CV-SALTS

Regulatory Background related to the Nitrate Management Plan for the Central Valley

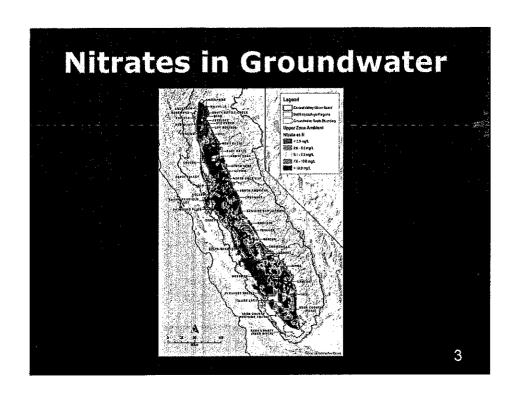
> David W. Cory July 6, 2021

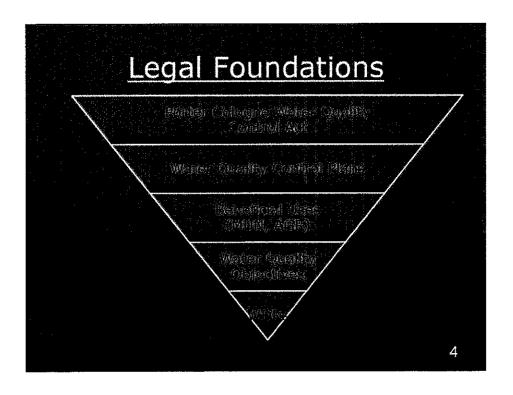
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Central Valley Nitrate Issues

- Legacy Conditions
- Direct Impacts
 - Drinking WaterSupplies
- Economic Costs
 - Treatment
 - Alternate Supply
- Diverse Sources









Traditional Permitting Requirements

 In areas where groundwater quality is poor (e.g. does not meet water quality objectives), discharges to the basin must not exceed the applicable water quality objective.

SWRCB WQO #73-04 and WQO #81-05

 In areas where the groundwater quality is good, discharges are generally regulated to prevent further degradation except under special conditions.

SWRCB Res. No. 68-16

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Traditional Regulatory Options

- Board May allocate assimilative capacity with certain findings
- If no assimilative capacity:
 - (a) require discharge to meet water quality objective; (Time schedule possible)
 - (b) change the water quality standard; or
 - (c) prohibit the discharge
- Mandate Replacement Water Issue Cleanup and Abatement Order

6

Addressing Nitrate in Groundwater

- Addressing legacy nitrate will take decades
- Drinking water protections need to occur much sooner
- Traditional regulatory scheme could result in prohibited discharges without resolving drinking water problems

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Nitrate Program Focused on Addressing Two Primary Goals

Assure Safe Drinking Water

<u>and</u>

Sustain the Agricultural

Economy



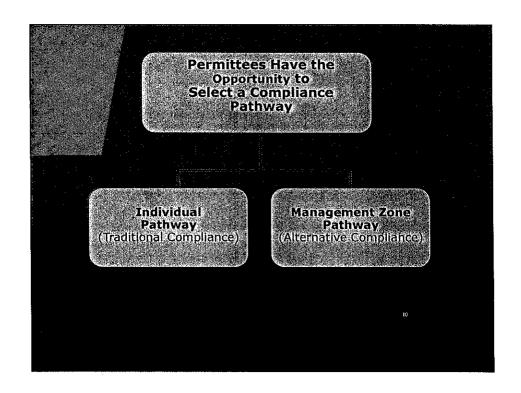


The focus needs to be on solving **both** problems

(0)



At Regional Water Board Discretion



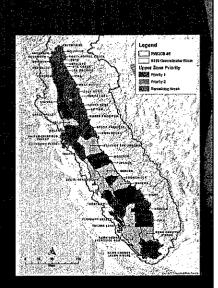
Management Zone Pathway

- Mechanisms to provide alternative water supplies to impacted users
- Means to legally authorize discharges to groundwater from modern farming practices

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Priority Areas

- Priority 1 Area (Red) –
 Notice to Comply Issued May 2020
- Priority 2 Area (Orange)
 Notice to Comply
 Expected to be Issued
 in 2022
- Non-priority Areas (Green)
 Implementation to be phased in at a later date



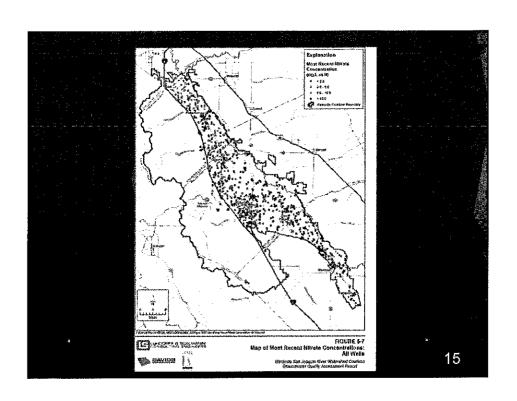
Priority 1 Basins

- Kaweah
- Turlock
- Chowchilla
- Tule
- Modesto
- Kings

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Priority 2 Basins

- Yolo
- Eastern San Joaquin
- Delta Mendota
- Merced
- Madera
- Tulare Lake
- Kern County (Westside South)
- Kern County (Poso)



Management Zones

Defined basin or area

- Voluntary request to the Regional Board to take ownership of water supply, quality and supports dischargers needs in the region
- Requirement to ensure water supply quality for beneficial uses such as domestic well users
- Maximizes value to community and water users

6



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VIX B.

Westside San Joaquin River Watershed Coalition

Water Quality Value Exceedances for the period of 3/1/2021 to 3/16/2021

Blewett Drain at Highw	ay 132				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	986	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
EC	174	3/9/2021	1184	μmhos/cm		900	
Flow	174	3/9/2021	0.7	cfs		0	
Del Puerto Creek at Hw	y 33				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1205	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
pН	174	3/8/2021	9.03			8.5	6.5
Boron	174	3/9/2021	960	ug/L		800	
EC	174	3/9/2021	1255	μmhos/em		900	
Flow	174	3/9/2021	14.4	cfs		0	
pH	174	3/9/2021	9.38			8.5	6.5
Del Puerto Creek near	Cox Ro	ad			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1227	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
рН	174	3/8/2021	9.28			8.5	6.5
Boron	174	3/9/2021	810	ug/L		800	
Flow	174	3/9/2021	27	cfs		0	
рН	174	3/9/2021	9.94			8.5	6.5
Delta Mendota Canal a	t DPW	D			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Flow	174	3/9/2021	1440	cfs		0	
pН	174	3/9/2021	9.37			8.5	6.5
Hospital Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1257	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
Hyalella azteca	174	3/8/2021	20	%	yes	35W	
рН	174	3/8/2021	8.93		J	8.5	6.5
Boron	174	3/9/2021	880	ug/L		800	
EC	174	3/9/2021	1219	μmhos/cm		900	
Flow	174	3/9/2021	0	efs		0	
рН	174	3/9/2021	8.86			8.5	6.5
1800							

WQV = Water Quality Value as established by the Central Valley Regional Water Quality Control Board DNQ = Detected, Not Quantifiable

Thursday, April 29, 2021

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Water Quality Value Exceedances for the period of 3/1/2021 to 3/16/2021

Ingram Creek at Ri	ver Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1163	μmhos/em		900	
Flow	174	3/8/2021	0	cfs		0	
pН	174	3/8/2021	9.41			8.5	6.5
Boron	174	3/9/2021	960	ug/L		800	
Flow	174	3/9/2021	21.6	cfs		0	
рH	174	3/9/2021	9.51			8.5	6.5
Los Banos Creek at	China Can	ip Road			Significant	WQV	wqv
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Arsenic	174	3/9/2021	12	ug/L		10	
Boron	174	3/9/2021	2100	ug/L		800	-
EC	174	3/9/2021	2448	μmhos/cm		900	
Flow	174	3/9/2021	0	efs		0	
Molybdenum	174	3/9/2021	24	ug/L		10	
Los Banos Creek at	Hwy 140				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	2251	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
Boron	174	3/9/2021	1500	ug/L		800	
E, Coli	174	3/9/2021	1986.3	MPN/100 mL	,	235	
EC	174	3/9/2021	1792	μmhos/cm		900	
Mud Slough Upstre	am of San I	Luis Drain			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	174	3/9/2021	1700	ug/L		800	
EC	174	3/9/2021	2274	μmhos/cm		900	
Flow	174	3/9/2021	211	cfs		0	
Newman Wasteway	near Hills	Ferry Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
DO	174	3/8/2021	2.1	mg/l			5
EC	174	3/8/2021	2331	µmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
Boron	174	3/9/2021	950	ug/L		800	
DO	174	3/9/2021	1.8	mg/l			5
EC	174	3/9/2021	2264	μmhos/cm		900	
Flow	174	3/9/2021	0	cfs		0	

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Water Quality Value Exceedances for the period of 3/1/2021 to 3/16/2021

