

**EXECUTIVE OFFICER'S REPORT**

**5/6 DECEMBER 2019**

**California Regional Water Quality Control Board  
Central Valley Region**

**Patrick Pulupa, Executive Officer**



## ITEMS IN THIS REPORT

SUCCESS STORIES .....	3
STAFF RECOGNITION.....	9
ENFORCEMENT.....	12
SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS.....	15
DELTA ACTIVITIES .....	20
TMDL BASIN PLANNING .....	25
SALINITY AND CV SALTS .....	28
SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP).....	29
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).....	31
DAIRIES/CONFINED ANIMAL FACILITIES.....	32
OIL FIELDS.....	33
IRRIGATED LANDS REGULATORY PROGRAM.....	40
NON-POINT SOURCE (NPS).....	48
CANNABIS.....	49
CYANOBACTERIA BLOOMS UPDATE.....	50
GRANTS .....	51
PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH .....	54
GENERAL UPDATES TO THE BOARD .....	56
PERSONNEL AND ADMINISTRATION.....	58
FUTURE BOARD ACTIVITIES .....	63
SIGNIFICANT CENTRAL VALLEY WATER BOARD PLANS, PERMITS & POLICIES UNDER DEVELOPMENT .....	65

(An asterisk in this document denotes “Outreach to Disadvantaged Communities” or “Outreach to Tribes”)

## **SUCCESS STORIES**

### **ENFORCEMENT**

On 21 October 2019, the Executive Officer signed a Settlement Agreement with the Roest Family Dairy in Stanislaus County to resolve a November 2017 discharge of dairy wastewater to the Curtis Drain which flowed into the Modesto Irrigation District Main Drain. The Main Drain flows into Miller Lake. The discharge occurred when a lift pump which pumps dairy flush water to the storage lagoon became clogged, causing the waste water to backflow and enter the Curtis Drain through a slide-gate in the adjacent field which had been left open after a fresh water irrigation earlier in the week. Under the terms of the Agreement, Roest Family Dairy has agreed to pay \$70,980 to resolve Administrative Civil Liability R5-2018-0520.

On 5 November 2019, the Executive Officer signed a Settlement Agreement with the Carlos C. Lourenco Dairy in Merced County to resolve an October 2017 discharge of dairy wastewater from dairy cropland into Black Rascal Creek. Black Rascal Creek is a tributary to the San Joaquin River. The discharge occurred through an open valve during a wastewater irrigation event. Under the terms of the Agreement, Carlos C. Lourenco Dairy has agreed to pay \$75,000 to resolve Administrative Civil Liability R5-2019-0505.

### **SITE CLEANUPS**

#### **UNION PACIFIC RAILROAD COMPANY, DUNSMUIR RAILYARD, NORTH FUELING FACILITY, SISKIYOU COUNTY**

Central Valley Water Board staff are working with the Union Pacific Railroad Company (UPRR) in its efforts to comply with the requirements of Cleanup and Abatement Order R5-2019-0713, issued on 11 June 2019. UPRR completed the River Investigation portion of the Comprehensive Site Investigation in October 2019 and is awaiting analytical results of pore water, sediment, and surface water sampling. The goal of the River Investigation is to delineate and characterize petroleum impacts in the Sacramento River. UPRR submitted a draft Comprehensive Site Investigation Work Plan for the upland and riparian areas of the site on 15 October 2019 which is being reviewed by staff. UPRR anticipates commencing the upland/riparian investigation in Spring 2020. UPRR submitted the final Interim Non-Aqueous Phase Liquid (NAPL) Control Plan on 13 September 2019 which staff approved on 16 October 2019. UPRR began implementing the plan in mid-October and will be installing an oleophilic bio-barrier (OBB) geocomposite material along approximately 880 feet of retaining wall and walkway adjacent to the Sacramento River to control petroleum sheens and encourage biodegradation. The OBB installation will be completed in November 2019. Absorbent booms will be used to capture oil that bypasses the barrier.

The barrier will be monitored to assess its performance and will be in place for several years until the final remedy is selected and implemented. (Contact: Jason Schroeder at (530) 224-4788.)

**FORMER SHASTA PULP AND PAPER MILL (WINNEMUCCA TRADING COMPANY), SHASTA COUNTY**

Central Valley Water Board staff are providing oversight for an investigation of the potential water quality threats associated with the former Shasta Pulp and Paper Mill site. Field work is being conducted by a State Water Resources Control Board contractor with Site Cleanup Subaccount Program (SCAP) funds. Because the Discharger is unresponsive, staff obtained site access via a forcible entry inspection warrant issued by a Shasta County Superior Court judge. The warrant's multi-week duration is unprecedented in Shasta County. Planned investigative tasks include a soil vapor survey, soil sampling, groundwater grab-sampling, installation and sampling of

24 monitoring wells and 2 supply wells. Installation and sampling of 64 soil vapor probes will commence in early November 2019. Soil sampling from 32 borings and groundwater grab sampling from 16 borings will immediately follow the soil vapor sampling. (Contact: Bill Bergmann at (530) 224-4852)

