

FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
LAS POSAS BASINS
2015

Goal: Maintain chloride and TDS concentrations suitable for irrigation of salt-sensitive crops, particularly avocados and berries. BMOs for SLP are equal to the concentrations observed in surface water in Arroyo Las Posas.

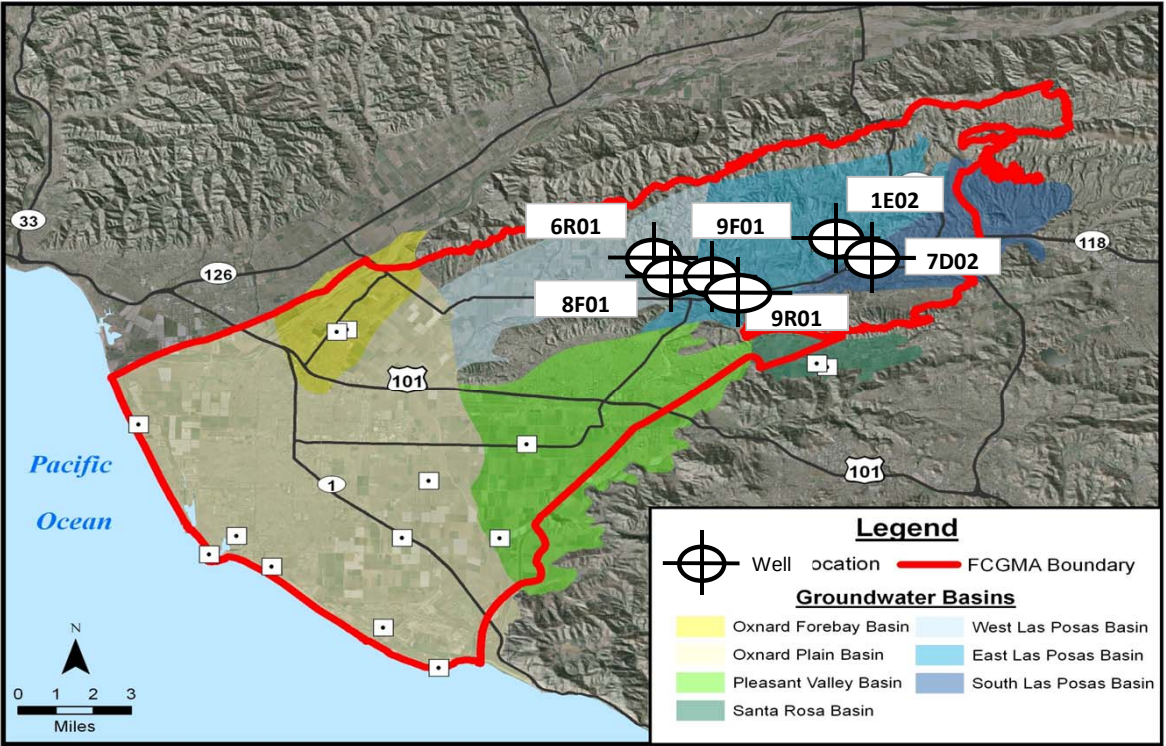
BMOs: Chloride Concentration: WLP & ELP: <100 mg/L; SLP: <160 mg/L.

TDS Concentration: ELP: <500 mg/L; WLP: <600 mg/L; and SLP: <1,500 mg/L.

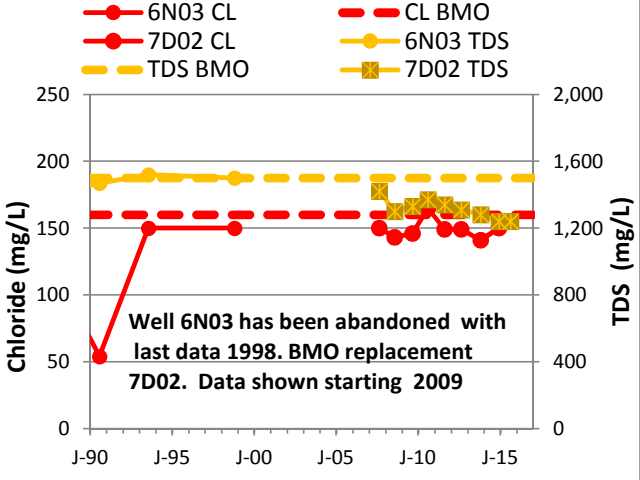
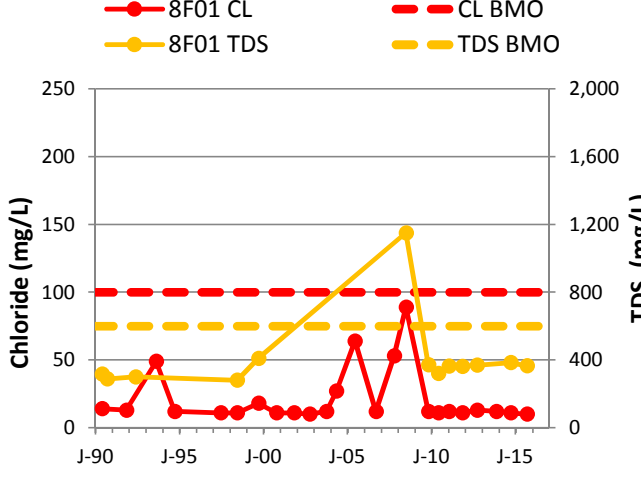
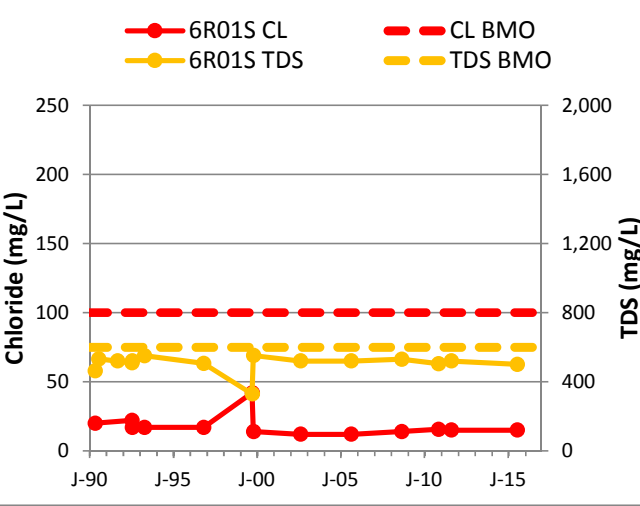
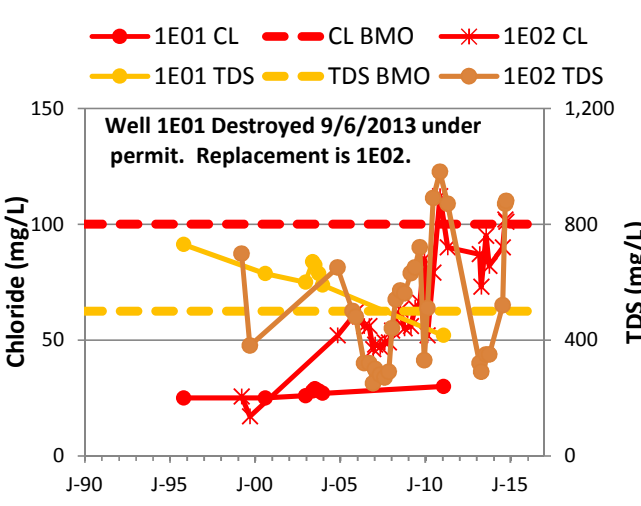
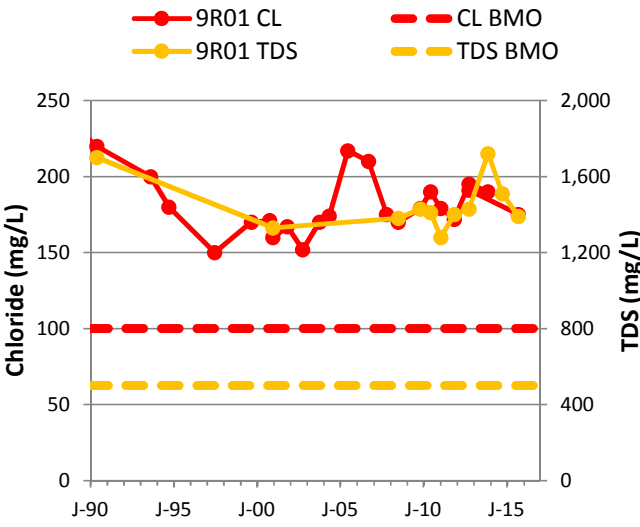
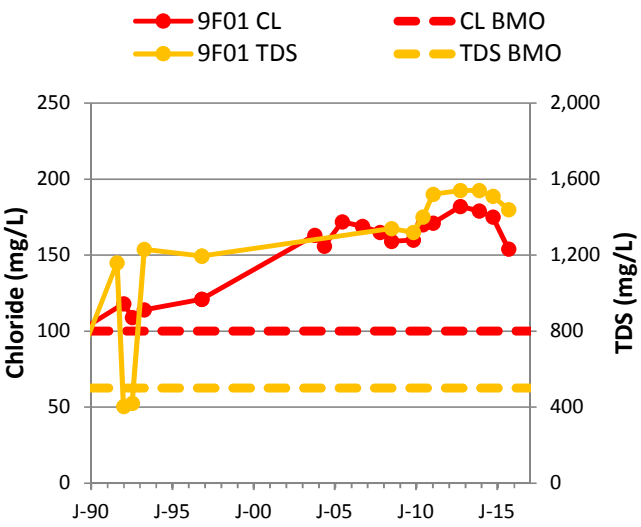
Status Summary: BMO monitoring locations 1E01 and 6N03 have been replaced with 1E02 and 7D02 respectively. No data are available for BMO monitoring location 1E02 for 2015. In the ELP Basin the chloride and TDS BMOs are not being met. In the WLP and SLP basins, both BMOs are being met at the monitoring stations. Generally, the five-year trends in the Las Posas basins is chloride and TDS are staying within a limited range of fluctuation.