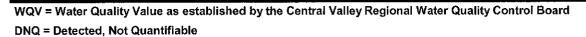
Poso Slough at Indian	ıa Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1442	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
Bifenthrin	174	3/9/2021	0.002	ug/L		0.00001	
E. Coli	174	3/9/2021	920.8	MPN/100 mL	,	235	
EC	174	3/9/2021	1373	μmhos/cm		900	
Flow	174	3/9/2021	5.2	cfs		0	
Salt Slough at Lande	r Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/9/2021	1631	μmhos/cm		900	
Flow	174	3/9/2021	280	cfs		0	
Salt Slough at Sand I)am				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Ceriodaphnia dubia	174	3/9/2021	0	%	yes		
Flow	174	3/9/2021	18.3	cfs		0	
Malathion	174	3/9/2021	6.1 =	ug/L		5E-07	
San Joaquin River at	Lander A	ve			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/9/2021	1159	μmhos/em		900	
Flow	174	3/9/2021	27	cfs		0	
San Joaquin River at	PID Pum	ps			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	174	3/9/2021	1000	ug/L		800	
EC	174	3/9/2021	1356	μmhos/cm		900	
Flow	174	3/9/2021	585	cfs		0	
рН	174	3/9/2021	9.09			8.5	6.5
San Joaquin River at	t Sack Dar	n			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Flow	174	3/9/2021	42	cfs		0	

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Water Quality Value Exceedances for the period of 3/1/2021 to 3/16/2021

Westley Wasteway	estley Wasteway near Cox Road						
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	174	3/8/2021	1155	μmhos/cm		900	
Flow	174	3/8/2021	0	cfs		0	
рН	174	3/8/2021	9.37			8.5	6.5
Boron	174	3/9/2021	930	ug/L		800	
EC	174	3/9/2021	1212	μmhos/cm		900	
Flow	174	3/9/2021	13.5	cfs		0	
рН	174	3/9/2021	9.66			8.5	6.5



Water Quality Value Exceedances for the period of 3/18/2021 to 3/20/2021

Del Puerto Creek near C	cox Ro	ad		······································	Significant	wqv	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	890	ug/L		800	
EC	R30	3/19/2021	1239	μmhos/cm		900	
Flow	R30	3/19/2021	18	cfs		0	
pН	R30	3/19/2021	8.95			8.5	6.5
Delta Mendota Canal at	DPWI	D			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
DO	R30	3/19/2021	4.31	mg/l			5
Flow	R30	3/19/2021	1800	efs		0	
рH	R30	3/19/2021	8.92			8.5	6.5
Hospital Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	1100	ug/L		800	
EC	R30	3/19/2021	1136	μmhos/cm		900	
Flow	R30	3/19/2021	1.8	cfs		0	
pН	R30	3/19/2021	9.06			8.5	6.5
Ingram Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	920	ug/L		800	
EC	R30	3/19/2021	1180	μmhos/cm		900	
Flow	R30	3/19/2021	9	cfs		0	
pН	R30	3/19/2021	9.01			8.5	6.5
Los Banos Creek at Chi	na Car	np Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Arsenic	R30	3/19/2021	13	ug/L		10	
Boron	R30	3/19/2021	2200	ug/L		800	
DO	R30	3/19/2021	2.9	mg/l			5
EC	R30	3/19/2021	2353	μmhos/em		900	
Flow	R30	3/19/2021	0	cfs		0	
Molybdenum	R30	3/19/2021	24	ug/L		10	
Los Banos Creek at Hw	y 140				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	1700	ug/L		800	
E. Coli	R30	3/19/2021	275.5	MPN/100 ml		235	
EC	R30	3/19/2021	1820	μmhos/cm		900	
Nitrate + Nitrite as N	R30	3/19/2021	15	mg/L		10	

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Water Quality Value Exceedances for the period of 3/18/2021 to 3/20/2021

Mud Slough Upstream o	f San l	Luis Drain			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	1600	ug/L		800	
EC	R30	3/19/2021	1967	μmhos/cm		900	
Flow	R30	3/19/2021	282	efs		0	
Molybdenum	R30	3/19/2021	11	ug/L		10	
Newman Wasteway near	r Hills	Ferry Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	1200	ug/L		800	
DO	R30	3/19/2021	3,2	mg/l			5
EC	R30	3/19/2021	2710	μmhos/cm		900	
Poso Slough at Indiana	Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	R30	3/19/2021	0.0007	ug/L		0.00001	
E. Coli	R30	3/19/2021	1203.3	MPN/100 mL		235	
EC	R30	3/19/2021	1235	μmhos/cm		900	
Flow	R30	3/19/2021	10.4	cfs		0	
Salt Slough at Lander A	ve				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	810	ug/L		800	
EC	R30	3/19/2021	1663	µmhos/cm		900	
Flow	R30	3/19/2021	369	cfs		0	
Salt Slough at Sand Dan	1				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	R30	3/19/2021	1012	μmhos/cm		900	
Flow	R30	3/19/2021	10	efs		. 0	
San Joaquin River at La	nder A	ve			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC	R30	3/19/2021	1289	μmhos/em		900	
Flow	R30	3/19/2021	70	cfs		0	
San Joaquin River at PI	D Pum	ıps			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	980	ug/L		800	
EC	R30	3/19/2021	1274	µmhos/cm		900	
Flow	R30	3/19/2021	640	cfs		0	
pH	R30	3/19/2021	8.63			8.5	6.5

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Tuesday, May 11, 2021



Water Quality Value Exceedances for the period of 3/18/2021 to 3/20/2021

San Joaquin River	at Sack Dan	n			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Flow	R30	3/19/2021	38	cfs		0	
Westley Wasteway	near Cox R	oad			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	R30	3/19/2021	960	ug/L		800	
EC	R30	3/19/2021	1234	μmhos/cm		900	
Flow	R30	3/19/2021	18	efs		0	
рН	R30	3/19/2021	9			8.5	6.5

Water Quality Value Exceedances for the period of 4/11/2021 to 4/15/2021

Blewett Drain at Highw	ay 132				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.0005	ug/L		0.00001	
DO	175	4/13/2021	3.98	mg/l			5
EC	175	4/13/2021	948	μmhos/cm		900	
Flow	175	4/13/2021	5.4	efs		0	
pH	175	4/13/2021	8.59			8.5	6.5
Del Puerto Creek at Hy	vy 33				Significant	WQV	wqv
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	175	4/13/2021	960	ug/L		800	
DO	175	4/13/2021	3.57	mg/l			5
EC	175	4/13/2021	1421	µmhos/em		900	
Flow	175	4/13/2021	4.5	cfs		0	
Lambda cyhalothrin	175	4/13/2021	0.0005	ug/L		0.00001	
рН	175	4/13/2021	9.01			8.5	6.5
Del Puerto Creek near	Cox Ro	ad			Significant	wqv	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.001	ug/L		0.00001	
Boron	175	4/13/2021	890	ug/L		800	
Cyfluthrin, total	175	4/13/2021	0.0005	ug/L		0.00024	
DO	175	4/13/2021	3.71	mg/l			5
EC	175	4/13/2021	1331	μmhos/cm		900	
Esfenvalerate/Fenvalerate	175	4/13/2021	0.001	ug/L		0.00001	
Flow	175	4/13/2021	18	efs		0	
Lambda cyhalothrin	175	4/13/2021	0.0006	ug/L		0.00001	
рН	175	4/13/2021	9.06			8.5	6.5
Delta Mendota Canal a	t DPWI	D			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
DO	175	4/13/2021	3.2	mg/l			5
Flow	175	4/13/2021	1800	cfs		0	
pН	175	4/13/2021	9.12			8.5	6.5
Hospital Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.003	ug/L		0.00001	
Boron	175	4/13/2021	890	ug/L		800	
DDE(p,p')	175	4/13/2021	0.0071 DNQ	ug/L		0.00059	
E. Coli	175	4/13/2021	365.4	MPN/100 mL		235	

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Water Quality Value Exceedances for the period of 4/11/2021 to 4/15/2021

Ingram Creek at River	Road			·	Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	8000.0	ug/L		0.00001	
Boron	175	4/13/2021	970	ug/L		800	
Cyfluthrin, total	175	4/13/2021	0.0006	ug/L		0.00024	
Cypermethrin	175	4/13/2021	0.0004 DNQ	ug/L		0.00001	
DDE(p,p')	175	4/13/2021	0.0046 DNQ	ug/L		0.00059	
DO	175	4/13/2021	4.59	mg/l			5
EC	175	4/13/2021	1277	µmhos/cm		900	
Esfenvalerate/Fenvalerate	175	4/13/2021	0.001	ug/L		0.00001	
Flow	175	4/13/2021	18	cfs		0	
Lambda cyhalothrin	175	4/13/2021	0.0008	ug/L		0.00001	
pН	175	4/13/2021	9.06			8.5	6,5
Los Banos Creek at Chi	na Car	np Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.0007	ug/L		0.00001	
E. Coli	175	4/13/2021	2419.6 >	MPN/100 mL		235	
EC	175	4/13/2021	1140	μmhos/cm		900	
Esfenyalerate/Fenyalerate	175	4/13/2021	0.001	ug/L		0.00001	
Lambda cyhalothrin	175	4/13/2021	0.0006	ug/L		0.00001	
Los Banos Creek at Hw	y 140				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Arsenic	175	4/13/2021	11	ug/L		10	
Boron	175	4/13/2021	1900	ug/L		800	
E. Coli	175	4/13/2021	727	MPN/100 mL		235	
EC	175	4/13/2021	1918	μmhos/cm		900	
Flow	175	4/13/2021	22.5	cfs		0	
Marshall Road Drain n	ear Riv	er Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.04	ug/L		0.00001	
Boron	175	4/13/2021	820	ug/L		800	
DO	175	4/13/2021	2.69	mg/l			5
E. Coli	175	4/13/2021	547.5	MPN/100 mI		235	
EC	175	4/13/2021	1306	μmhos/cm		900	
Flow	175	4/13/2021	13.5	efs		0	
Hyalella azteca	175	4/13/2021	0	%	yes		
рН	175	4/13/2021	9.12			8.5	6.5