**LYONDELL ENVIRONMENTAL CUSTODIAL TRUST, BULLY HILL AND RISING STAR MINES, SHASTA COUNTY**

The Bully Hill and Rising Star Mines are abandoned copper mines located in remote, steep terrain along the Squaw Creek arm of Shasta Lake. Acid mine drainage from the mines impacts watersheds that are tributary to Lake Shasta. The mines have been undergoing stabilization and remediation for more than 20 years. In 2009, the Lyondell Environmental Custodial Trust (Trust) was established to fund remediation efforts at the mine sites. For 2019, the Trust funded a site strategy study, hydrology and hydraulics reviews of the mine sites, and operation and maintenance activities. The site strategy study and hydrology and hydraulics reviews are expected to be submitted for staff review by late November. The site strategy study will be used to support decisions regarding additional site stabilization projects to be implemented prior to depletion of the funds managed by the Trust. (Contact: Stacy Gotham at (530) 224-4993)

**DEVELOPMENT, FORMER SOUTHERN PACIFIC SACRAMENTO RAILYARDS, 501 JIBBOOM STREET, SACRAMENTO, SACRAMENTO COUNTY**

Remediation has been ongoing at the Railyards Site since the 1990's. The current landowner Downtown Railyard Venture, LLC (DRV) is moving forward with Site development during the final stages of remediation. With the announcement of Sacramento Republic into the Major League Soccer (MLS), by February 2022, portions of the Site will be developed into the Sacramento Republic soccer stadium including additional streets, sidewalks, plazas, and a light rail station to accommodate the soccer stadium. Other on-going Site developments include the Kaiser Hospital, County Courthouse, and office and housing projects.

**FORMER A-1 PLATING COMPANY AND FORMER CAPITAL CITY PLATING WORKS, 1721 16TH STREET AND 1730 17TH STREET, SACRAMENTO, SACRAMENTO COUNTY**

In 2018, JB Management Company, LP excavated and disposed of lead-impacted soil from the property that formerly included metal plating and auto repair businesses. Groundwater was not impacted by the lead contamination. Low concentrations of volatile organic compounds (VOCs) from off-site sources were also found beneath the property. Potential vapors from the off-site VOCs will be mitigated as part of future site development. A no further action determination letter was issued on 16 October 2019.

**UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED**

Following are sites where Board staff concluded that residual hydrocarbons do not pose a threat to human health and safety or anticipated future beneficial uses of water. This decision is generally based on site-specific information provided by the responsible party and assumes that the information provided was accurate and representative of site conditions. Most of these cases have been evaluated in accordance with criteria in the State Water Board's Low-Threat Underground Storage Tank (UST) Case Closure Policy (Low-Threat Closure Policy). Upon completion of corrective action, section 2728(d)(2) of Title 23 of the California Code of Regulations requires public notification that corrective action has been completed and the regulatory agency does not intend to require additional investigation and cleanup. This document serves to provide public notification for the completion of corrective actions.

For more information regarding a site, the appropriate office personnel should be contacted: Fresno (559) 445-5116, Redding (530) 224-4845, and Sacramento (916) 464-3291.

**FRESNO**

**7-ELEVEN #37943, 33190 HUBERT WAY, KETTLEMAN CITY, KINGS COUNTY**

An Unauthorized Release Report was filed by the local agency in October 2017, following product piping and dispenser upgrades, and the case was referred to the Central Valley Water Board for regulatory oversight. Based on soil investigations in March and August 2018, and February 2019, approximately 11,600 gallons of diesel range petroleum hydrocarbons remain in soil. Groundwater is at a depth of greater than 200 feet below ground surface (bgs) and is not affected by this release. The remaining hydrocarbons are expected to continue to degrade naturally and not likely to pose a threat to human health and safety or the environment. The site is currently an operating station. A case closure letter was issued on 9 October 2019 in accordance with the Low-Threat Closure Policy.

**DODSON'S TEXACO, 1257 PARK BOULEVARD, ORANGE COVE, FRESNO COUNTY**

An Unauthorized Release Report was filed in March 1998 by the local agency following removal and upgrade of three USTs and associated dispensers and product piping. The case was subsequently referred to the Central Valley Water Board for regulatory oversight. Soil and groundwater investigations were conducted from April 2010 through May 2018. Remediation began on the Site in October 2011 when a successful soil vapor extraction (SVE) pilot test was conducted. From February 2014 through January 2017, SVE and air sparge removed an estimated 13,450 pounds (2,190 gallons) of petroleum hydrocarbon constituents. The remaining hydrocarbons are not likely to pose a threat to human health and safety or the environment and water quality objectives should be met in a reasonable time. The site remains an operating station. A case closure letter was issued on 1 October 2019, in accordance with the Low-Threat Closure Policy.

**FORMER R. L. FRAKES, 620 EAST CENTER AVENUE, VISALIA, TULARE COUNTY**

The facility currently operates as an auto body paint shop. In 1988, two 550-gallon USTs were removed. Analytical results of soil samples indicated elevated concentrations of petroleum constituents. In July 1996 with direction by Tulare County Environmental Health, initial monitoring began from a groundwater monitoring well. Analytical results indicated elevated concentrations of petroleum constituents in groundwater. In 2013 the case was referred to the Central Valley Water Board for regulatory oversight. In November 2015, the monitoring well was dry and a deeper replacement well installed. Petroleum constituents were detected in soil from 25 - 65 feet bgs. In May 2016, analytical results of a groundwater sample indicated low petroleum constituent concentrations. Additional groundwater analytical results for petroleum constituents were non-detect during 2017 and 2018.

