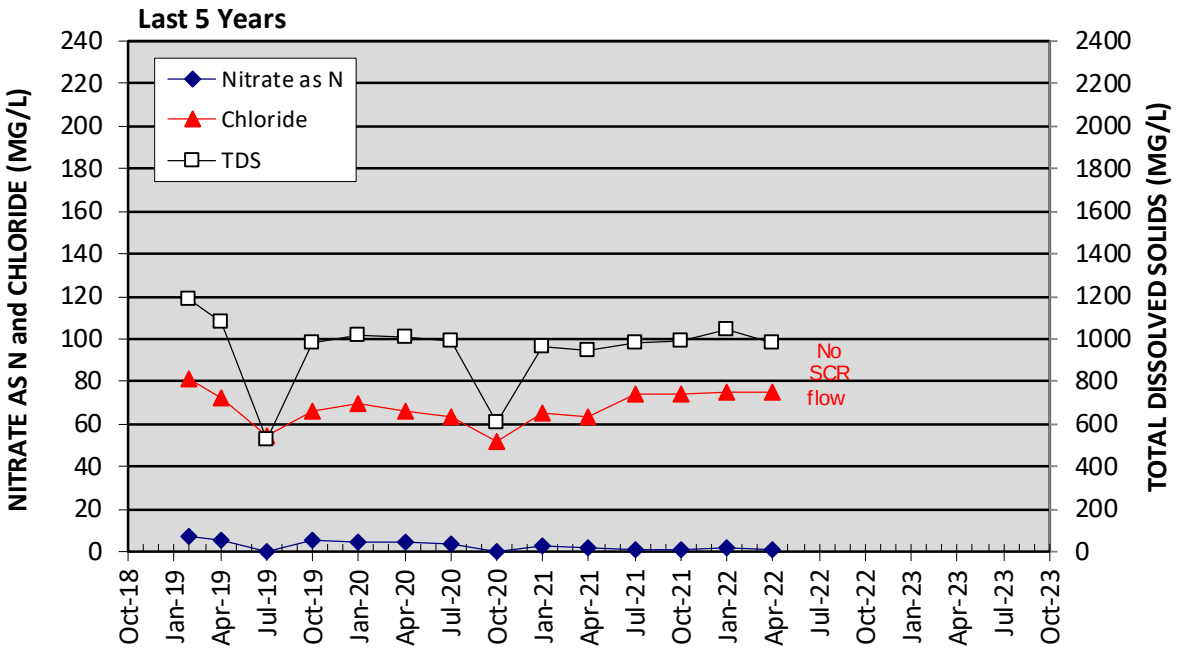


Piru Creek water quality below Santa Felicia Dam

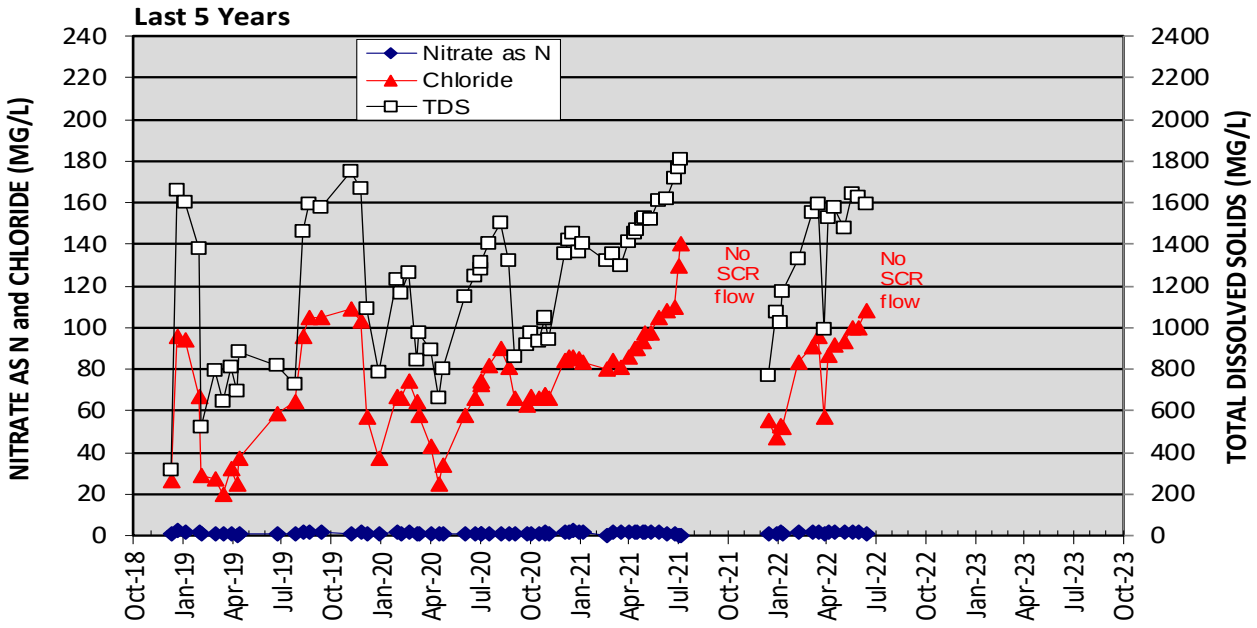