Status Summary Table

State Well Number (name)	Depth (ft)	Chloride (mg/L)		TDS (mg/L)		5-yr Trend	
		BMO	2015 Avg	BMO	2015 Avg	Chloride	TDS
02N20W09F01S (ELP)	906-1,290	100	154	<500	1,440	↓	↑
02N20W09R01S (ELP)	456-724	100	175	<500	1,390	→	→
02N20W01E02S (ELP) Replacement	680-1,000	<100	No Data	<500	No Data	→	→
02N20W06R01S (WLP)	1,090-1,512	100	15	<600	500	→	→
02N20W08F01S (WLP)	752-1,406	100	10	<600	365	→	→
02N19W07D02S (SLP) Replacement	98-170	160	155	<1500	1,240	↑	↓



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
LAS POSAS BASINS
2015



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
ARROYO SANTA ROSA BASIN
2015

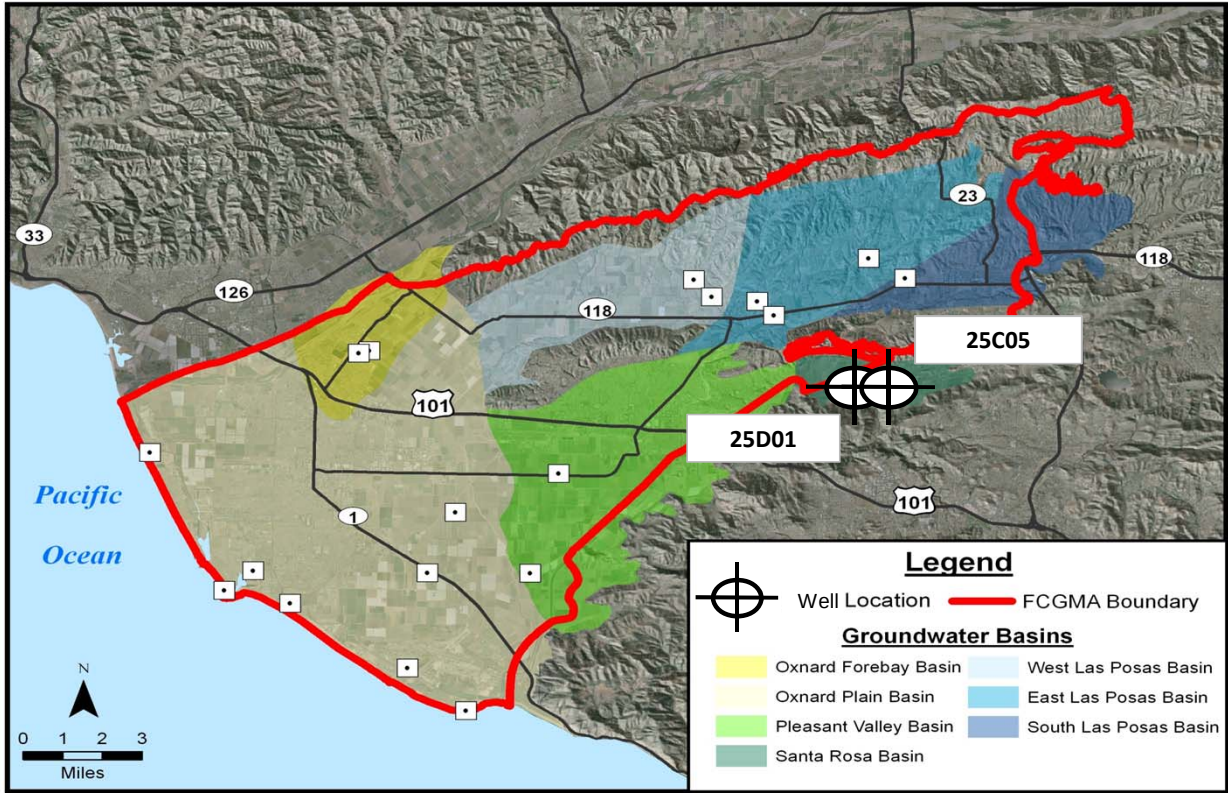
Goal: Meet LARWQCB Basin Plan Objectives for nitrate and chloride.