Remediation by soil vapor extraction was operated from September 2018 through March 2019 which removed about 3,000 pounds (490 gallons) of gasoline from subsurface soils. In March 2019, a Remediation Summary Report issued by the Cleanup Fund technical staff stated the site met the criteria in the Policy and requested closure.

The case closure is based on the Central Valley Water Board staff's conclusion that the case satisfies the criteria contained in the Policy. All technically and economically feasible cleanup has been completed. The limited residual petroleum hydrocarbons that remain should not pose unacceptable risk to human health, safety and the environment and should continue to degrade naturally. The case met the criteria of the Low-Threat Closure Policy and was closed on 25 September 2019.

**SEQUOIA GROCERY, 30783 SIERRA DRIVE (STATE HIGHWAY 198), EXETER,  
TULARE COUNTY**

A gasoline UST release was discovered in 2004 during removal of three USTs, fuel dispensers and associated piping. The case was subsequently referred to the Central Valley Water Board by the local agency for regulatory oversight. Soil and groundwater investigations were conducted from May 2006 through February 2017. SVE and air sparging removed about 53,000 pounds (8,600 gallons) of gasoline constituents. A small community water system, including a deeper supply well, was installed to serve residents with affected domestic wells. Gasoline constituents were not detected in domestic wells during the last three to four years of monitoring. Additional SVE was conducted to mitigate health risk from contaminants remaining in shallow soil. The site currently is not an operating station and contains a store. The remaining hydrocarbons are not likely to pose a threat to human health and safety or the environment and water quality objectives should be met in a reasonable time frame. A case closure letter was issued in accordance with criteria in the Low-Threat Closure Policy on 15 October 2019.

**SACRAMENTO**

**SUNNY'S FOOD MART, 2101 WEST RUMBLE ROAD, MODESTO, STANISLAUS  
COUNTY**

The Site is currently an active gasoline and diesel service station within a small strip mall. In July and November 2017, a direct-bury spill bucket associated with a UST storing unleaded gasoline failed testing. On 5 February 2018, Donlee Pump Company replaced the failed spill bucket and collected a soil sample from approximately 2.5 feet bgs beneath the spill bucket. The sample contained 8,900 milligrams per kilogram (mg/kg) gasoline-range petroleum hydrocarbons (TPHg), 9.05 mg/kg benzene, 148 mg/kg toluene, 94.3 mg/kg ethylbenzene, 479 mg/kg xylenes, and 3,550 mg/kg ethanol. On 13 June 2019, a second soil sample was collected approximately 6 feet west of the spill bucket at a depth of 5.5 feet bgs. Petroleum hydrocarbon constituents were not detected above laboratory detection limits in this sample. Central Valley Water Board staff concluded that petroleum hydrocarbon mass was limited to the upper 5.5 feet of soil and that groundwater was not threatened. The case was closed on 2 October 2019.

**L AND E AUTO SHORT PROPERTY, 1411 YOSEMITE BOULEVARD, MODESTO,  
STANISLAUS COUNTY**

The Site is currently an automobile service facility located on the northwest corner of La Loma Avenue and Yosemite Boulevard in Modesto, Stanislaus County. In March 1989, a 500-gallon waste oil UST and three gasoline USTs ranging in size from 4,000 gallons to 8,000 gallons were removed from the Site. SEMCO excavated impacted soil to approximately 19 feet below ground surface to remove affected soil. Soil and groundwater samples collected from the Site well indicated that the unauthorized release had impacted soil and groundwater at the Site. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. Petroleum hydrocarbons have not been detected in

the Site's three groundwater monitoring wells above the laboratory detection limits other than TPH-g, which AGE states is a result of high concentrations of tetrachloroethene (PCE) from the nearby Service Cleaners site. No water supply wells, or surface water bodies have been identified within the vicinity of the Site. Therefore, any remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate and Central Valley Water Board staff concurs with AGE's recommendation for regulatory closure in accordance with the Low Threat Closure Policy. This Site was closed on 15 October 2019.

### **FORMER DARPETRO STATION, 2434 WEST CAPITOL AVENUE, WEST SACRAMENTO, YOLO COUNTY**

The Site is currently an independently owned and operated, Exxon branded service station, with two dispenser islands, a canopy, and a convenience store. In 1993, Beneto Oil Company, Inc (Beneto) removed three 12,000-gallon USTs from the Site. Beneto reported soil and groundwater from the UST basin contained TPHg and BTEX. Between 1993 and 2014, Beneto investigated petroleum hydrocarbons impacts to soil and groundwater on and off Site. Remediation at the Site included removing 150 cubic yards of total petroleum hydrocarbon impacted soils, injecting 369 gallons of hydrogen peroxide solution; reducing hydrocarbons mass, and the monitoring of natural attenuation. Beneto concluded the extent of petroleum hydrocarbons remaining in soil and groundwater beneath the Site is defined and stable. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on 6 September 2019.