WQV = Water Quality Value as established by the Central Valley Regional Water Quality Control Board DNQ = Detected, Not Quantifiable

Wednesday, June 9, 2021

Water Quality Value Exceedances for the period of 4/11/2021 to 4/15/2021

Mud Slough Upstream	of San	Luis Drain			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	175	4/13/2021	2700	ug/L		800	
EC	175	4/13/2021	3089	μmhos/cm		900	
Flow	175	4/13/2021	60	cfs		0	
Molybdenum	175	4/13/2021	11	ug/L		10	
Newman Wasteway ne	ar Hills	Ferry Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	175	4/13/2021	960	ug/L		800	
DO	175	4/13/2021	3.2	mg/l			5
E. Coli	175	4/13/2021	1203.3	MPN/100 mL		235	
EC	175	4/13/2021	1650	μmhos/cm		900	
Poso Slough at Indiana	Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Ammonia as N	175	4/13/2021	2.9	mg/L		1.5	
Arsenic	175	4/13/2021	11	ug/L		10	
Dimethoate	175	4/13/2021	5.4 =	ug/L		1	
Diuron	175	4/13/2021	16 =	ug/L		2	
DO	175	4/13/2021	3.7	mg/l			5
E. Coli	175	4/13/2021	2419.6 >	MPN/100 mL	•	235	
EC	175	4/13/2021	1300	μmhos/cm		900	
Esfenvalerate/Fenvalerate	175	4/13/2021	0.001	ug/L		0.00001	
Flow	175	4/13/2021	14.7	cfs		0	
Lambda cyhalothrin	175	4/13/2021	0.0007	ug/L		0.00001	
Selenastrum capricornutum	175	4/13/2021	496000	cells/ml	yes		
Salt Slough at Lander	Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	175	4/13/2021	960	ug/L		800	
DO	175	4/13/2021	4.9	mg/l			5
EC	175	4/13/2021	1884	μmhos/cm		900	
Flow	175	4/13/2021	184	efs		0	
Salt Slough at Sand Da	m				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.004	ug/L		0.00001	
EC	175	4/13/2021	1060	μmhos/cm		900	
Flow	175	4/13/2021	11.3	cfs		0	

WQV = Water Quality Value as established by the Central Valley Regional Water Quality Control Board

DNQ = Detected, Not Quantifiable

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Water Quality Value Exceedances for the period of 4/11/2021 to 4/15/2021

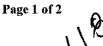
San Joaquin River at I	ander A	ve			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
E. Coli	175	4/13/2021	920.8	MPN/100 mL		235	
EC	175	4/13/2021	1436	μmhos/cm		900	
Flow	175	4/13/2021	28	cfs		0	
San Joaquin River at I	PID Pum	ps			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	175	4/13/2021	960	ug/L		800	
EC	175	4/13/2021	1992	μmhos/cm		900	
Flow	175	4/13/2021	335	efs		0	
рН	175	4/13/2021	8.86			8.5	6.5
San Joaquin River at S	Sack Dar	n			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
EC .	175	4/13/2021	950	μmhos/cm		900	
Flow	175	4/13/2021	37	efs		0	
Westley Wasteway nea	ır Cox R	oad			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	175	4/13/2021	0.001	ug/L		0.00001	
Boron	175	4/13/2021	930	ug/L		800	
Cyfluthrin, total	175	4/13/2021	0.0005	ug/L		0.00024	
Cypermethrin	175	4/13/2021	0.0004 DNQ	ug/L		0.00001	
DO	175	4/13/2021	4.92	mg/l			5
E. Coli	175	4/13/2021	304.4	MPN/100 mI		235	
EC	175	4/13/2021	1230	μmhos/cm		900	
Esfenvalerate/Fenvalerate	175	4/13/2021	0.001	ug/L		0.00001	
Flow	175	4/13/2021	18	cfs		0	
Hyalella azteca	175	4/13/2021	43.3	%	yes		
Lambda cyhalothrin	175	4/13/2021	0.004	ug/L		0.00001	
pH	175	4/13/2021	9.26			8.5	6.5

Water Quality Value Exceedances for the period of 5/1/2021 to 5/31/2021

Blewett Drain at Highw	ay 132				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.0005	ug/L		0.00001	
Lambda cyhalothrin	176	5/11/2021	0.0004 DNQ	ug/L		0.00001	
Del Puerto Creek at Hy	vy 33				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.002	ug/L		0.00001	
Del Puerto Creek near	Cox Ro	ad			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.001	ug/L		0.00001	
Permethrin	176	5/11/2021	0.003 DNQ	ug/L		0.00001	
Hospital Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.01	ug/L		0.00001	
Ingram Creek at River	Road				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.004	ug/L		0.00001	
E. Coli	176	5/11/2021	2419.6 >	MPN/100 mL	ı	235	
Lambda cyhalothrin	176	5/11/2021	0.001	ug/L		0.00001	
Los Banos Creek at Ch	ina Car	np Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Arsenic	176	5/11/2021	15	/T		10	
	170	3/11/2021	15	ug/L		20	
Boron	176	5/11/2021	2200	ug/L ug/L		800	
Boron E. Coli			- -		,		
	176	5/11/2021	2200	ug/L		800	
E. Coli	176 176 176	5/11/2021 5/11/2021	2200 461.1	ug/L MPN/100 mL	Significant	800 235 10	WQV
E. Coli Molybdenum	176 176 176 176	5/11/2021 5/11/2021	2200 461.1	ug/L MPN/100 mL		800 235 10	WQV Min
E. Coli Molybdenum Los Banos Creek at Hw	176 176 176 176	5/11/2021 5/11/2021 5/11/2021	2200 461.1 13	ug/L MPN/100 mL ug/L	Significant	800 235 10	
E. Coli Molybdenum Los Banos Creek at Hw Analyte/Species	176 176 176 176 Ty 140 Event	5/11/2021 5/11/2021 5/11/2021 Sample Date	2200 461.1 13 Result	ug/L MPN/100 mL ug/L Units	Significant Toxicity	800 235 10 WQV Max	

WQV = Water Quality Value as established by the Central Valley Regional Water Quality Control Board DNQ = Detected, Not Quantifiable





Water Quality Value Exceedances for the period of 5/1/2021 to 5/31/2021

Marshall Road Drain n	ear Riv	er Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Arsenic	176	5/11/2021	14	ug/L		10	
Bifenthrin	176	5/11/2021	0.004	ug/L		0.00001	
E. Coli	176	5/11/2021	325.5	MPN/100 mL		235	
Esfenvalerate/Fenvalerate	176	5/11/2021	0.0004 DNQ	ug/L		0.00001	
Lambda cyhalothrin	176	5/11/2021	0.0005	ug/L		0.00001	
Mud Slough Upstream	of San l	Luis Drain			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Boron	176	5/11/2021	2200	ug/L		800	
Molybdenum	176	5/11/2021	16	ug/L		10	
Newman Wasteway nea	ır Hills	Ferry Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.004	ug/L		0.00001	
Lambda cyhalothrin	176	5/11/2021	0.0004 DNQ	ug/L		0.00001	
Poso Slough at Indiana	Ave				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Ammonia as N	176	5/11/2021	2	mg/L		1.5	
E. Coli	176	5/11/2021	517.2	MPN/100 mL		235	
Salt Slough at Sand Da	m				Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.001	ug/L		0.00001	
San Joaquin River at L	ander A	Ave			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
E. Coli	176	5/11/2021	721.5	MPN/100 mI		235	
Westley Wasteway nea	r Cox F	Road			Significant	WQV	WQV
Analyte/Species	Event	Sample Date	Result	Units	Toxicity	Max	Min
Bifenthrin	176	5/11/2021	0.007	ug/L		0.00001	
E. Coli	176	5/11/2021	240	MPN/100 mI		235	
Lambda cyhalothrin	176	5/11/2021	0.002	ug/L		0.00001	

WQV = Water Quality Value as established by the Central Valley Regional Water Quality Control Board DNQ = Detected, Not Quantifiable

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VIX. B.

SUMMERS ENGINEERING

887 N. Irwin St. - PO Box 1122 Hanford, CA 93232 (559) 582-9237 FAX (559) 582-7632

MEMORANDUM

TO:

SJVDA Board of Directors

FROM:

Orvil Mckinnis

DATE:

July 2, 2021

SUBJECT: WSJRWC Work Task Progress

Current tasks being completed include:

- Receiving and processing Management Practices Implementation Reports forms from growers who attended the recent (6/23 & 6/24) Surface Water and Groundwater Focused Outreach meetings covering the subwatersheds of Blewitt Drain, Mud Slough, and Los Banos Creek.
- Assisting MLJ to create Management Plan Completion Reports using Focused Outreach MPIRs.
- Reviewing and editing the 2020-2021 Annual Monitoring Report including all data, subreports, and attachments.
- Analyzing Pesticide Use Report data to create grower contact list for Outreach packets for pesticide exceedances in 11 separate subwatersheds.
- · Continuing to receive and process FE and INMPSR forms from growers. The INMPSR was due 4/15/2021 and the FE was due 3/1/2021.
- Working with Coalition staff and Districts to prepare the 7/31/2021 Membership List submittal to the Regional Board.
- Attend Formula, Values, and Targets meetings; review and analyze Nitrogen applied data at the Township level to determine the N applied values for the Coalition's GW HVAs.
- Attend CVGMC meetings and provide groundwater information and data to the group for the November 30, 2021 Groundwater Quality Monitoring Report submittal to the Regional Board.