BMOs: Nitrate Concentration: <45 mg/L-NO₃ (LARWQCB Basin Plan Objective & State of CA MCL)
Chloride Concentration: <150 mg/L (LARWQCB Basin Plan Objective)

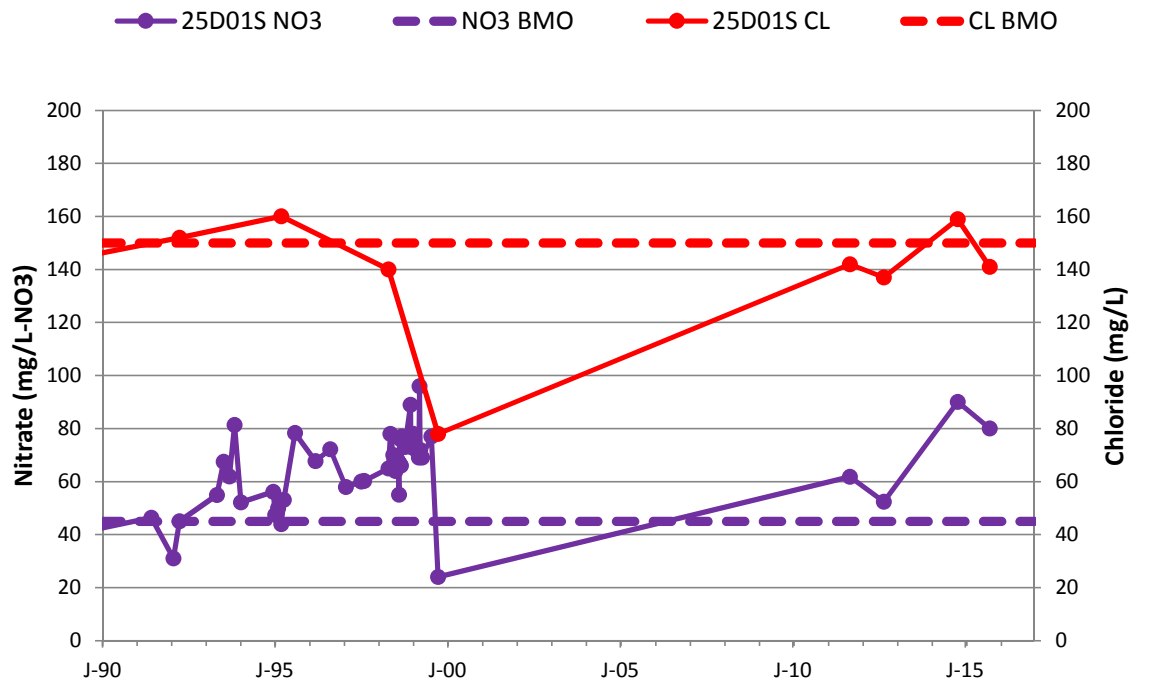
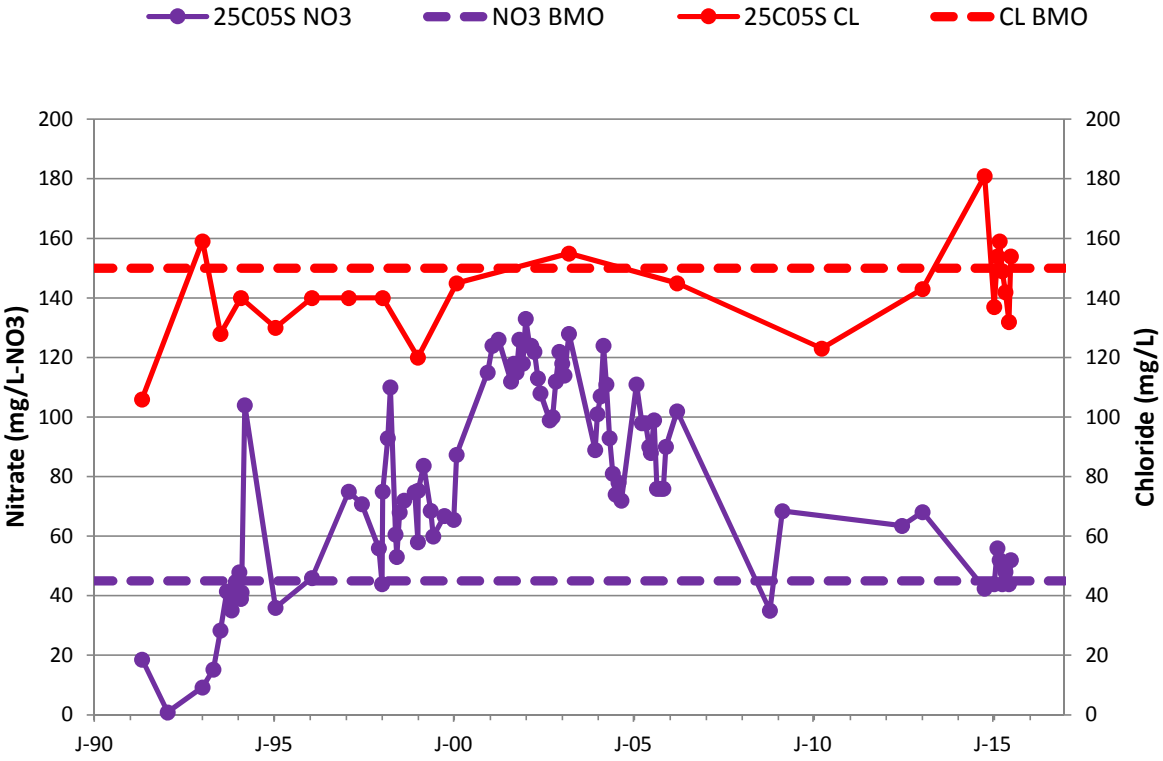
Status Summary: Analytical results indicate that the nitrate concentration exceeded the BMO of 45 mg/L by 4 mg/L and 30 mg/L. The chloride concentrations were below the BMO (141 mg/L and 147 mg/L vs. 150 mg/L). Over the past 5 years: nitrate concentrations have declined at 25C05 and risen at 25D01; and chloride concentrations have increased at 25C05 and fluctuated but the trend remained flat at 25D01.

Status Summary Table

State Well Number (name)	Depth (ft)	Nitrate (mg/L)		Chloride (mg/L)		5-yr Trend *	
		BMO	2015 Avg	BMO	2015 Avg	Nitrate	Chloride
02N20W25C05S	160-260	45	49	<150	147	↓	↑
02N20W25D01S	Unknown	45	80	<150	141	↑	→



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
ARROYO SANTA ROSA BASIN
2015