### **INTERSTATE OIL CARDLOCK, 3022 EVERGREEN AVENUE, WEST SACRAMENTO, YOLO COUNTY**

The Site is an operating Pacific Pride cardlock station located in a commercial area of West Sacramento, just north of Interstate 80. In 2004, Interstate removed four single-walled steel diesel and gasoline USTs and replaced them with fiberglass USTs. Soil samples collected from the USTs basin, sidewalls and dispensers contained petroleum hydrocarbons in soil and groundwater. Since 2004, Interstate has completed soil, groundwater and soil gas investigations to define the extent of petroleum hydrocarbons remaining in soil and groundwater. Remediation at the Site included monitored natural attenuation and the removal of approximately 1,500 cubic yards of TPH impacted soil. Interstate concludes the extent of petroleum hydrocarbons remaining in soil and groundwater beneath the Site is defined and relatively stable. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on 10 October 2019.

## **LOCAL AGENCY UST CLOSURES WITH CONCURRENCE OF BOARD STAFF**

- Arco Station #4398, 3921-Watt Avenue, Sacramento
- Lincoln and C Street, 227 Street, Lincoln Way, Galt

## **REDDING**

### **EAGAN PROPERTY, UST CASE 450351, SHASTA COUNTY**

The Site is a former service station dating to the 1950s. Shasta County Environmental Health Division (County) discovered two former vent pipes related to the former UST system during an inspection in 1992. The property owner applied for a UST removal/closure permit but did not remove the USTs under County supervision. The County was never able to locate the USTs and the property was redeveloped by the current owners in 2005. The current owners attempted to locate the USTs when redeveloping the property but found no USTs. The County referred the case to the Central Valley Water Board in June 2013. The project stalled because the current owners lacked funds to complete an investigation and were ineligible for available funding sources. During March 2019, staff observed the excavation of two test pits in the immediate vicinity of the former UST system and collected soil and groundwater samples for analysis by the Central Valley Water Board's contract laboratory. All samples were non-detect for total petroleum hydrocarbons as diesel (TPH-d); total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, and xylenes (BTEX); fuel oxygenates including methyl tert-butyl ether (MTBE); naphthalene; 1,2-dichloroethane; and 1,2-dibromoethane. Staff closed the case in October 2019.

## **STAFF RECOGNITION**

### **EMPLOYEE RECOGNITION AWARDS SEPTEMBER THROUGH OCTOBER 2019**

**Employee:** Dave Kirn  
**Unit:** NPDES Permitting  
**Location:** Sacramento Office  
**Title:** Water Resource Control Engineer  
**Supervisor:** Josh Palmer

Dave is an Engineer in the Sacramento Point Source Permitting Unit. He is being recognized for his outstanding work performance in the NPDES permitting section. In 2017, after two years of hard work from Dave, the Municipal General Order was adopted by our Board. His outstanding work on the Municipal General Order included revising the permit based on several directional changes, orchestrating workshops to get stakeholders involved, and then responding to the significant amount of comments from the concerned stakeholders he helped get involved. Once the Municipal General Order was adopted, Dave created a Notice of Applicability template, which is the document used by permit writers to enroll treated wastewater discharges under the

Municipal General Order. The template has been well received by Dischargers for its usability and simplicity. Without Dave, the NPDES Municipal General Order program would not be what it is today thanks to his hard work, dedication, thoughtfulness, and attention to detail.

Furthermore, when another staff member from the unit recently took a promotion, Dave stepped up and took on additional work, all while keeping up with the requirements of his own workload. Also, for the past two years and this year he volunteered to take on an additional permit from the Redding Office, which has helped them alleviate their backlog. For these reasons Dave is a valuable member of our organization and he is incredibly deserving of the Employee Recognition Award.

**Employee:** Omar Mostafa  
**Unit:** Compliance/Enforcement  
**Location:** Fresno Office  
**Title:** Water Resource Control Engineer  
**Supervisor:** Russell Walls

Omar is a water resource control engineer in the Central Valley Water Board's Fresno Office, as part of the Compliance/Enforcement Unit. Omar is receiving this award because during the month of August he completed three notice of violation letters, investigated three sanitary sewer overflows and one on-site wastewater release, completed a joint inspection with a County representative regarding an illegal discharge, attended an afterhours disadvantaged community public meeting regarding odor complaints on a regulated facility, and inspected six wastewater treatment facilities as part of an odor complaint.

Since joining the Unit in March 2016, Omar has become a valuable asset to the group. In addition to his excellent attitude and professional demeanor, Omar willingly and enthusiastically works on any project he is given. He has shown himself to be a quick learner becoming very knowledgeable in the CIWQS database, Non15 program, and sanitary sewer overflow program. His investigations and reviews are thorough and complete. His draft documents require minimal editing and his technical knowledge is excellent.

**Employee:** Eric Rapport  
**Unit:** WDR Unit  
**Location:** Redding Office  
**Title:** Senior Engineering Geologist, Specialist  
**Supervisor:** Bryan Smith

Eric Rapport has been selected to receive this Employee Recognition Award for his contributions to the Redding office, the Central Valley region, and across the State Water Board and other Regional Boards. Eric's technical and leadership contributions have benefited all. Eric has worked in staff and senior specialist roles as an Engineering Geologist in the Redding office since 2000. Most recently he has led the Region's implementation of State Water Board's Onsite Waste Treatment Systems (OWTS)

Policy. This work involved tracking, assisting, and reviewing new plans and ordinances developed by over 30 environmental health departments across the Region. Seeing the need for guidance and consistency, Eric worked with the California Conference of Directors of Environmental Health (CCDEH) to develop templates, checklists, and other resources to assist both the development and review of required plans. As Eric's hard work kept the Region ahead of the curve with respect to the rest of the state, these tools and communications channels were made available to benefit others still working through the process.