		FE			INMPSR	
Entity Name	Acres	Surveyed	Pct	Acres	Surveyed	Pct
	Returned	Acres		Returned	Acres	ru
Central California ID	106,702	125,888	85%	96,591	122,886	79%
Columbia CC	14,162	15,629	91%	14,063	15,621	90%
Del Puerto WD	27,185	38,962	70%	23,914	38,649	62%
Fresno Slough WD	1,321	1,321	100%	1,321	1,321	100%
Individual	30,168	33,768	89%	28,688	30,374	94%
Lone Tree MWC	9,594	11,344	85%	9,881	11,344	87%
Oak Flat WD	1,078	2,029	53%	1,345	2,029	66%
Patterson ID	8,868	10,950	81%	7,341	10,898	67%
San Luis CC	36,871	38,007	97%	34,450	36,142	95%
San Luis WD	24,317	33,977	72%	23,687	33,977	70%
Tranquillity ID	7,183	9,746	74%	7,183	9,746	74%
Turner Island WD	6,314	6,314	100%	6,314	6,314	100%
Twin Oaks ID	2,387	2,387	100%	2,387	2,387	100%
West Stanislaus ID	16,965	20,112	84%	17,381	20,094	86%
White Lake MWC	433	1,230	35%	433	1,230	35%
	293,548	351,665	83%	274,978	343,013	80%

VIX.C.

DWR/SWRCB GSP Assessment Question & Answer Session June 24^{th} , 11:30 AM - 1:00 PM

- General items re: GSPs
 - o Decisions on GSPs will be at the Basin/Subbasin level
 - In the case of multiple GSPs: if one fails, all fail.
 - In the case of multiple GSPs, individual GSPs or parts of them could be incorporated into state intervention efforts if one GSP is determined incomplete.
 - If deemed incomplete due to one GSP, extraction/reporting fees could be waived for individual and/or multiple GSPs.
 - o GSAs/GSP Groups have the power and authority to implement GSPs once they are adopted, even if they haven't received a determination from DWR.
- Notification letters
 - The released notification letters are <u>not</u> the final determinations from DWR regarding GSP approval/deficiencies
 - o Final determinations will be shared by January 2022 per statutory deadline
 - If a GSP is given an "Incomplete" determination, GSA(s) have 180 days to address plan deficiencies
- Recommended vs. required corrective actions
 - Recommended corrective actions
 - Generally, recommended GSP changes can be incorporated into Five Year Updates
 - GSPs with recommended corrective actions would be considered fully approved (not conditional or qualified approval)
 - Required corrective actions
 - Corrective actions are required once a basin is determined "Incomplete"
 - GSAs have 180 days to address the plan deficiencies → this timing is based on DWR's final determination, and is different from the day a consultation letter is received
- Initial GSP findings
 - Eliminating overdraft is a central objective, but not the only requirement this must be done in concert with avoiding undesirable results and development of SMC
 - DWR emphasized detail needed for undesirable results, minimum thresholds and measurable objectives
 - GSPs must include justification for selection of MTs
 - GSPs must evaluate effect of SMCs on all beneficial uses and users
 - Clearly show your work, identify data gaps, and have a detailed schedule for how you intend to fill those gaps

Q&A Session – relevant items for the Delta-Mendota Subbasin

 DWR acknowledged the complexity of GSPs. The first four GSPs evaluated are a single-GSP single-subbasin, and are more geographically isolated. DWR noted that there is no formula for which GSPs will be evaluated next

- o Given the Delta-Mendota Subbasin's complex structure and multiple GSAs and GSPs, it is likely that the Subbasin will not receive determinations until the end of 2021
- DWR encouraged other GSPs to read the released assessments to better understand DWR's evaluation process to prepare responses once notifications and/or determinations are shared
- Subbasins with multiple GSPs will be reviewed within the same period → the Delta-Mendota Subbasin GSPs can plan to receive notifications and assessments at the same time
- DWR understands the reality of data gaps, and explained that they're looking for the best available data to address SMC development.
- Subbasins with multiple GSPs will be evaluated at the subbasin scale → the Delta-Mendota Subbasin's six GSPs can plan to receive the same determination



Table 9-1. Minimum Thresholds and Measurable Objectives – Groundwater Levels

Control of the Party	tentative Wells			Page 1	pose for Mo	toring	regis/196 Production	2512-X	120	198 H200 197 W. H	7,514,52		Select	ion Calent	en e	and the state of t	Surface Water	Paris on				terim Mile	
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matanin a	oral Name	Reference Point Devation (II)	Domestic Viole		Areas Soley Dopendent On GW	Surface Water Depletion	Subsidence	Spring (2010- 2020) (ft rest)	Minimum Dosnestic Well Depth (fr	Minimum Depth with Pump (9 tys)	Domestic + Pump (fi rasi)	ទី(១១)	GDEs GWL Last Ion Years Otm Aj	GWL MTs	Groundwater Solo Areas Minimum Well Depths (19 bes)	Grpupdwater Sole Areus Minkaum Well (Pump (It rist)	Historical Genantiwater Level Low 4 2 Feet (ft.cost)	itsiorical Groundwater Level tow (ft rest)	Selected MTs (ft msl)	Selected MOs (ft rosi)	Year 5 (ft msi)	Year 10 (ft msi)	Year 15
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| 273.58/12/2509/000| 02507-21/2001 | L5 | 13 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 13.

Entropy Control Contro

Groundwater levels are used as a proxy for subsidence, groundwater storage, and interconnected surface water

Tracy Subbasin Groundwater Sustainability Plan Chapter 9

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Table 9-3. Minimum Thresholds and Measurable Objectives – Water Quality

1 Self (2 12 (1).).		(Second	ή (π. π.) lary Upper	2 19 18 18 18 18 18 18 18 18 18 18 18 18 18	0 mg/L)		Nitrate Vimary MC)	(ini	Bor gation Obje	2 5:35 37	ig/L)	150 / 515/545 (\$15) / 10 /	interim Milest 3, Nitrate, Bor	ACCUSION STATE
PWS Code	the first of the second of the	Historical Maximum (mg/t)	-3-2	1 5 5 1 5 5 5 G/G/S	THE RESERVE	Maximum (mg/L)	Minimum (mg/1)	M(s (mg/l)	16 mm 1 187	and the second of	Historical Minimum (mg/l)	化颜料 医生产病	Selected MOs (mg/L)	- Sec. 25 1. 10 - 15 1. 102	Year 10 (mg/l)	Sec. 25.68
7 FE STATE OF THE STATE OF THE	Cupy Ligana	4100	1100	1210	1100	7.8	r Aquifer V 7.8	fells firm	7.8	3.8	3.8	4.2	3.8	1100 79 29	1100, 7.8, 3.8	1100 78 38
	SJCDW00032 SJCDW00034	1100	1200	1320	1200	13.0	13.0	14	13	0.9	0.9	1.0	0.9		1200, 13, 0.9	
3910015-005	WELL 06	470	350	500	470	6.3	2.6	10	6.3	0.2	0.5	0.7	0.2		470, 6,3 , 0.2	
Company of the control of the contro	nga aki daya Akiriya ili ye	7. X 3. Y	3.3.19	3945 44	.013, 18.3		r Aquifer V		AU0.038	125. 7. 3	2 400 Filter	41417	10.35	are said		
3910702-006	WSW009	733	460	1,000	733	2.0	<1.0	10	2,0	1,5	0,3	1.7	1.5	733, 10, 1.5	733, 10, 1.5	733, 10, 1.5
3910011-003	PRODUCTION WELL 01	910	728	1000	910	4.6	<1.0	10	4.6	2.6	2.3	2.9	2.6	910, 10, 2.6	910, 10, 2.6	910, 10, 2.6
3910011-018	WELL OIR - NEW LINCOLN	850	740	1000	850	3.0	<1.0	10	3.0	1.3	1.2	1.4	1.3	850, 10, 1.3	850, 10, 1.3	850, 10, 1.3
3910011-032	PRODUCTION WELL 06	760	538	1000	760	1.3	0.7	10	1.3	1.4	0.9	1.5	1.4	760, 10, 1.4	760, 10, 1.4	760, 10, 1.4
3910011-034	PRODUCTION WELL 07	830	290	1000	830	1.9	0.4	10	1.9	1,8	0,45	2.0	1.8	830, 10, 1.8	830, 10, 1.8	830, 10, 1.8

					Upper	Noullet Wa	ilis » Delta N	đendota S	niesaldı					
	06-004	l I		4000	4000			80	80			3.0	3.0	Current groundwater quality
Y 108904 9:19849	recommendation of the control of the	a at an and	7	14. 10. 30	lower/	Aquifer We	lis - Delta N	/lendota Si	ibbasin 🔧	表 4. "位	28183		化型工程	
	01-007			2000	2000			50	50,0			3.0	3.0	Current groundwater quality
	04-001			4000	4000			70	70.0			0.7	0.6	Current groundwater quality

Notes: Interim milestones for degraded water quality are set for years 5 through 15 to maintain current groundwater quality.

		W	glis - Easte	m San Joan	uin Subba	lli				
Well 16	280	600						360	440	520
 Stockton SSS-8	370	600						 427	485	543

Notes: Only one principal aquifer defined. Lower aquifer not defined in this Subbasin.

	Upp	er Aquifer We	lls i East Cor	tra Costa S	ubbasin				
	ļ					 			
	low	er Aquifor We	lls «East Con	itra Costa S	ubbasin.		7 5 K		
 									 L.,l

Notes: Currently not available.