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN FOREBAY
2015

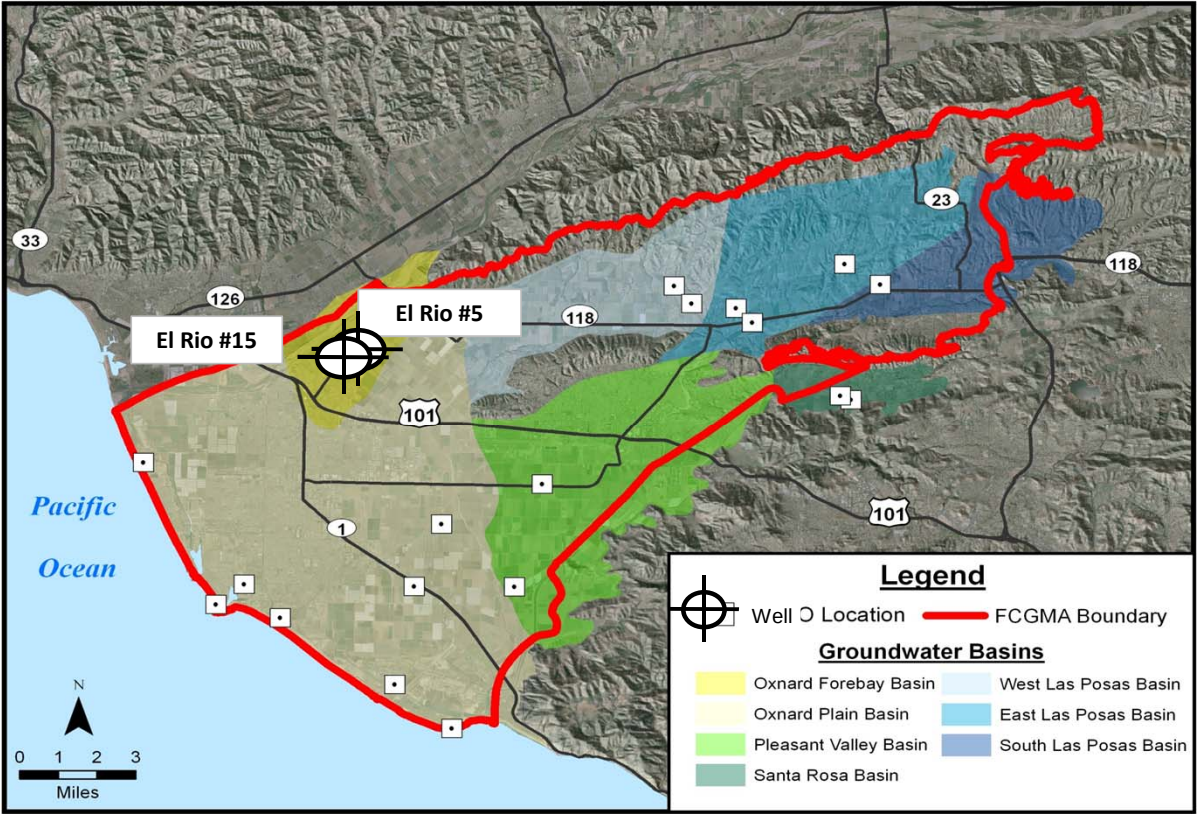
Goal: Protect water quality at public drinking water wells (nitrate and TDS) and irrigation suitability (TDS). (Note TDS = total dissolved solids)

BMOs: Nitrate Concentration: <22.5 mg/L-NO₃ (50% of State of California MCL)
TDS Concentration: <1,200 mg/L (LARWQCB Basin Plan Objective)

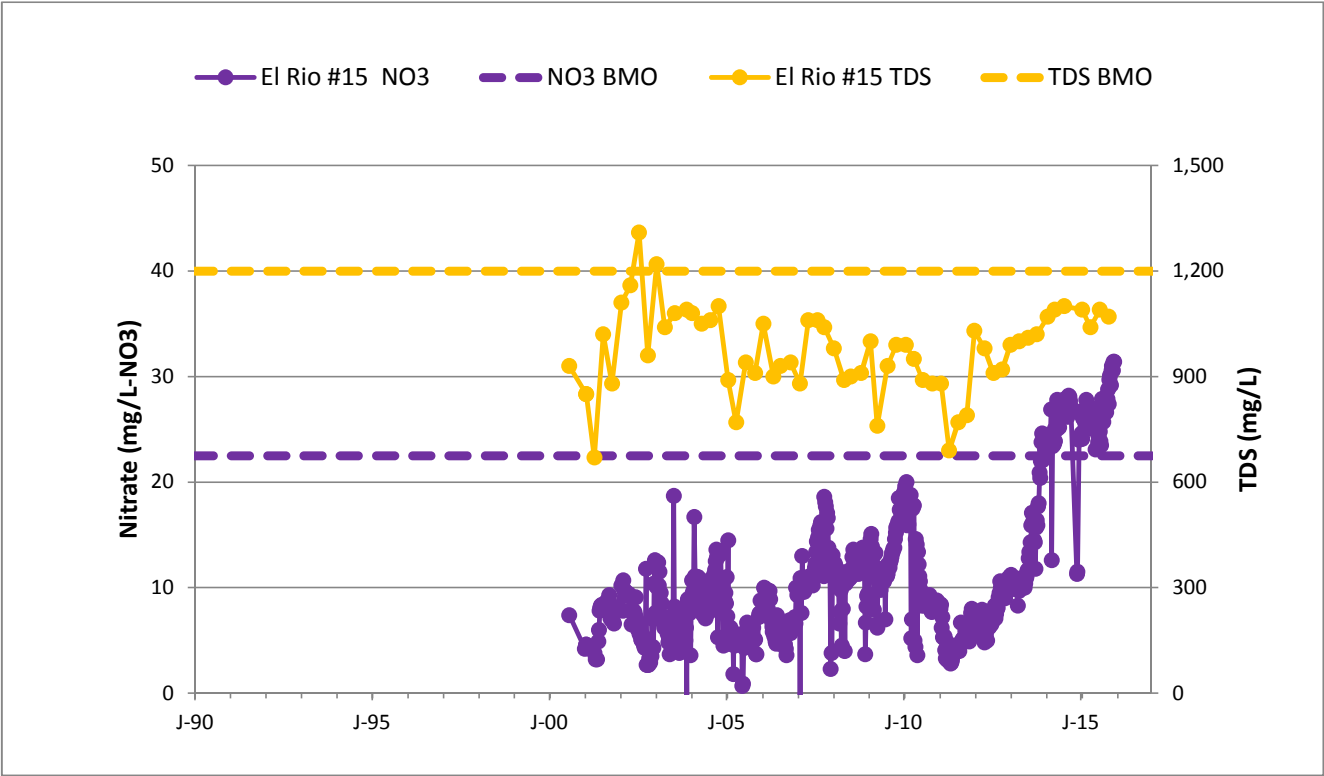
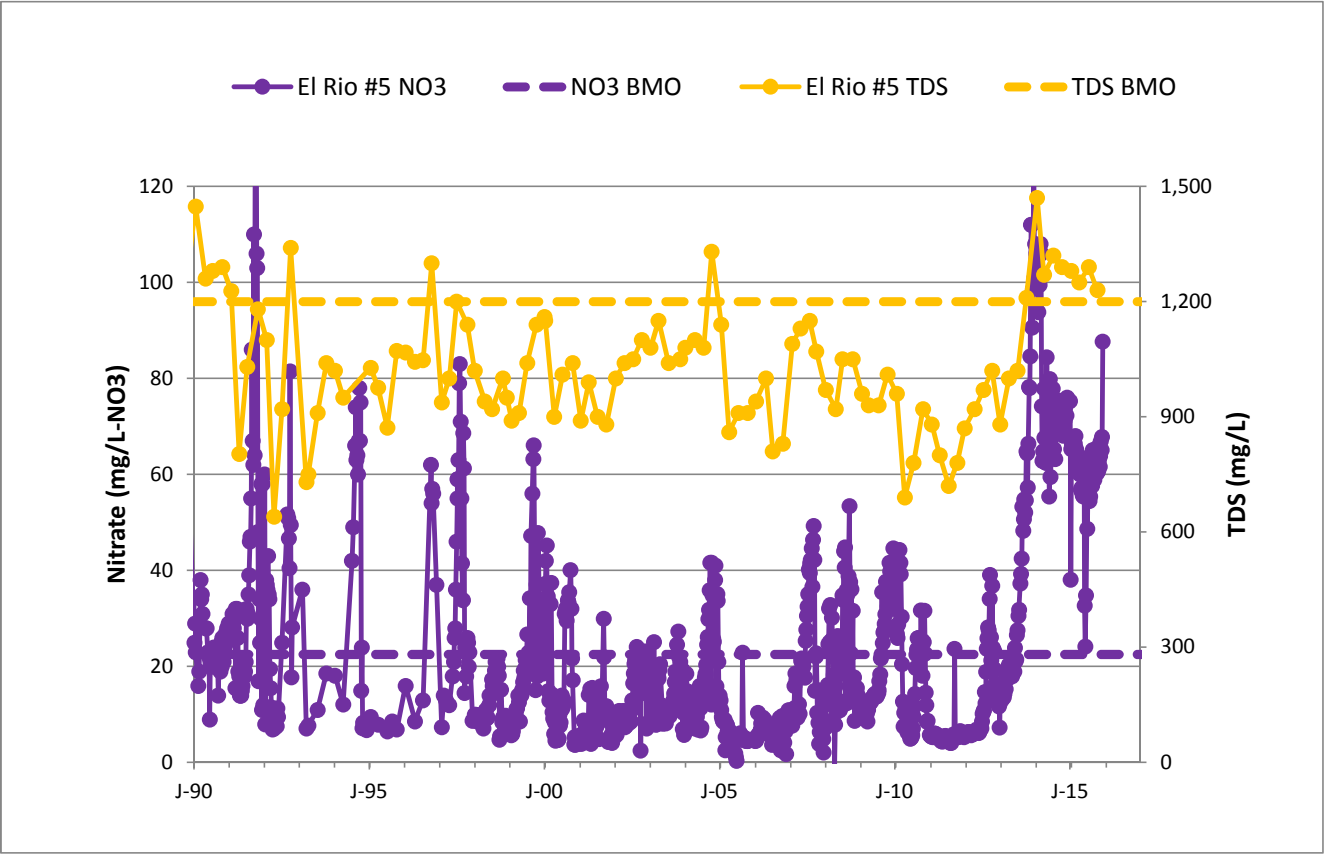
Status Summary: In 2015, average nitrate concentrations were above the BMO at well El Rio #5 and at well El Rio #15. Average TDS concentrations were above the BMO at well El Rio #5 yet below the BMO at well El Rio #15. Average nitrate concentrations are above the BMOs in both wells. The general five-year trend at both monitoring locations is increasing nitrate and TDS concentrations.