The significant amount of Central Valley Water Board work involved with this effort required assistance from WDRs program staff in our three offices, with Eric providing training and assistance as needed. Eric is now planning for significant future OWTS Policy deliverables by developing guidance, checklists, and resource estimates, with the goal of ensuring the program is successful and results in prioritized attention to identified water quality problems.

Beyond his work on the OWTS Policy, Eric has a passion for mentoring others, and assisting to provide rigorous, science-based analysis of challenging water quality protection cases. Numerous groundwater investigations, cleanups, and other actions have benefitted from his involvement.

In his 20 years with the Water Boards, Eric has been highly reliable, and has excelled at completing difficult case work, while also providing outsized contributions to the Board. We are happy to provide this recognition of his hard work and dedication.

**Employee:** My Nai  
**Unit:** SWAMP  
**Location:** Sacramento Office  
**Title:** Scientific Aid  
**Supervisor:** Anne Walters

My Nai is a highly valued member of the Planning Section and she is being recognized for her tireless efforts supporting the SWAMP Program.

My is a hard-working and positive team member who has greatly exceeded expectations by taking on the workload created by several vacant Scientific Aid positions. All summer, My served as the field lead for SWAMP's weekly sampling of E. coli levels in the Lower American River. She also provided additional support for other SWAMP studies and she is often out sampling several days a week. My diligently prepares for and implements the sampling protocols, and even the triple-digit days don't slow her down. When she gets back to the office, she quickly and efficiently processes the water samples in our in-house laboratory to ensure that the E. coli results are available to the public via our online map portal within a day later. My has also been putting the lab's new autoclave through its paces by running the backlog of contaminated quantitray through the sterilization process so that they can be safely disposed. My is a quick learner and is careful to follow proper quality assurance procedures. She has gone from SWAMP "newbie" to veteran in record time, and other

staff have come to rely on her expertise. SWAMP would not have been able to fulfill its many sampling obligations this summer without My's help.

My takes on every task she is assigned with enthusiasm, initiative and a great attention to detail. We are fortunate to have My working at the Central Valley Water Board and

**Employee:** Greg Issinghoff  
**Unit:** Irrigated Lands Regulatory Program  
**Location:** Fresno Office  
**Title:** Engineering Geologist  
**Supervisor:** David Sholes

Greg joined the Irrigated Lands Regulatory Program unit less than a year ago and has become an integral part of the unit, exhibiting excellent interpersonal skills and mature judgement. During the past month Greg's accomplishments included:

- Review of Surface Water Monitoring Plans for the Kings Coalition
- Review and letter regarding an extension request by the Kern Coalition for their Surface Water Monitoring Plan
- Review of Kings Coalition trend monitoring data and comparison to a similar USGS data set
- Review of Kern Coalition trend monitoring data and comparison to a similar USGS data set
- Assisting Rancho Cordova staff in review of the West San Joaquin Coalition's and East San Joaquin Coalition's Trend Monitoring Work Plans

Greg has been instrumental in the process for reviewing coalition reports from across the Region that require review by a geologist in responsible charge, in mentoring Scientific Aides, and in establishing a smooth working relationship with coalition representatives.

For the reasons stated above, Greg is deserving of the Employee Recognition Award.

## **ENFORCEMENT**

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action. This section of the Executive Offer's Report (EO Report) is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of all enforcement actions issued.

## ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil Liability (ACL) Orders and Complaints) that have been issued by the Central Valley Central Valley Water Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

### ENFORCEMENT TABLE 1 – CENTRAL VALLEY ENFORCEMENT ORDERS (16 AUGUST 2019 THROUGH 30 SEPTEMBER 2019 )

Action Date	Agency	County	Notes
8/27/2019	City of Manteca	San Joaquin	ACL R5-2019-0531 was issued in the amount of \$66,000 addressing mandatory minimum penalties (MMPs) for effluent limit violations.
8/30/2019	DLC Rocklin	Placer	ACL Order R5-2019-0523 in the amount of \$153,460 was issued to DLC Rocklin for violations of the Storm Water Construction General Permit at the Granite Bluff construction project
9/09/2019	Grass Valley	Nevada	ACL Order R5-2019-0509 was issued in the amount of \$111,000 addressing MMPs for effluent violations. The Order suspended \$105,000 of penalty for completion of a compliance project and the Discharger agreed to pay the remaining \$6,000.
9/09/2019	Mountain House	San Joaquin	ACL R5-2019-0531 was issued in the amount of \$138,000 MMPs for effluent limit violations.

## ENFORCEMENT UPDATE

Enforcement Table 2 included below, summarizes the enforcement actions issued in all the Regions for period between 16 August 2019 through 30 September 2019. From a statewide perspective, Region 5 is responsible for 53% of the enforcement actions tracked in CIWQS during this period including 100% of all 13267 Orders, 40% of all ACLs, 55% of all NNC, and 59% of all NOV.