Tracy Subbasin Groundwater Sustainability Plan Chapter 9

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Figure 5-17). It is possible the subsidence was due to a delayed reaction caused by lowering of groundwater levels between 2006 and 2009.

Table 9-3 provides a summary of the historic rates of subsidence in the Subbasin along with minimum thresholds and measurable objectives established in adjacent basins. It shows the variance of subsidence estimates based on the various methods.

Table 9-3. Rates of Subsidence

Groundwater levels are used as a proxy for subsidence, groundwater storage, and interconnected surface water

	i de la composition de la composition La composition de la	. Store and Stranger	ubsidence tes		nterim Mile of subsiden	/42/2014 TANK STANK
Local Name	Historical Rate of	MT Rate of Inelastic	MO Rate of Inelastic			
	Inelastic Subsidence (ft)	Subsidence (ft/yr)	Subsidence (ft/yr)	Year 5	Year 10	Year 15
PBO Station (P257) Subsidence Rates		u Berter, redesi		有等特种	\$\$\$\$\$\$\$	policy and the
2006 to 2012	0					
2014 to 2015	-0.04					
2006 to 2020	-0.03					
Satellite-Based Subsidence Rates	Narago ber	anda (Chiripi	位数值值的。	All Propests	5-30 Strift Str	的名词复数 的复数
May 2015 to Sep 2016	-0.08 to -0.70					
Delta-Mendota Canal Benchmarks in Trac	y Subbasin	4m/2007 (4/16)	的物理性的	化水质 语	10 李琳 (李)5	155 (CHR) (SE2180)
1984-2018	-0.21 to -0.71					
Delta-Mendota Canal Benchmarks in Delta	a-Mendota Subbasin ¹	r soften die We	建筑 企业设置	opening.	ir om galantarios	
01-010 (Subsidence Monitoring Point #1)	-0.13	-0.13	-0.11	-0.12	-0.12	-0.11
01-013 (Subsidence Monitoring Point #4)	-0.13	-0.13	-0.11	-0.12	-0.12	-0.11

Notes: 1 = From Northern & Central Delta-Mendota Subbasin GSP

9.7.2 Undesirable Results

Figure 3-22 show the locations of some of the infrastructure (canals and highways) in the Subbasin that could be affected by subsidence. Over 60 percent of the land use in the area is agriculture, as shown on **Figure 3-6**, which would not be significantly impacted by subsidence, but may require releveling of fields and deepening of earthen canals.

The criteria used to define significant and undesirable results for subsidence (due to groundwater extractions) are:

- The ability to deliver surface water supplies in the Delta-Mendota Canal and California Aqueduct.
- Impacts to sewer and storm drains preventing proper drainage.
- Replacement of pavement on Highways 580 and Interstate 5 due to cracking induced by subsidence.
- Lowering of levee crowns adjacent to rivers allowing flooding to occur.

For the Tracy Subbasin, undesirable results would be an increase from historic rates of subsidence (refer to **Table 9-3**) in the Non-Delta Management Area caused by lowering of groundwater levels that impacts infrastructure.

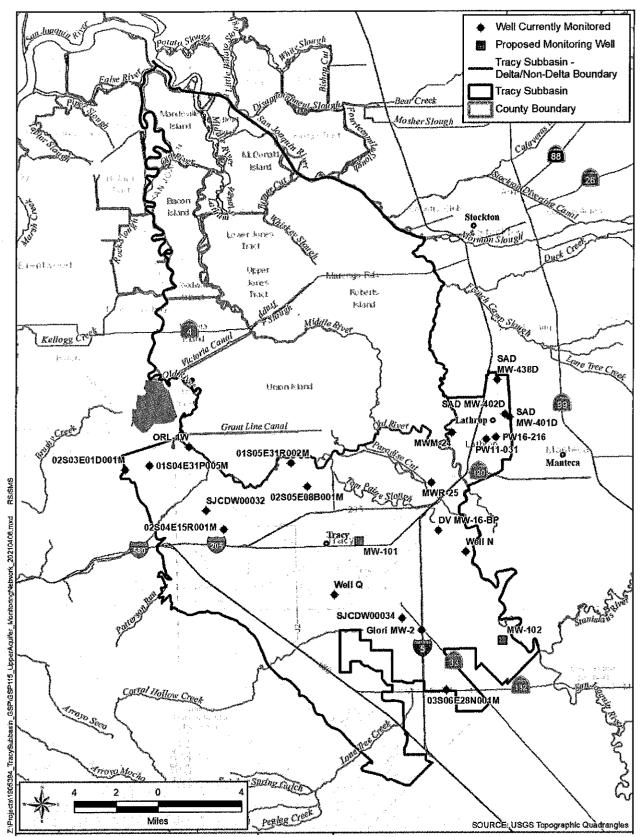


Figure 8-1. Upper Aquifer Groundwater Level Monitoring Wells



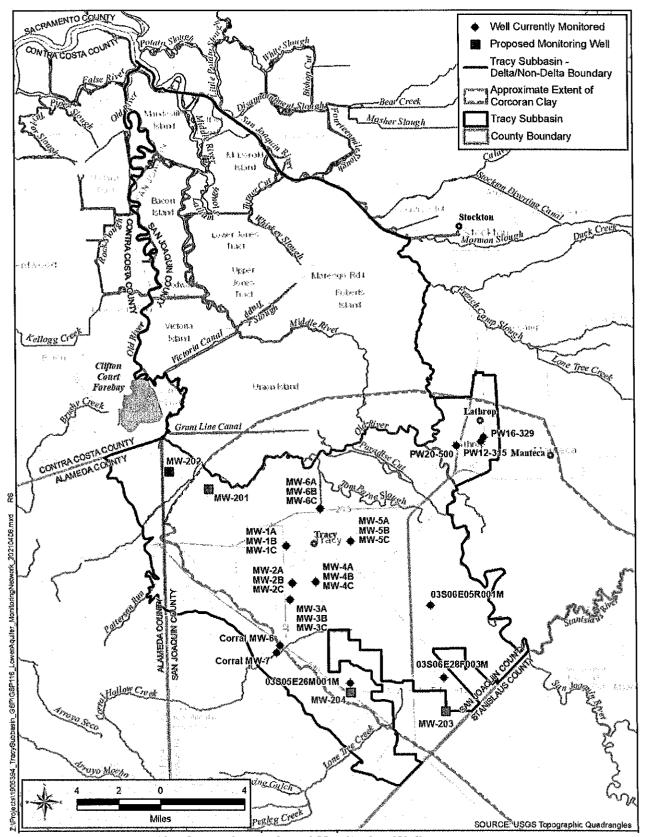


Figure 8-2. Lower Aquifer Groundwater Level Monitoring Wells

Table 8-4. Data Gap Monitoring Wells

Table 0-4. L	Data Gap IVIC	onitoring wells	
Figure No.	Total Depth (feet bgs)	Location	Benefit
	Kirker British	Upper Aquifer	
8-3	70	Install on City of Tracy Property,	Provides monitoring for protection of
shown as		adjacent to Lower aquifer nested	domestic well owners. Provides for vertical
MW-101		well MW-5.	heads between Upper and Lower Aquifers.
(new)			
8-6	50	Install in San Joaquin County Road	Provides monitoring for protection of
shown as		easement.	groundwater dependent ecosystems.
MW-102			
(new)			William Market and Mar
		Lower Aquifer	自由被表现的 机多多分类的 医多种的 医皮肤
8-9	805	Install in Banta-Carbona canal	Provides monitoring for protection of
shown as		easement.	agriculture wells. Needed to define extent
MW-201			of Corcoran clay and gradient leaving basin.
(new)			
8-9	1100	Install in Mountain House water	Provides monitoring for protection of
shown as		treatment facility.	agriculture wells. Needed to define extent
MW-202			of Corcoran clay and gradient leaving basin.
(new)			
8-9	750	Install in south portion of the	Provides monitoring for protection of
shown as		subbasin, to replace	agriculture wells. Needed to resolve
MW-203		03S05E26M001M. Approximate	gradient between subbasins (TSb and
(new)		location.	DMSb).
8-9	800	Install in south portion of the	Provides monitoring for protection of
shown as		subbasin to replace	agriculture wells. Needed to resolve
MW-204		03S06E28F003M. Approximate	gradient between subbasins (TSb and
(new)		location.	DMSb).

8.3 Reduction in Groundwater Storage Monitoring Network

Change in groundwater storage monitoring network will use the groundwater level representative monitoring network described above in **Chapter 8.2.2**. The DWR has utilized for decades changes in groundwater elevations along with specific yield estimates to estimate changes in storage.

Because groundwater levels will be used as a proxy for groundwater storage changes, discussions of monitoring frequency and spatial density will be the same as for chronic lowering of groundwater levels as described in **Chapters 8.2.3 and 8.2.4**.

8.4 Seawater Intrusion Monitoring Network

As stated previously, the Subbasin is not located near the Pacific Ocean which precludes the consideration of seawater intrusion as a sustainability indicator. The closest area where saline water intrusion is present is about 20 miles west of the Subbasin boundary, near the city of Antioch. Therefore, seawater intrusion is not present and is not likely to occur in the Subbasin and a monitoring network and monitoring is not required.