Status Summary Table

State Well Number (name)	Depth (ft)	Nitrate (mg/L)		TDS (mg/L)		5-yr Trend	
		BMO	2015 Avg	BMO	2015 Avg	Nitrate	TDS
02N22W23B02S (El Rio #5)	135-277	22.5	60	<1200	1,263	↑	↑
02N22W23C05S (El Rio #15)	140-310	22.5	27	<1200	1,073	↑	↑



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN FOREBAY
2015



San Juan Bautista Groundwater Basin

2015 Fall LAS Water Level Elevation (feet above/below MSL)

Legend

- 200 to 300+
- 140 to 200
- 120 to 140
- 100 to 120
- 80 to 100
- 60 to 80
- 40 to 60
- 20 to 40
- 0 to 20
- 20 to 0
- 40 to -20
- 60 to -40
- 80 to -60
- 100 to -80
- <-100

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Legend

- 2015 Fall LAS Water Level Elevation
- 2015 Fall LAS Wells With Water Level Elevation (feet)
- Groundwater Basin Boundaries - VCWPD
- Fault Inferred
- BMO Wells LAS
- FCGMA Boundary

DISCLAIMER: The information contained herein was created by the Ventura County Watershed Protection District for use by the Fox Canyon Groundwater Management Agency. This potentiometric surface map is an interpretation of the data that was available at the time that the map was prepared. No warranty is made as to the accuracy of the data shown and Ventura County Watershed Protection District and Fox Canyon Groundwater Management Agency expressly disclaim liability for any errors or omissions in the contents of these maps. Note - For nested wells contours reflect lowest water level elevation and there are multiple aquifers in the Lower Aquifer System.

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FCGMA Boundary

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Note - For nested wells contours reflect lowest water level elevation and there are multiple aquifers in the Lower Aquifer System.

FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - UPPER AQUIFER SYSTEM
2015

Goal: Prevent saline intrusion in the Oxnard and Mugu Aquifers. Primary source is seawater inflow via aquifer outcrops in submarine canyons near Port Hueneme and Pt. Mugu.

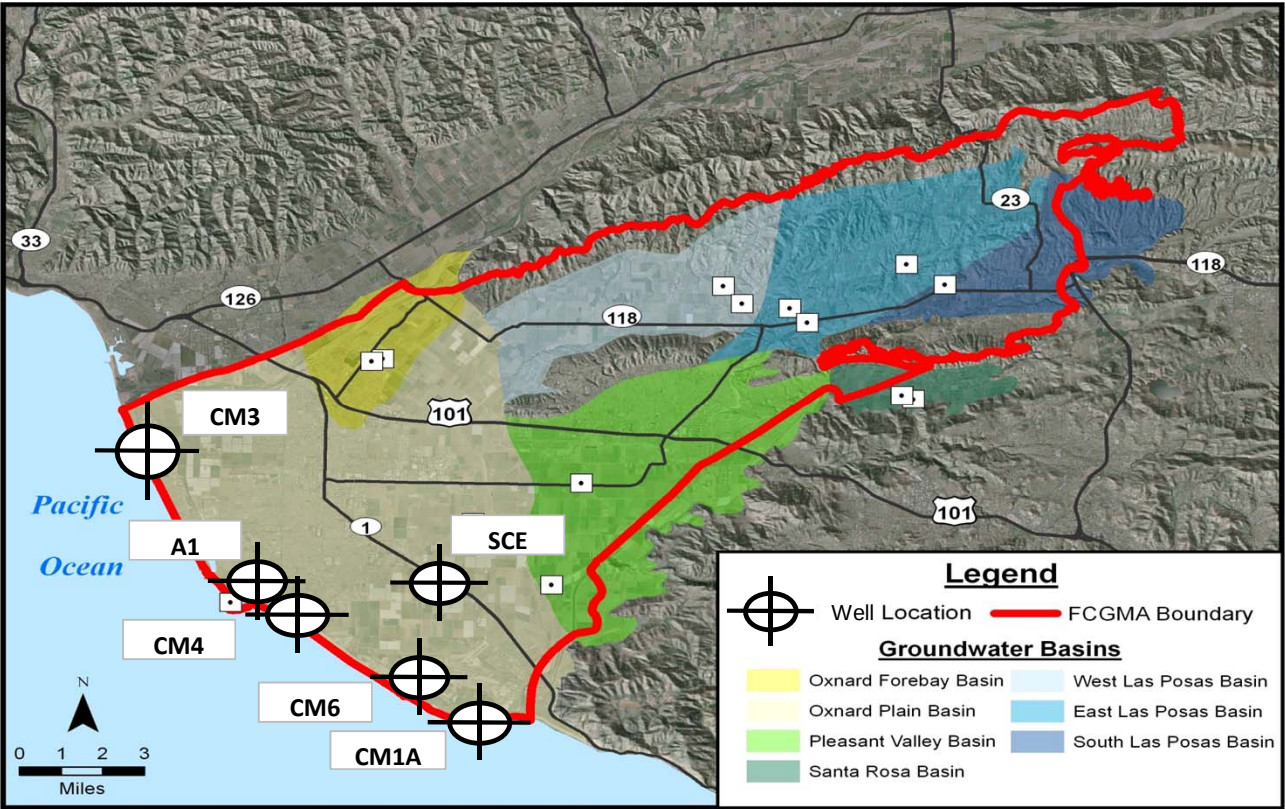
BMOs: Water Levels: Average groundwater elevations sufficient to maintain slight seaward groundwater gradient. Elevation varies with location.