**ENFORCEMENT TABLE 2 – STATEWIDE ENFORCEMENT ACTIONS IN CIWQS  
(16 AUGUST 2019 THROUGH 30 SEPTEMBER 2019)**

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	0	2	0	0	0	16	0	0	0	0	18
2	0	0	0	0	0	1	0	0	2	0	0	3
3	0	19	0	0	0	0	4	0	0	0	0	23
4	0	55	3	0	0	2	8	0	0	0	0	68
5F	5	0	0	0	0	0	9	0	3	0	1	18
5R	2	0	0	0	0	0	5	0	0	0	0	7
5S	3	241	4	0	0	0	30	0	0	0	7	285
R5 Total	10	241	4	0	0	0	44	0	3	0	8	310
6T	0	0	0	0	0	0	0	0	2	0	1	3
6V	0	0	0	0	0	0	0	0	0	0	2	2
7	0	18	1	0	0	0	1	0	1	0	0	21
8	0	107	0	0	0	1	1	0	0	0	6	115
9	0	0	0	0	0	1	4	0	13	0	0	18
Total	10	440	10	0	0	5	78	0	21	0	17	581

**ENFORCEMENT ACTIONS:**

**ENFORCEMENT ACTIONS AND ABBREVIATIONS:**

- VER - Verbal Communication
- SEL - Staff Enforcement Letter
- NOV - Notice of Violation
- NNC - Notice of Non-Compliance
- 13267 - Water Code Section 13267 Investigation Order
- TSO - Time Schedule Order
- CAO - Cleanup and Abatement Order
- EPL - Expedited Payment Letter
- ACL - Administrative Civil Liability
- NTC - Notice to Comply

In addition to the above, the following enforcement actions were recorded in GeoTracker and not in CIWQS:

**ENFORCEMENT TABLE 3 - REGION 5 ENFORCEMENT ACTIONS IN GEOTRACKER (16 AUGUST 2019 THROUGH 30 SEPTEMBER 2019)**

Office	13267 Order	NTC	NOV	VER	Total
5F	1	0	4	1	6
5R	1	0	1	0	2
5S	1	1	1	9	12
<b>Total R5</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>10</b>	<b>20</b>

Finally, the Central Valley Water Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement action data to the CIWQS or GeoTracker databases. A summary of those enforcement actions is included in Table 4, below.

**ENFORCEMENT TABLE 4 -REGION 5 ILRP ENFORCEMENT ACTIONS (16 AUGUST 2019 THROUGH 30 SEPTEMBER 2019)**

Office	Water Code Section 13260 Letter/Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Totals
Fresno	0	65	0	65
Sacramento	401	2	181	584
Total	401	67	181	649

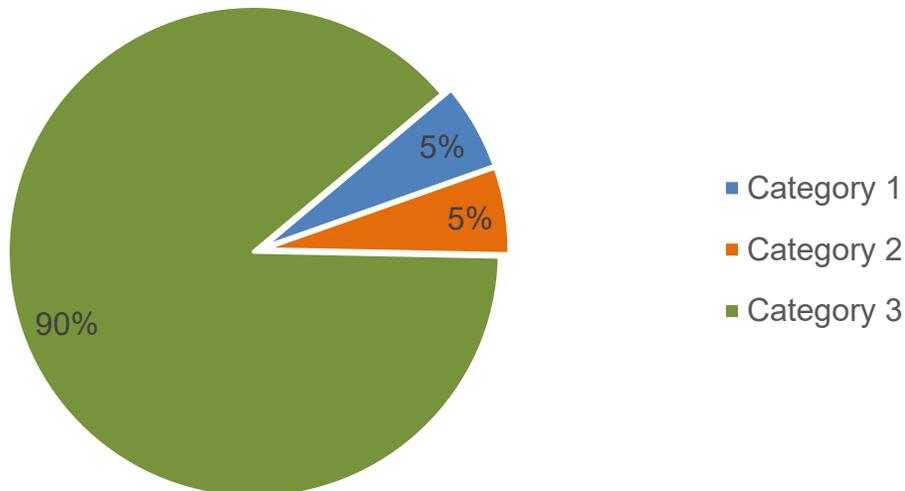
**SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS**

Statewide General Waste Discharge Requirements for Sanitary Sewer System (SSS General Order) 2006-003-DWQ requires enrollees to submit SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spill to surface waters. For period between 16 August 2019 through 30 September 2019, there were no reported SSO incident in which 50,000 gallons or greater spilled reached surface water.

For the reporting period between 16 August 2019 through 30 September 2019, there were 83 total SSO spills: 4 Category 1, 4 Category 2, and 75 Category 3 spills. SSO Summary Data.

## SSO SUMMARY DATA

Total Sanitary Sewer Overflow  
From 16 August 2019 through 30 September 2019



**Figure 1:** For the reporting period between 16 August 2019 through 30 September 2019, there were 83 total SSO spills: 4 Category 1, 4 Category 2, and 75 Category 3 spills.

## ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOS including the current Monitoring and Reporting Program (MRP) can be found at the [State Water Board's webpage](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html). (https://www.waterboards.ca.gov/water\_issues/programs/sso/index.html). Sewage Collection Agencies report SSOS online at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

## COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Central Valley Water Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 16 August 2019 through 30 September 2019, Central Valley Water Board staff have received a total of **35 complaints** from phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (https://calepacomplaints.secure.force.com/complaints/). To date, 30 (86%) complaints have been investigated and closed or referred to other environmental enforcement agency. Investigations for **5** complaints remain ongoing.

## PERFORMANCE TARGETS

Performance measurement and reporting is an important component of a complete system of performance management and is needed to demonstrate how well programs or strategies are working. Information obtained through better performance measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs.

To this end, the Water Boards establish annual performance targets for key output measures. In effect, these targets are goals that establish measurable levels of performance to be achieved within a specified time period. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the [Resource Alignment Evaluation Report](#)

([https://www.waterboards.ca.gov/about\\_us/docs/resource\\_alignment\\_report.pdf](https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)) and was used to develop the FY 2019-2020 performance targets below is the Central Valley Water Board's Performance Measurement Summary for the 2019-2010 fiscal year. This report was produced for the 2019-2020 fiscal year.

### ENFORCEMENT TABLES 5A-5E - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY 1 JULY 2019 THROUGH 30 SEPTEMBER 2019

#### NPDES Wastewater – Table 5a.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Individual Facilities Inspected	29	0	0%	NA	0
Minor Individual Facilities Inspected	9	0	0%	NA	0
Minor General Enrollees Facilities Inspected	0	0	0%	NA	0

**Waste Discharge to Land – Wastewater – Table 5b.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	46	34%	NA	51

**Land Disposal – Table 5c.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Landfill Inspections	113	26	26%	NA	29
All Other Inspections	23	4	22%	NA	5

**NPDES Storm Water – Table 5d.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Stormwater Construction Inspections	385	65	17%	NA	67
Stormwater Industrial Inspections	195	48	25%	NA	48
Stormwater Municipal Inspections	0	3	NA	NA	3

**Other Programs – Table 5e.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Forest Activities Inspections	166	77	47%	NA	78
Confined Animal Facility Inspections	275	24	9%	NA	25

**ENFORCEMENT TABLES 6A-6D - REGION 5 PERMIT PERFORMANCE MEASUREMENT SUMMARY FROM 1 JULY 2019 THROUGH 30 SEPTEMBER 2019**

**NPDES Wastewater – Table 6a.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
Major Individual Permits Issued, Revised, and Renewed	9	1	11%	NA	1
Minor Individual Permits Issued, Revised, and Renewed	6	0	0%	NA	0

**Waste Discharge to Land – Wastewater – Table 6b.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	23	28	122%	NA	NA

**Land Disposal – Table 6c.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Landfills Permits Issued, Revised, and Renewed	13	1	8%	NA	1
All Other Permits Issued, Revised, and Renewed	2	0	0%	NA	0

**Clean Up – Table 6d.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/Ori ginal Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
New DoD Sites into Active Remediation	6	5	83%	NA	5
New SCP Sites into Active Remediation	50	12	24%	NA	12
Cleanup Program Sites Closed	60	8	13%	NA	8
New UST Sites into Active Remediation	25	7	30%	NA	7
Underground Storage Tank Sites Closed	68	18	26%	NA	18

## **DELTA ACTIVITIES**

### **DELTA MERCURY CONTROL PROGRAM**

#### **DELTA METHYLMERCURY TMDL CONTROL STUDIES REVIEW**

The Delta Mercury Control Program (DMCP) and the Sacramento-San Joaquin Delta Methylmercury TMDL requires entities responsible for reducing methylmercury (MeHg) in the Delta to participate in control studies to develop and evaluate methods to manage MeHg. The Central Valley Water Board will use information from these studies, as well as applicable new data and information, and recommendations from an external expert mercury Advisory Panel, to consider revisions to the original Delta TMDL and DMCP. Seven control study final reports have been reviewed; two additional control study reports regarding Open Water Modeling and Tidal Wetlands will be reviewed in 2020.

The Delta Science Program of the Delta Stewardship Council convened an independent scientific peer Review Panel that evaluated the seven submitted control study final reports for adherence to the work plan and scientific validity. The Review Panel's report can be viewed here: <http://www.deltacouncil.ca.gov/pdf/science-program/2019-08-22-delta-methylmercury-review-part-1.pdf>. The Review Panel provided an overall and individual assessment of the studies. Overall, the panel found:

- Work plans were generally followed, but there were concerns over scientific rigor and extrapolation of pilot-scale studies to a larger scale; use caution drawing regional conclusions from the studies
- Impacts and adaptation to a changing climate were not robustly addressed; climate, land-use, and populations changes should be considered in the TMDL revision
- The relative Delta MeHg loading contributions by the studied sources are minimal and, therefore, cannot offset agricultural or tributary loads
- MeHg and inorganic mercury monitoring should be encouraged for updating allocations rather than deeming these sources de minimus
- Not all methylmercury sources have equal or proportional impact; some sinks in the short-term may be sources in the medium- or long-term
- Changes from controls may be not be able to be quantified, they may be masked or localized

The panel could not fully assess whether fish tissue objectives would be met or whether source reductions could offset loads from other sources until the final two control study reports are reviewed.