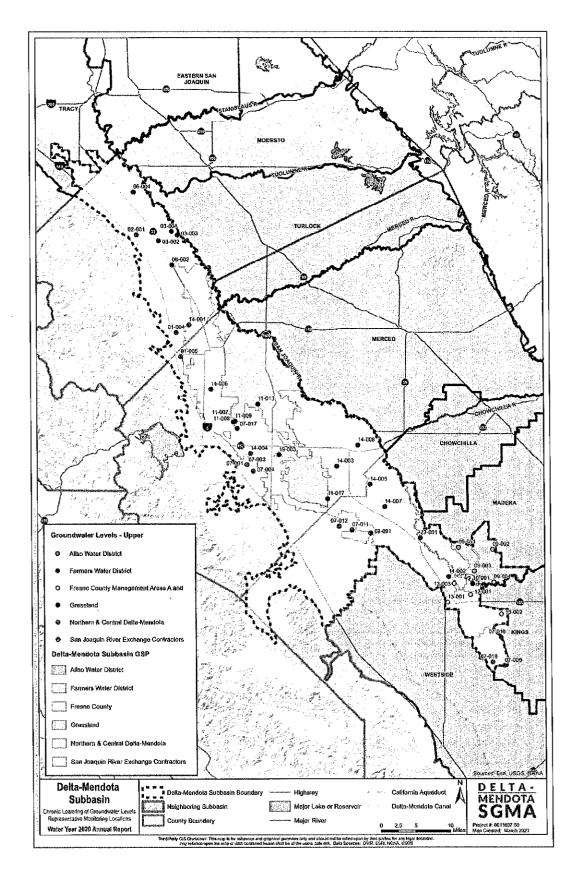


Figure A-1. Chronic Lowering of Groundwater Levels Representative Monitoring Network, Upper Aquifer

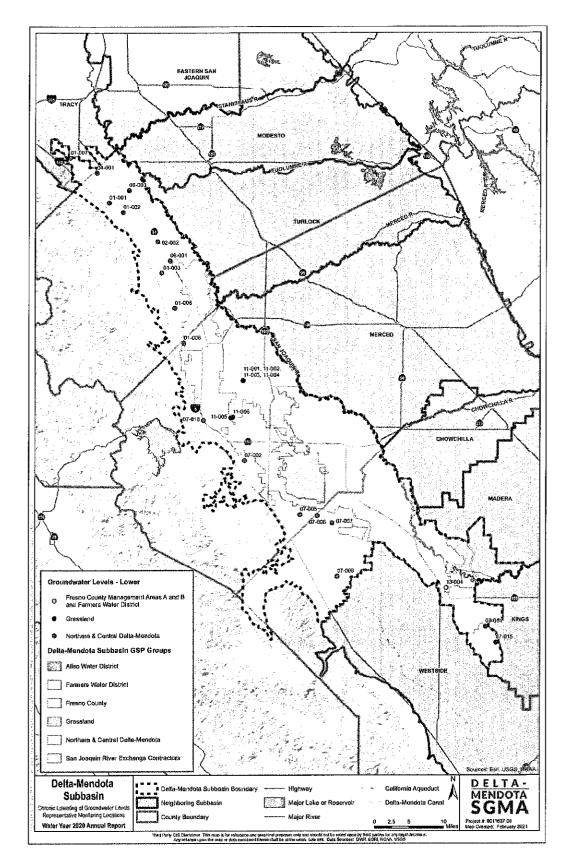


Figure A-2. Chronic Lowering of Groundwater Levels Representative Monitoring Network, Lower Aquifer

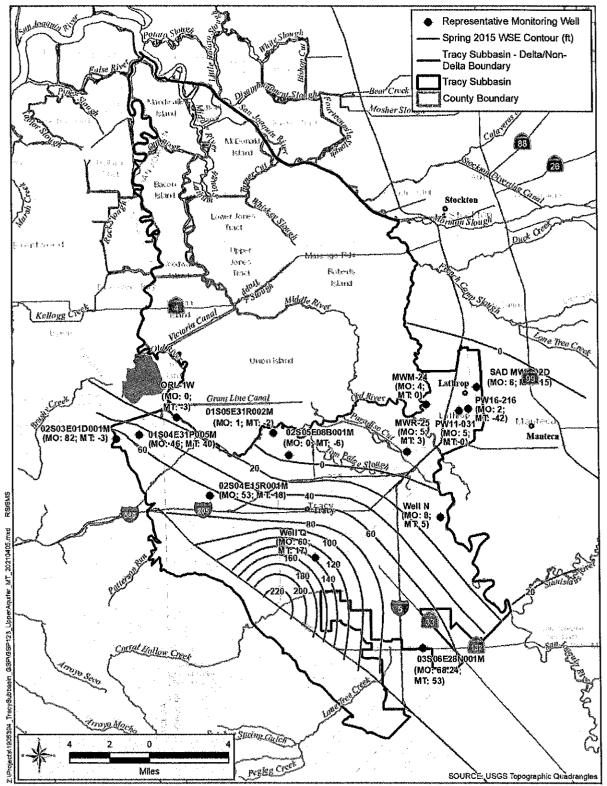


Figure 9-1. Upper Aquifer Groundwater Levels to Minimum Thresholds

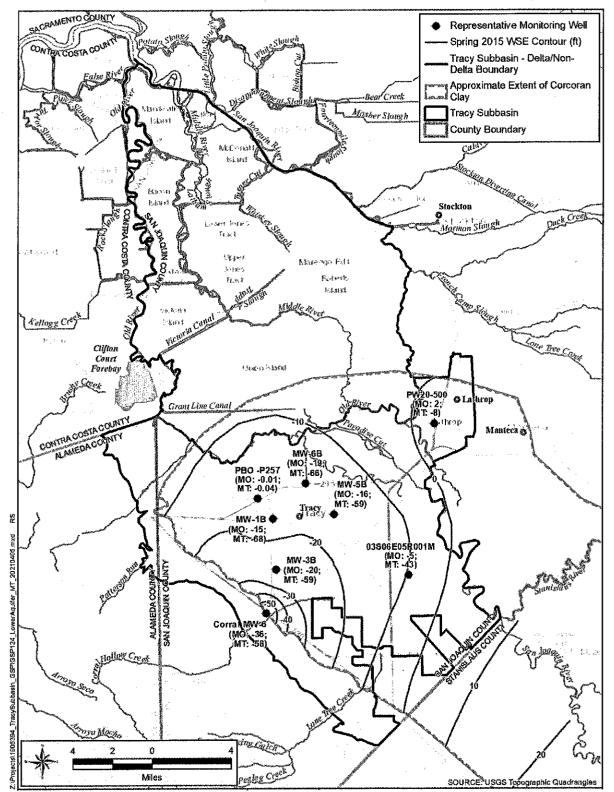


Figure 9-2. Lower Aquifer Groundwater Levels to Minimum Thresholds

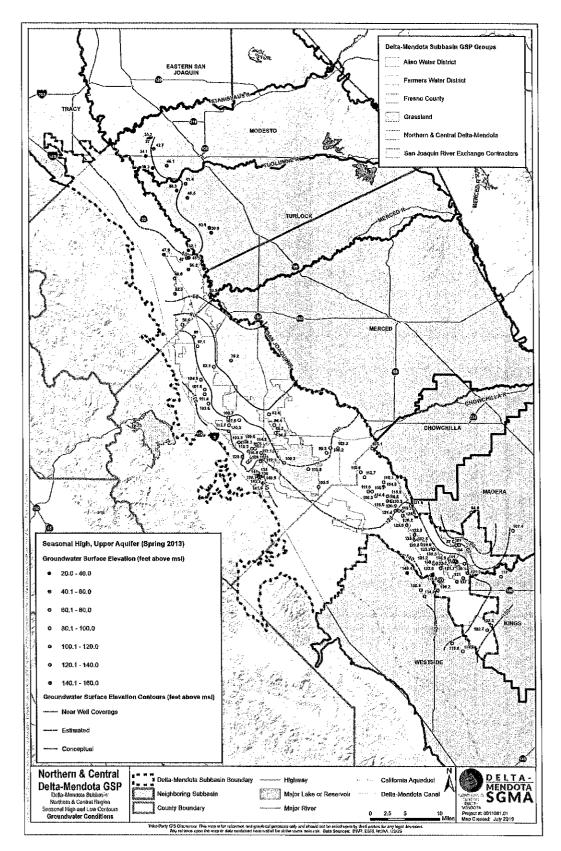


Figure 5-80. Spring 2013 Upper Aquifer Groundwater Contour Map, Delta-Mendota Subbasin

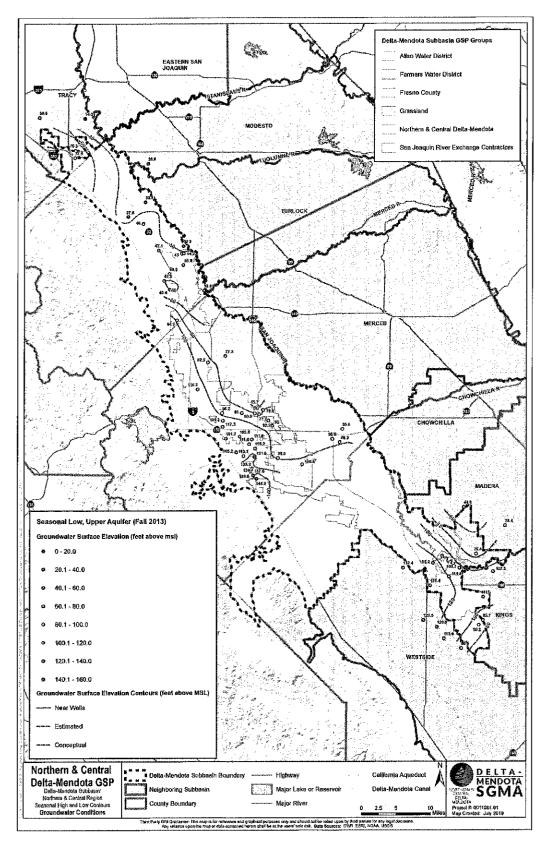


Figure 5-81. Fall 2013 Upper Aquifer Groundwater Contour Map, Delta-Mendota Subbasin