Chloride Concentration: <150 mg/L Chloride (LARWQCB Basin Plan Objective).

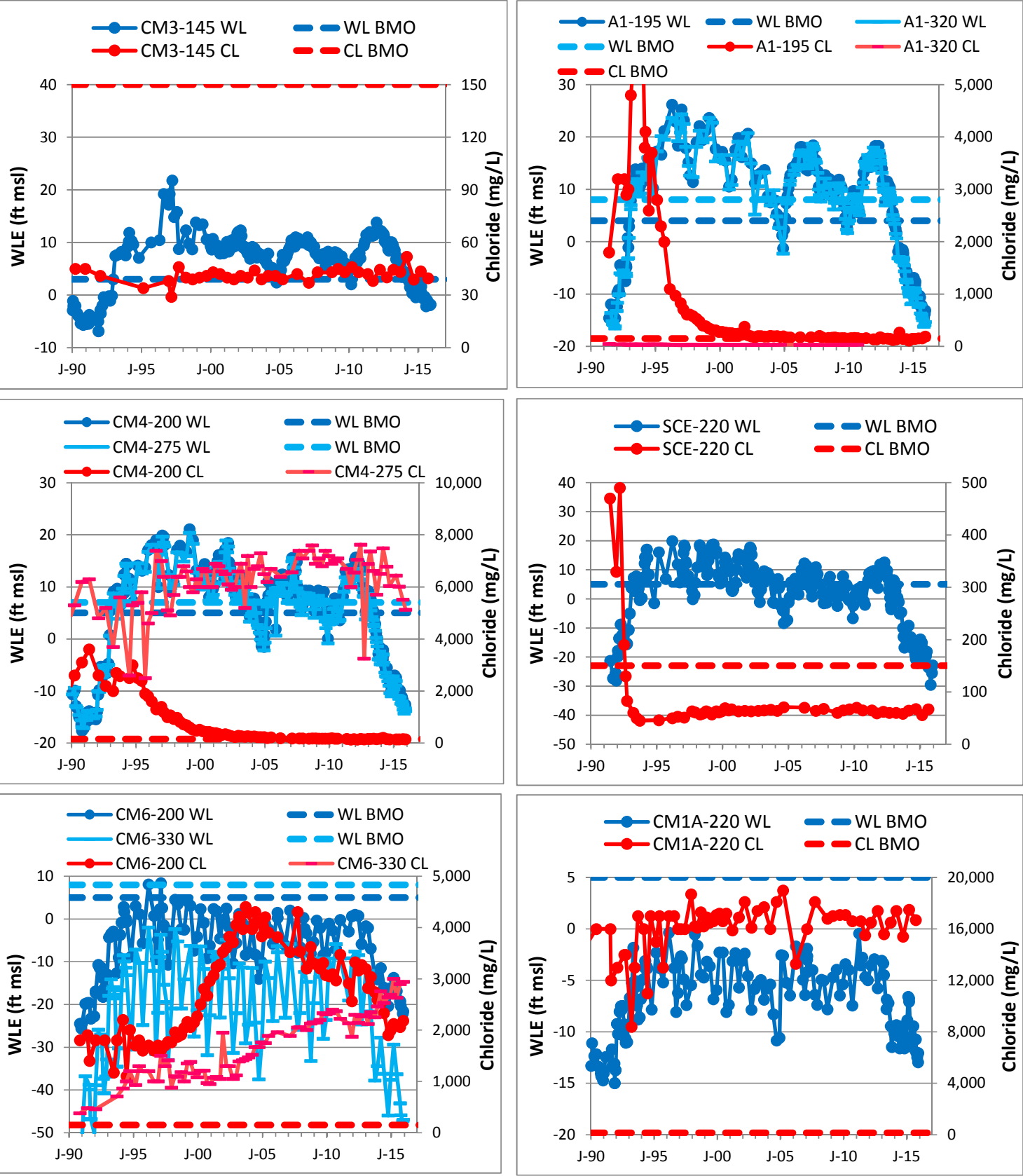
Status Summary: Water level BMOs were not met in 2015. A comparison of water levels indicates that water levels have declined at all nine monitoring locations over the past three years. Chloride BMOs were met at approximately 33% of the monitoring locations. Consistent with past results, chloride BMOs were not met near Port Hueneme (A1-195 and CM4) and Pt. Mugu (CM6 and CM1A).

Status Summary Table

State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2015 Avg	BMO	2015 Avg	Water Level	Chloride
01N23W01C05S (CM3-145)	120-145	3	0	<150	42	↓	→
01N22W20J08S (A1-195)	155-195	4	-11	<150	165	↓	→
01N22W20J07S (A1-320)	280-320	8	-13	<150	35	↓	→
01N22W28G05S (CM4-200)	180-200	5	-11	<150	150	↓	→
01N22W28G04S (CM4-275)	255-275	8	-11	<150	5,778	↓	→
01N21W19L12S (SCE-220)	200-220	5	-20	<150	62	↓	→
01S22W01H04S (CM6-200)	180-200	5	-19	<150	2,113	↓	→
01S22W01H03S (CM6-330)	310-330	8	-42	<150	2,868	↓	→
01S21W08L04S (CM1A-220)	200-220	5	-10	<150	17,100	↓	→



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - UPPER AQUIFER SYSTEM
2015



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
PLEASANT VALLEY BASIN
2015

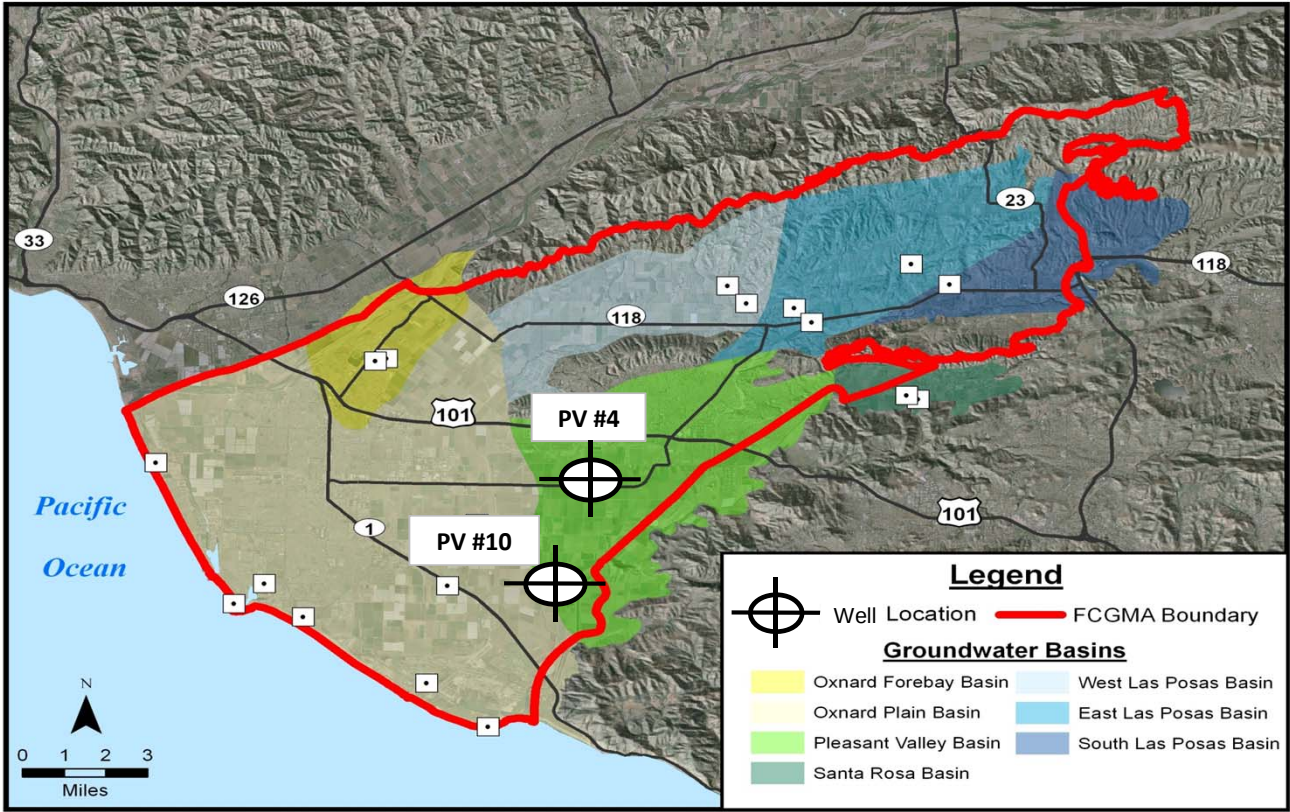
Goal: Prevent inland migration of saline groundwater from coastal areas, underlying sources, and fine-grained interbeds.