Water Quality

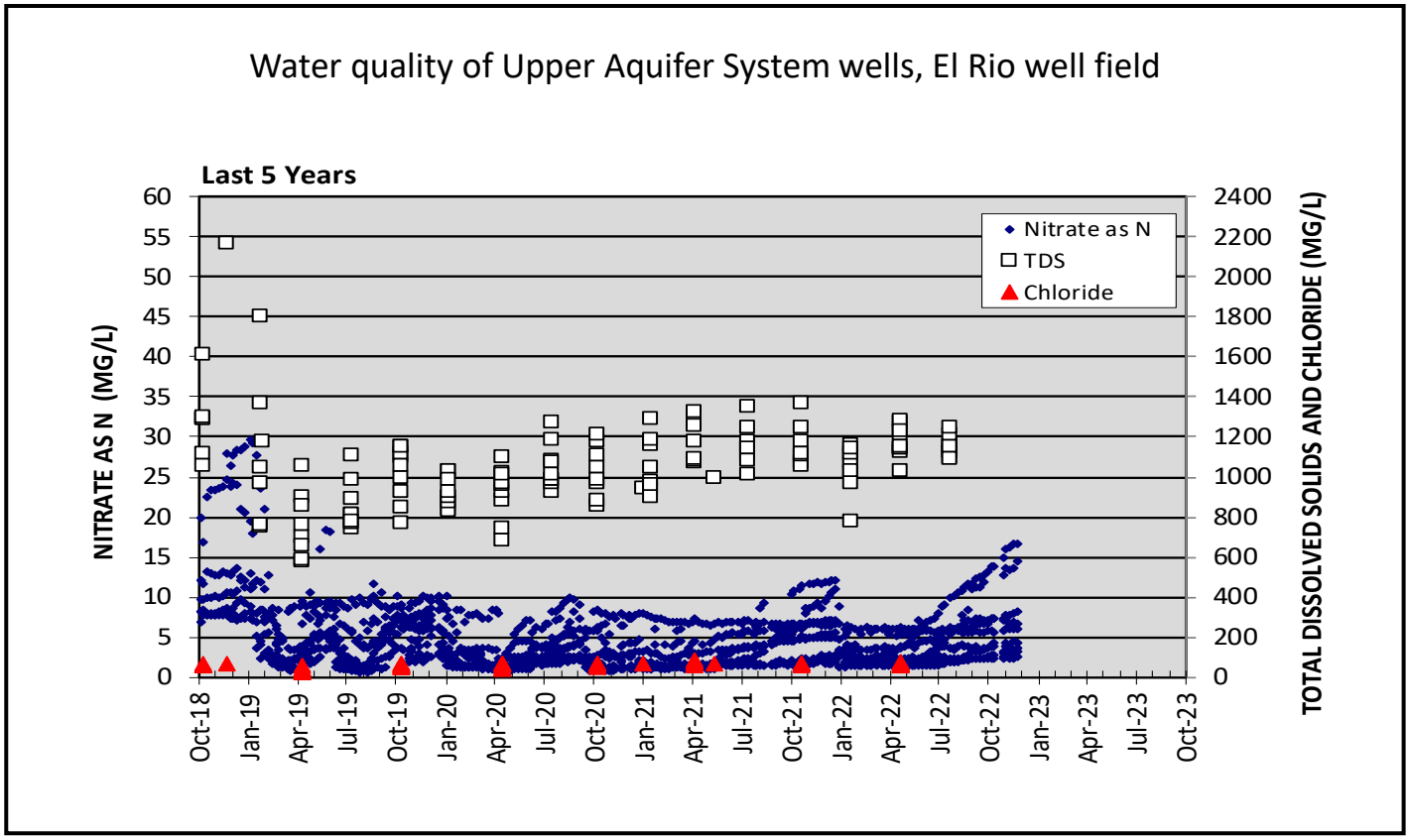
Santa Clara River water quality near Fillmore Fish Hatchery