Agenda Item 10,a - Three-Month Look-Ahead Schedule

GSP Implementation Schedule Northern Central & Delta-Mendota GSP Region

3-MONTH LOOK-AHEAD SCHEDULE

	The state of the s	The state of the s	
TASK	RESPONSIBLE PARTY	START	JUN JUN AUGUST WEEKS
BASIN-SCALE COORDINATION			
Intra-Basin Coordination	-		
Coordination Committee	Basin GSAs	Quarterly (2nd Monday)	The state of the s
DM Technical Working Group	Basin GSAs	As-needed	
DMS Working Group	Basin GSAs	As-needed	
Inter-Basin Coordination	Comments of Comments	40,00	
Inter-Basin Coordination Meetings	Basin GSAs / Stanted	0/1/70 TV 2/7/7	
Prop 68 Coordination	weeth finite.	56174 56173	一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一
Grant Administration"	מאטין האטרים		
Well Census and Inventory	Basin GSAs / Par		
Subsidence Characterization and Feasibility Study	San Cardo riseo	7/7/4 07/77/77	
N-C REGION COORDINATION / ADMINISTRATION			
N-C Coordination Meetings			
Northern and Central Region Mingrit Committees Meetings	GSAs	Monthly	
Northern Region Management Committee Meetings	GSAs	As-needed	
Central Region Management Committee Meetings	GSAs	As-needed	
Technical/Finance Working Group Meetings	GSAs	G81	
Quarterly GSP Progress Checks		* 1	
GSP Implementation Progress Reports (Tracking Tools)	GSAs	in-Annually	
Quarterly GSP implementation Update Reports	W&C	Quarterly	1
IN-C REGION GSP IMPLEMENTATION		-	
Water Level Monitoring			,
Upload Spring Water Level Data to DWR MNM	GSAs / W&C		
Collect Fall Water Level Data	GSAs / SLDMWA		et e
Data OA/QC	GSAs / W&C		v.
Data Consolidation/Upload to DMS/SGMA Portal	· GSAs / W&C	•	
Install New Monitoring Wells	GSAs	7/1/20 3/31/22	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Water Quality Monitoring			end a find the filtery of the filtery commentations and a significant section of the filtery of
Collect Water Quality Data	GSAs		
Data QA/QC	GSAs / W&C		
Data Consolidation/Upload to DIMS	GSAs / W&C	7/31/21 9/30/21	
Interconnected Surface Water Monitoring			Section 1
Install/identify New Monitoring Wells	WOWN / Old / OISM	3/1/20 12/31/21	
Meet with Adjoining GSP Groups	WSID / DID / NWDW	As-needed	
Subsidence Monitoring		10/10/2	
Collect Subsidence Data	ONER / GOAS	12/12/4 V2/12/1	
Data QA/QC	GSAS / WRK.		
Data Consolidation/Upload to DWS	GOAS / WAL		
Projects**		(84)	
Los Banos Creek Recharge and Recovery Project	SLWD	, e	
Kaijian Drainwater Reuse Project	SLWD		, , , , , , , , , , , , , , , , , , ,
Orestimba Creek Racharge and Recovery Project	DPWD	47/TC/7T 07/T/S	
NVRRWP Increased Modesto and Turlock Portions ¹⁹	DPWD	Complete	
Percolation Ponds for Stormwater Capture and Recharge	City of Patterson		
WSiD Lateral 4-North Recapture and Recirculation Reservoir	WSID	FS in 2021 TBD	
Revision to TRID Lower Aquifer Pumping	TRID	Sulog-uo	

GSP Implementation Schedule

Northern Central & Delta-Mendota GSP Region

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3-MONTH LOOK-AHEAD SCHEDULE

As-Needed Technical Support	Project Management and Communication	USGS / Basin Model	Additional GSP Activities	Fill Data Gaps	Drought Contingency Planning in Urban Areas	Increasing GSA Access to and Input on Well Permits	Maximize Use of Other Water Supplies	Lower Aquifer Pumping Rules for Minimizing Subsidence	Management Actions ^(a)		**************************************
EKI / W&C	SLDMWA / EK	USGS/USBR		GSAs	GSAs	GSAs	GSAs	GSAs		PARTY	RESPONSIBLE
3/1/20	3/1/20	3/1/20		2/1/20	2/1/20	6/11/20	6/25/20	6/25/20		J. Mil.	e-var
2/28/22	2/28/22	12/31/21		12/31/25	6/30/21	12/31/21	12/31/25	12/31/22		gyb	E MIT
										WEEK 1 WEEK 2 WEEK 3 WEEK 3 WEEK 1 WEEK 2 WEEK 3 WEEK 4 WEEK 1 WEEK 2 WEEK 3 WEEK 6 WEEK 5 WEEK 1 WEEK 2 WEEK 3 WE	JUN JUL AUG

Abbreviations

DM = Delta Mendota

DMS = Data Management System

FS = Feasibility Study

GSA = Groundwater Sustainability Agency EKI = EKI Environment & Water, Inc. DPWD = Del Puerto Water District PD = Preliminary Design P&MA = Projects and Management Actions P&P = Provost & Pritchard PID = Patterson Irrigation District

GSP = Groundwater Sustainability Plan

NVRRWP = North Valley Regional Recycled Water Program

- QA/QC = Quality Assurance/Quality Control
 SLDMWA = San Luis & Delta-Mendota Water Authority SLWD = San Luis Water District TBD = to be determined TRID = Tranquillity Irrigation District
- USBR = United States Bureau of Reclamation
 USGS = United States Geological Survey W&C = Woodard & Curran WY = Water Year WSID = West Stanislaus Irrigation District

- Notes

 (a) Prop 68 Grant Coordination activities extend through 4/1/2022; Projects and Management Actions extend through 2025.

 (b) Portion of project is complete. Increased supply of recycled water expected.

 (c) Needs to be coordinated with Orestimba and Del Puerto Creek projects.

 (d) In operation starting in 2017.

Rev: 6/16/2021

VIX.E.

Anthea Hansen

From:

Houston, David@Waterboards < David. Houston@Waterboards.ca.gov>

Sent: To: Friday, July 9, 2021 10:28 AM Anthea Hansen; Adam Scheuber

Cc:

Way, Kristen@Waterboards

Subject:

Re: 8507-110 Irrigation System Improvement Project II

Ok, thank you for the clarification. I'll pass this information along and we will probably try to set up another meeting with you soon to discuss options and recommendations.

Dave

David M. Houston, P.E.
Water Resource Control Engineer
Division of Financial Assistance, Water Recycling Funding Program
State Water Resources Control Board
1001 "I" Street, 16th Floor, Sacramento, CA 95814
(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen <ahansen@delpuertowd.org>

Sent: Friday, July 9, 2021 10:25:43 AM

To: Houston, David@Waterboards < David. Houston@Waterboards.ca.gov >; Adam Scheuber

<ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov> **Subject:** RE: 8507-110 Irrigation System Improvement Project II

EXTERNAL:

Dave,

Once we are able to secure the funding agreement, we would notice the "program" with a sign-up date. Project construction would likely commence six months or so following that. If not all of the funds were requested in the first "offering:, we would them take applications on a first come-first served basis until all of the funding was exhausted, or until the Agreement expired (if not extended).

Anthea

From: Houston, David@Waterboards < David. Houston@Waterboards.ca.gov>

Sent: Friday, July 9, 2021 10:20 AM

To: Anthea Hansen <ahansen@delpuertowd.org>; Adam Scheuber <ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov > Subject: Re: 8507-110 Irrigation System Improvement Project II

Hi Anthea,

Ok, thank you. So, the construction start date would be flexible, depending on when funds can be made available by our program?

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Dave

David M. Houston, P.E.
Water Resource Control Engineer
Division of Financial Assistance, Water Recycling Funding Program
State Water Resources Control Board
1001 "I" Street, 16th Floor, Sacramento, CA 95814
(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen ahansen@delpuertowd.org

Sent: Friday, July 9, 2021 9:51:56 AM

To: Houston, David@Waterboards David.Houston@Waterboards.ca.gov; Adam Scheuber

<ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov Subject: RE: 8507-110 Irrigation System Improvement Project II

EXTERNAL:

Hi Dave

Sounds good. Hopefully ADLP will have some funds, even if a lesser amount. That is probably the reason we were directed to that program last time after our original SRF.

Also, I think the application window would be less, say two to three years to get all of the funding assigned to projects. The repayment window for the loans would be up to ten years.

Anthea

Anthea G. Hansen

General Manager Del Puerto Water District PH 209-892-4470/FAX 209-892-4469

From: Houston, David@Waterboards < <u>David.Houston@Waterboards.ca.gov</u>>

Sent: Friday, July 9, 2021 9:43 AM

To: Anthea Hansen ahansen@delpuertowd.org; Adam Scheuber ascheuber@delpuertowd.org;

Cc: Way, Kristen@Waterboards < <u>Kristen.Way@Waterboards.ca.gov</u>> **Subject:** Re: 8507-110 Irrigation System Improvement Project II

Hi Anthea.