BMOs: Water Levels: Average groundwater elevations sufficient to prevent landward migration from coastal areas and minimize vertical gradients.

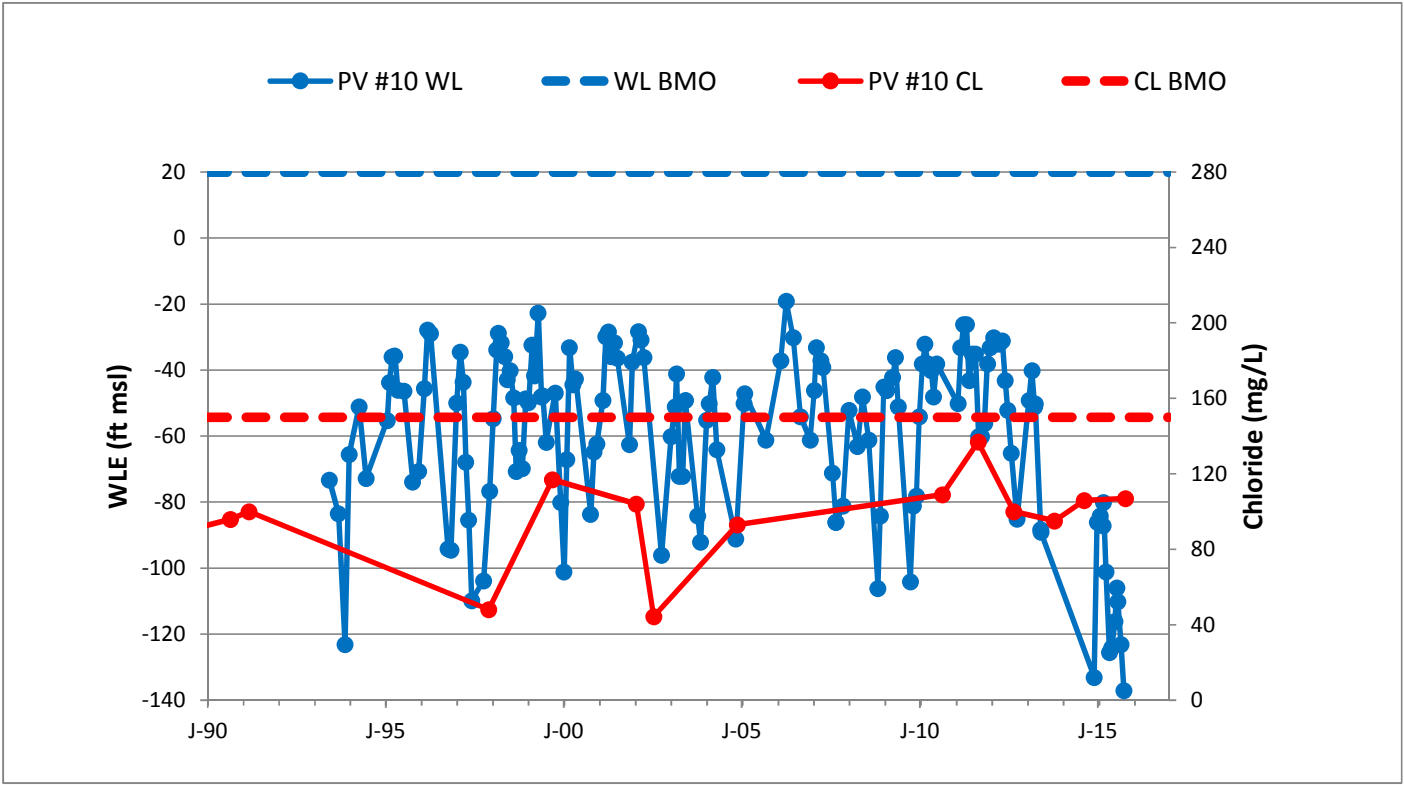
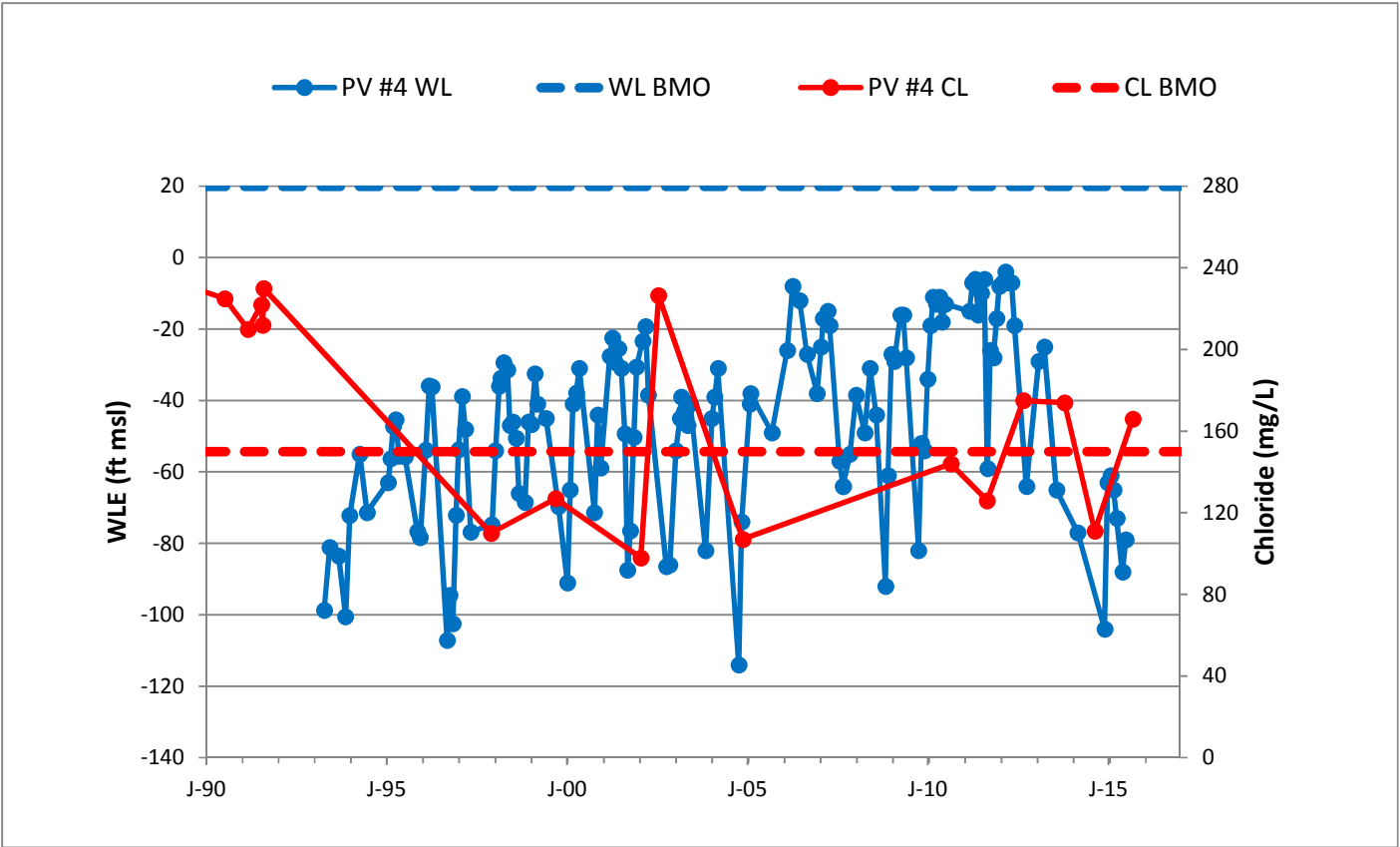
Chloride Concentration: <150 mg/L Chloride (LARWQCB Basin Plan Objective).