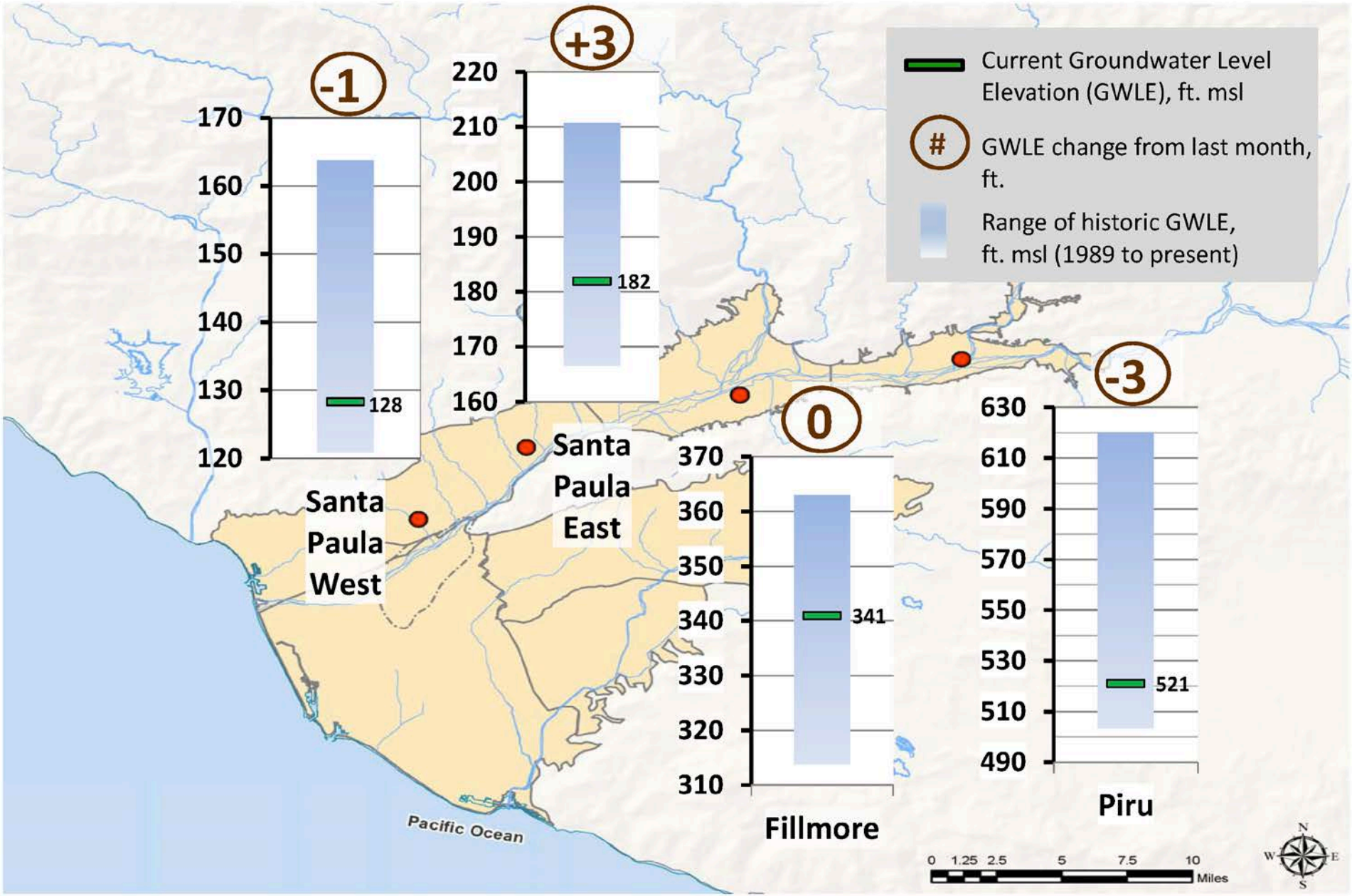


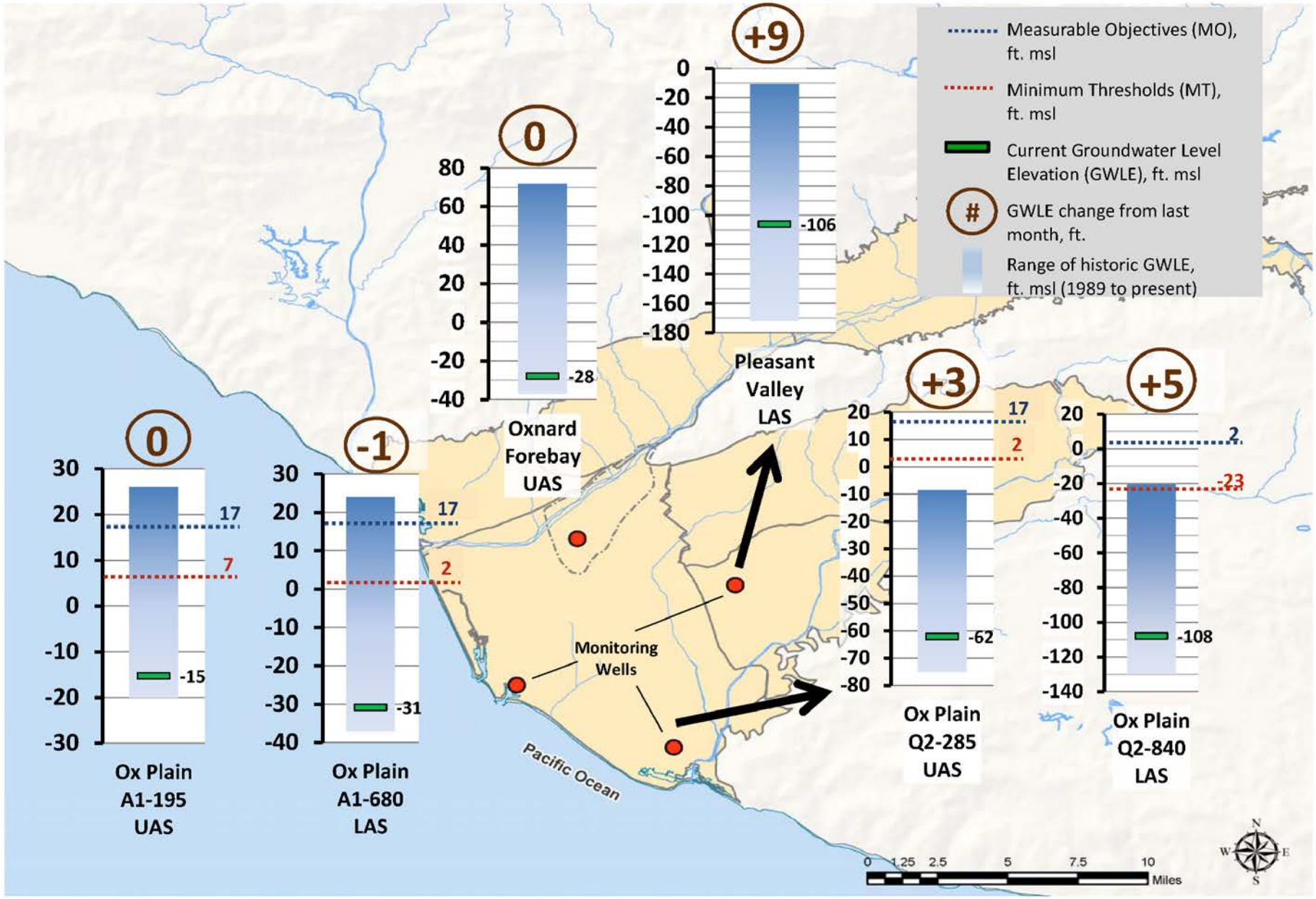
Santa Clara River water quality at Freeman Diversion