Yes, I have an update, and a call will likely need to be scheduled at a later date, but we are fact finding right now.

We met internally yesterday with several technical and environmental staff and managers, and feel that SRF isn't a great fit for the funding for your project because of the environmental requirements of the program. However, we are talking to the supervisor of the ADLP program that the District was funded by in the past to see if there are funds available.

A question came up as to the timing of the project. The project description mentions a 10-year window for landowners to apply to the program set up by the District, but is there a start date in mind? Or does the start date depend on when the funding can be made available?

Dave

David M. Houston, P.E.
Water Resource Control Engineer
Division of Financial Assistance, Water Recycling Funding Program
State Water Resources Control Board
1001 "I" Street, 16th Floor, Sacramento, CA 95814
(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen ahansen@delpuertowd.org

Sent: Friday, July 9, 2021 9:01:45 AM

To: Houston, David@Waterboards < <u>David.Houston@Waterboards.ca.gov</u>>; Adam Scheuber

<ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov Subject: RE: 8507-110 Irrigation System Improvement Project II

EXTERNAL:

Hi Dave,

Any updates for us? Do we need to have another call?

Anthea G. Hansen

General Manager Del Puerto Water District PH 209-892-4470/FAX 209-892-4469

From: Houston, David@Waterboards <David.Houston@Waterboards.ca.gov>

Sent: Thursday, June 24, 2021 6:10 PM

To: Anthea Hansen <ahansen@delpuertowd.org>; Adam Scheuber <ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov Subject: RE: 8507-110 Irrigation System Improvement Project II

Thank you, Anthea!

We will get back to you regarding any items we may need for the environmental review asap.

Dave



David M. Houston, P.E.

Water Resource Control Engineer
Division of Financial Assistance, Water Recycling Funding Program
State Water Resources Control Board
1001 "I" Street, 16th Floor, Sacramento, CA 95814

(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen <a hansen@delpuertowd.org>

Sent: Thursday, June 24, 2021 3:42 PM

To: Houston, David@Waterboards < David. Houston@Waterboards.ca.gov >; Adam Scheuber

<ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov Subject: RE: 8507-110 | Irrigation System | Improvement Project | II

EXTERNAL:

Dave,

Attached is the District's ADLP Agreement. The DRF was, in fact, the one you already found in your system from 1998. My how time flies.

Anthea G. Hansen

General Manager Del Puerto Water District PH 209-892-4470/FAX 209-892-4469

From: Houston, David@Waterboards <David.Houston@Waterboards.ca.gov>

Sent: Tuesday, June 15, 2021 4:28 PM

To: Anthea Hansen <ahansen@delpuertowd.org>; Adam Scheuber <ascheuber@delpuertowd.org>

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov Subject: Re: 8507-110 Irrigation System Improvement Project II

Hi Anthea,

I received some confirmation regarding the eligibility of this project. It appears to be eligible from a technical standpoint. There may be some internal bookkeeping distinctions for us because different funds have different rules, but that shouldn't have any bearing on the District.

Since we have the green light to proceed, I will go ahead and coordinate a meeting to discuss environmental aspects of the project. I am leaving on vacation for a few days, I will be back to work on 6/24. It looks like Kristen and I have availability the following times at the end of next week:

- 6/24, from 1:00 to 3:30
- 6/25, from 9:00 to 12:30

If those times don't work, I can take a look at the following week.

W

Thanks, Dave

David M. Houston, P.E.

Water Resource Control Engineer

Division of Financial Assistance, Water Recycling Funding Program

State Water Resources Control Board

1001 "I" Street, 16th Floor, Sacramento, CA 95814

(916) 322-6042 | david.houston@waterboards.ca.gov

From: Houston, David@Waterboards < David. Houston@Waterboards.ca.gov >

Sent: Wednesday, June 9, 2021 1:22 PM

To: Anthea Hansen ahansen@delpuertowd.org; Adam Scheuber ascheuber@delpuertowd.org;

Cc: Way, Kristen@Waterboards < Kristen.Way@Waterboards.ca.gov > Subject: Re: 8507-110 Irrigation System Improvement Project II

Hi Anthea,

I'm still waiting on some direction from our supervising engineer, Mike Downey. I spoke to him and our senior engineer, Sunny Kals, yesterday about the project. The feeling is that the project is eligible as a non-point source project to benefit Delta water quality, but there may be some issues with the structure of the project since the equipment would be on private property to be operated and maintained by the landowner. Mike plans to meet with legal counsel to discuss the project before we move forward.

Dave

David M. Houston, P.E.

Water Resource Control Engineer

Division of Financial Assistance, Water Recycling Funding Program

State Water Resources Control Board

1001 "I" Street, 16th Floor, Sacramento, CA 95814

(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen ahansen@delpuertowd.org

Sent: Wednesday, June 9, 2021 1:01 PM

To: Houston, David@Waterboards < David. Houston@Waterboards.ca.gov >; Adam Scheuber

<ascheuber@delpuertowd.org>

Subject: RE: 8507-110 Irrigation System Improvement Project II

EXTERNAL:

Hi Dave,

I am just circling back to see if we can schedule a discussion on this.

Anthea G. Hansen

General Manager Del Puerto Water District PH 209-892-4470/FAX 209-892-4469

From: Anthea Hansen

Sent: Thursday, May 27, 2021 10:05 AM

To: 'Houston, David@Waterboards' < David. Houston@Waterboards.ca.gov >; Adam Scheuber

<ascheuber@delpuertowd.org>

Subject: RE: 8507-110 Irrigation System Improvement Project II

Dave,

Sounds good. Recall, we've had two very successful previous programs (SRF & ADLP) that utilized our same proposed structure. I know things change over time with requirements, but I am hopeful whatever guidance was used previously may also be applicable now.

Anthea G. Hansen

General Manager Del Puerto Water District PH 209-892-4470/FAX 209-892-4469

From: Houston, David@Waterboards < David.Houston@Waterboards.ca.gov>

Sent: Thursday, May 27, 2021 9:58 AM

To: Anthea Hansen ahansen@delpuertowd.org; Adam Scheuber ascheuber@delpuertowd.org;

Subject: Re: 8507-110 Irrigation System Improvement Project II

Hi Anthea,

Yes, it sounds like a meeting would be a good idea. Before we meet with Kristen, I want to loop in our unit's senior engineer and maybe our section's supervising engineer to make sure we don't run into any eligibility issues. SRF funds need to be for the benefit of a public entity, not a private landowner, so we need to make sure that the project can be conducted in a way that meets eligibility requirements for the funds, and they



may have some suggestions. I will discuss the project with them and see if they feel a meeting with them would be a good idea, then schedule a call with Kristen either separately or at the same time.

Dave

David M. Houston, P.E.

Water Resource Control Engineer

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Division of Financial Assistance, Water Recycling Funding Program

State Water Resources Control Board

1001 "I" Street, 16th Floor, Sacramento, CA 95814

(916) 322-6042 | david.houston@waterboards.ca.gov

From: Anthea Hansen ahansen@delpuertowd.org>

Sent: Thursday, May 27, 2021 8:57 AM

To: Houston, David@Waterboards <David.Houston@Waterboards.ca.gov>; Adam Scheuber

<ascheuber@delpuertowd.org>

Subject: RE: 8507-110 Irrigation System Improvement Project II

EXTERNAL:

Hi Dave,

This is really good news! We appreciate your continued efforts on our behalf.

Would it be possible for us to convene a call with you and Kristen Way to review these deliverables? All of the projects will be implemented by the respective Landowners on private property, similar to our previous projects. Thus, we have minimal intersection with the requirements of CEQA.

Please let us know when might be a convenient time for you, and we can schedule a call.

Anthea G. Hansen

General Manager

Del Puerto Water District

PH 209-892-4470/FAX 209-892-4469

From: Houston, David@Waterboards < David.Houston@Waterboards.ca.gov>

Sent: Tuesday, May 25, 2021 2:42 PM

To: Anthea Hansen ahansen@delpuertowd.org; Adam Scheuber ascheuber@delpuertowd.org;

Subject: 8507-110 Irrigation System Improvement Project II

Hi Anthea and Adam,

I have some good news. It isn't official yet, but it looks like, barring unforeseen changes, this project will make it onto the fundable list in our Intended Use Plan (IUP) for the coming fiscal year. The IUP will be officially voted on by the Board in mid-June. We try to start the environmental review part of our process as early as possible, because it tends to have the longest lead time due to consultations with other agencies. After her initial review, the environmental reviewer for this project (Kristen Way) has a few items that she will need to move forward.

For a design-build project, even though the District doesn't have exact locations, we still must review whatever area might be in the project. So, we would need to identify all potential project areas.

We will need the following for the environmental review:

- Updated Environmental Package Form (attached)
- Map that shows all of the potential areas for the project
- Official Species Lists for the Endangered Species Act
- Biological Report
- Cultural Report (SEND DIRECTLY TO ME, NOT TO FAAST)
- NOE- A paper was submitted to FAAST that shows what would be on the NOE, but we need to verify that it was submitted. Please show proof that an NOE was filed with the State Clearinghouse and the County Clerk.

Please submit all except the cultural report to FAAST. The cultural report will contain some information that is confidential, so it should be sent directly to us.

Let me know if you have any questions or if there is anything you would like to discuss.

Dave



David M. Houston, P.E.

Water Resource Control Engineer
Division of Financial Assistance, Water Recycling Funding Program
State Water Resources Control Board
1001 "I" Street, 16th Floor, Sacramento, CA 95814
(916) 322-6042 | david.houston@waterboards.ca.gov



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