Status Summary: In 2015, water level BMOs were not met at either location. Water levels have fluctuated annually yet the overall waterlevels have declined during the last 3 of the last 5 years, remaining significantly below the BMOs. The chloride BMO was met at monitoring location PV#10, but not met at PV#4. Over the past 5-years, the chloride concentrations at both monitoring locations have fluctuated, yet have remained within a limited range of fluctuation.

State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2015 Avg	BMO	2015 Avg	Water Level	Chloride
01N21W03K01S (PV #4)	403-1433	20	-73	<150	166		
01N21W21H02S (PV #10)	503-863	20	-107	<150	107		



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
PLEASANT VALLEY BASIN
2015



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - LOWER AQUIFER SYSTEM
2015

Goal: Prevent saline intrusion in the LAS. Sources are seawater inflow via aquifer outcrops in submarine canyons near Port Hueneme and Pt. Mugu and marine sediments.

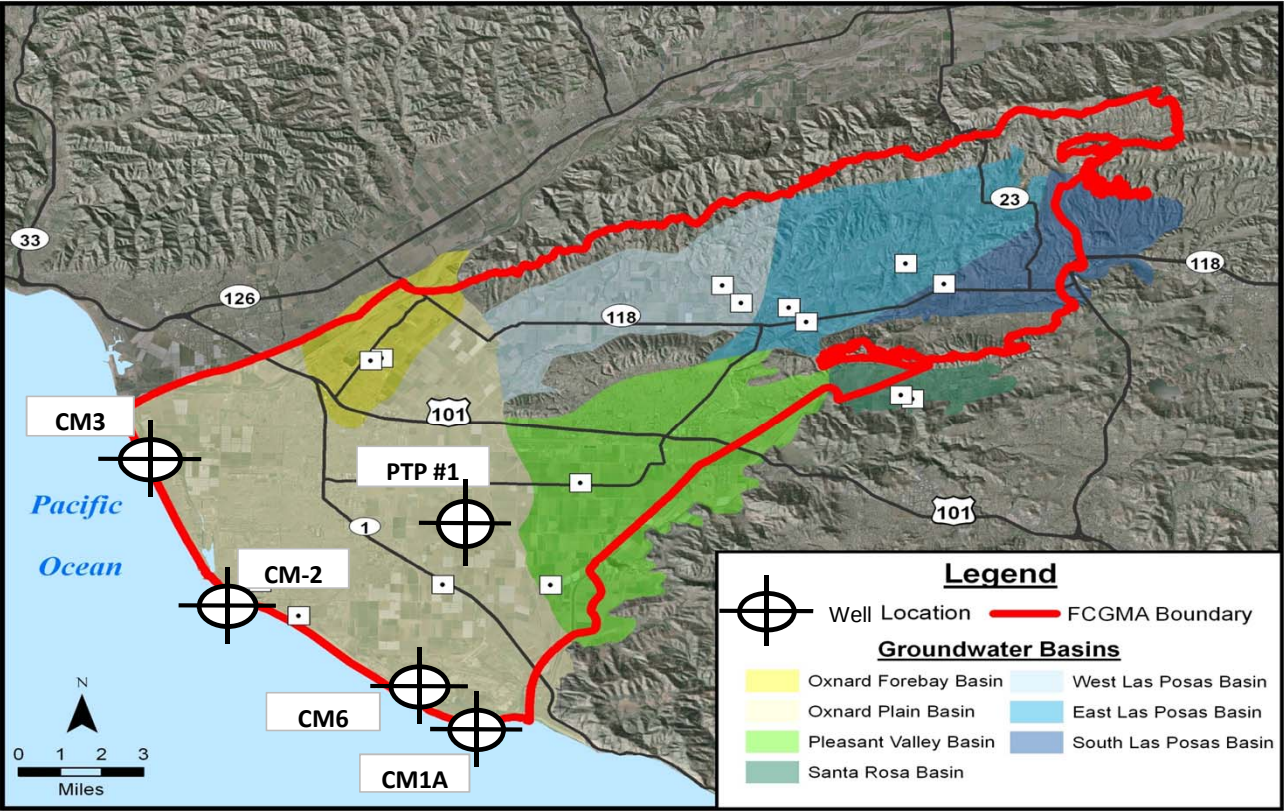
BMOs: Water Levels: Average groundwater elevations sufficient to maintain slight seaward groundwater gradient. Elevation varies with location.

Chloride Concentration: <150 mg/L Chloride (LARWQCB Basin Plan Objective).

Status Summary: In 2015, water level BMOs were not met. Average water level at inland PTP #1 location was below its respective BMO by 125 feet. As long as water levels remain depressed, the potential for saline intrusion remains. Consistent with the past, chloride BMOs were not met near Port Hueneme (CM2) and Pt. Mugu (CM1A) (areas of documented seawater intrusion), as well as at coastal well CM6.

Status Summary Table

State Well Number (name)	Depth (ft)	Water Level (ft msl)		Chloride (mg/L)		5-yr Trend	
		BMO	2015 Avg	BMO	2015 Avg	Water Level	Chloride
01N23W01C04S (CM3-695)	630-695	17	-23	<150	35		
01N22W29D02S (CM2-760)	720-760	19	-30	<150	11,000		
01S22W01H01S (CM6-550)	490-550	13	-67	<150	207		
01S21W08L03S (CM1A-565)	525-565	14	-81	<150	5,810		
01N21W07J02S (PTP #1)	590-1280	20	-105	<150	38		



FOX CANYON GMA BASIN MANAGEMENT OBJECTIVES REPORT CARD
OXNARD PLAIN - LOWER AQUIFER SYSTEM
2015