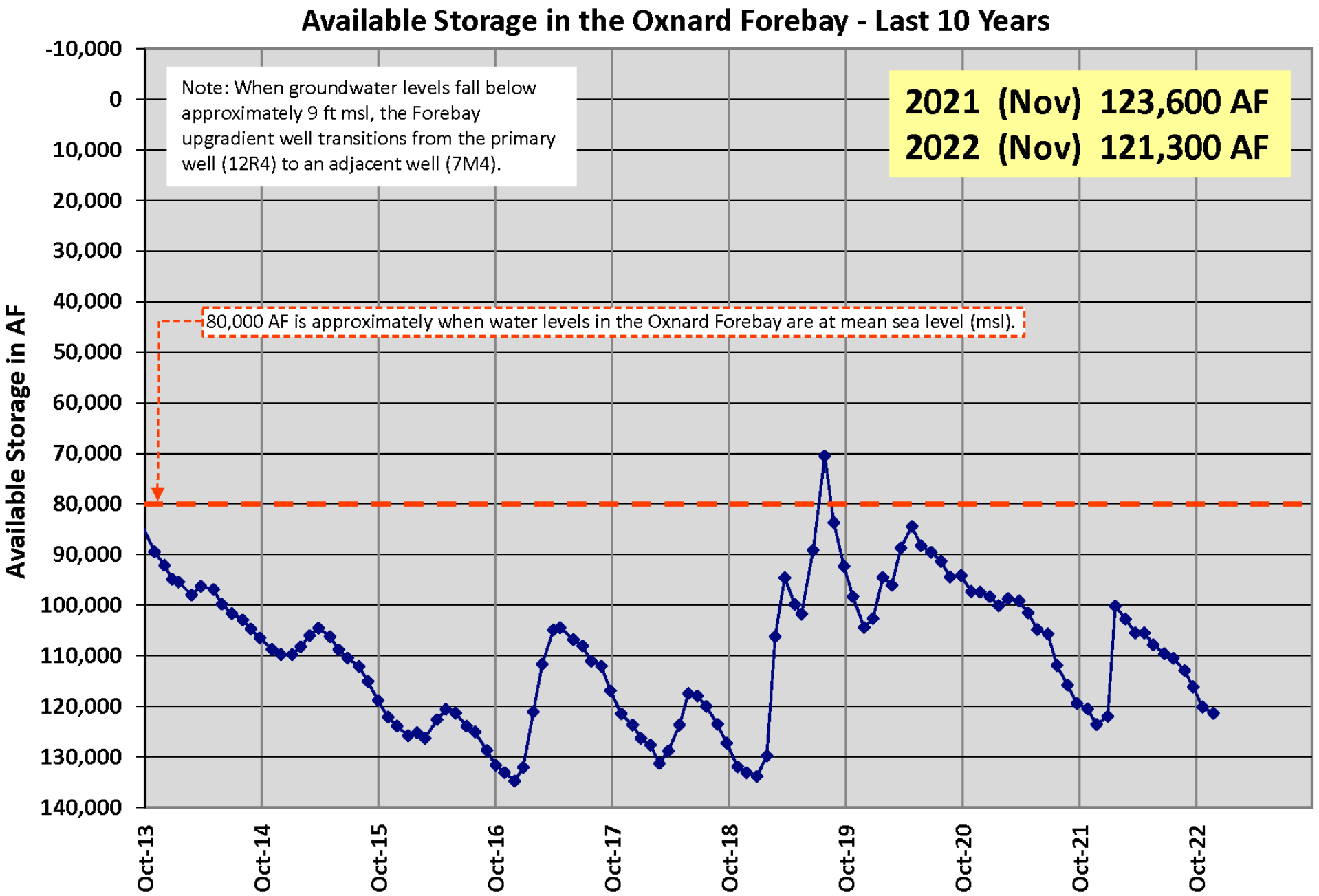


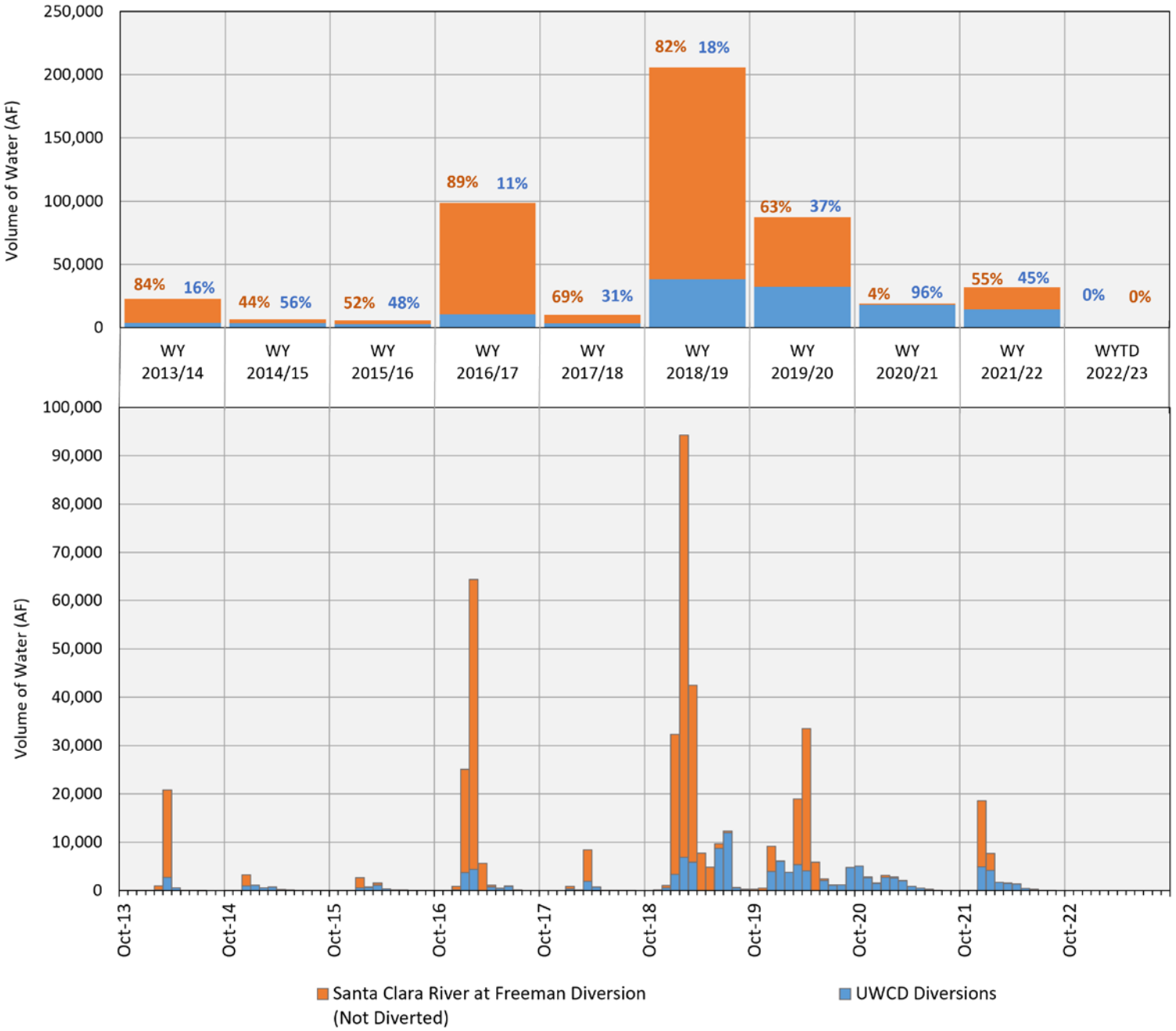
Water Quality




Current Groundwater Level Elevation (GWLE), ft. msl
#
GWLE change from last month, ft.
Range of historic GWLE, ft. msl (1989 to present)
-1
170
160
150
140
130
120
128
+3
220
210
200
190
180
170
160
182
0
370
360
350
340
330
320
310
341
Fillmore
-3
630
610
590
570
550
530
510
490
521
Piru
Santa Paula West
Santa Paula East
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)
+9
-106
Pleasant Valley LAS
0
-28
Oxnard Forebay UAS
+3
17
2
-62
Ox Plain Q2-285 UAS
+5
2
-23
-108
Ox Plain Q2-840 LAS
0
17
7
-15
Ox Plain A1-195 UAS
-1
17
2
-31
Ox Plain A1-680 LAS
Monitoring Wells
Pacific Ocean
0 1.25 2.5 5 7.5 10
Miles
N
W
E
S


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).
2021 (Nov) 123,600 AF
2022 (Nov) 121,300 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



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