The Review Panel is expected to reconvene in the summer of 2020 to complete the two additional report reviews and the Advisory Panel is anticipated to convene in the fall of 2020 to provide recommendations on the TMDL review.

## **DELTA MERCURY EXPOSURE REDUCTION PROGRAM**

The Delta Mercury Exposure Reduction Program (MERP) is a collaborative effort of the Central Valley Water Board, the California Department of Water Resources (DWR), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA). It is supported by funds from the Cleanup and Abatement Account and Delta dischargers subject to the Delta Mercury Control Program. The goal of the Delta MERP is to protect public health by reducing exposure to methylmercury in fish caught in the Delta.

MERP staff continued coordination efforts with local entities and other state agencies and continued to post fish consumption advisory sign posting at Delta sites.

In coordination with the Delta Conservancy, staff presented a MERP poster at the 14th State of the San Francisco Estuary Conference in Oakland, CA on October 21-22. While attending the conference, staff met several new contacts for potential program coordination and spoke to many attendees during the poster session.

On Friday, October 25, staff attended the 26th Anniversary Celebration for the Asian Pacific Self-Development and Residential Association (APSARA) and Park Village Apartments. Staff provided an informational booth to distribute MERP materials and to gather feedback from community members on a draft brochure. Staff spoke to over 40 families and distributed other program materials including magnets, placemats, info sheets, and stickers to apartment residents and community members attending the celebration.

\*Staff also attended the 40th annual UC Berkeley Powwow on October 26. This student-led event is presented by the Indigenous and Native Recruitment & Retention Center (INC-RRC) and Inter-Tribal Student Council at UC Berkeley. This event serves as an opportunity for Native programs on campus, along with various Native tribal populations throughout California to unite and honor Native American cultures. Staff provided an informational booth to distribute MERP materials, gather additional feedback on the draft brochure, and conduct outreach to participating tribes. Staff spoke to nearly 140 community members and their families at this event.

## **DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)**

On 27 September the Delta RMP Pesticides and Toxicity subcommittee met and discussed results from recent monitoring, analysis of potential causes of toxicity in recent water sample tests, the development of a Request for Qualifications (RFQ) for laboratory toxicity testing services, and the process for toxicity lab selection. The group also marked the completion of the first year of monitoring under the new pesticides and toxicity monitoring design, which focuses on different Delta sub regions in each year and will cover the entire Delta in 4 years.

On October 4, the Governance Subcommittee meet to identify solutions for the current internal challenges facing the program and to determine if the Charter or program structure should be changed.

On 11 October the Delta RMP Technical Advisory Committee met via phone to discuss revising and finalizing the Request for Qualifications (RFQ) for laboratory toxicity testing services.

On October 18, the Delta RMP Finance Subcommittee meet to discuss program finances in preparation for the Joint SC-TAC meeting on October 29.

The Delta RMP Steering Committee (SC) and Technical Advisory Committee (TAC) met for the annual Joint Meeting on October 29th to follow up on planning needs identified during the Long-Term Planning Meeting in July and to discuss current and future program work plans and to decide on budgets associated with each work plan. The SC

approved funding for the first year of a study of Contaminants of Emerging Concern (CECs). The SC also approved the release of a Request for Qualifications for laboratory toxicity testing in support of the ongoing pesticides and toxicity monitoring study. At the Joint meeting, staff gave a presentation summarizing main points from the Board memo dated August 30, 2019 titled, "Guidance for Developing Supplemental Environmental Projects (SEPs) for the Delta Regional Monitoring Program". The group discussed potential priority projects that are currently unfunded that may be eligible for Delta RMP SEP funding.

In October 2019 Board staff completed a draft memorandum summarizing a comparison of recent RMP observed algal toxicity and available pesticide and metals chemistry data.

## **DELTA NUTRIENT RESEARCH PLAN**

The Delta Nutrient Research Plan (accepted August 2018) identifies information gaps for evaluating water quality objectives for nutrients in the Delta. Efforts are now focused on filling the information needs through special studies, monitoring, and numeric modeling.

### **STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES**

Development and testing of a hydrodynamic and biogeochemical model for the Delta and Suisun Bay is ongoing. The Water Boards and Delta RMP are among entities funding the San Francisco Estuary Institute for this work. Hydrodynamic modeling of two selected water years (2011 and 2016) is nearly complete. For the biogeochemical components, the modeling team is currently working on optimizing phytoplankton production (as chlorophyll) and loss (primarily clam grazing).

- Staff are continuing monthly monitoring of nutrients in Discovery Bay with assistance from the Discovery Bay Community Foundation.
- Staff is seeking sources of data and funds to assess harmful cyanobacteria in the Delta. A grant agreement for a Prop 1 grant received by the Central Valley Water Board for algal toxin monitoring was unable to be finalized. Staff expects that the grant award will be returned to the Prop 1 administering agency, Dept. Fish and Wildlife.
- The Delta RMP's Nutrient Subcommittee is continuing to meet jointly with the Delta Nutrient Research Plan Stakeholder and Technical Advisory Group. The next meeting is 14 November.
- Data collection for the Sacramento River Nutrient Change Study Phase 1 occurred in mid-September. This study takes advantage of a 48-hour wastewater hold at the Regional San WWTP to evaluate effects of the short-term change in nutrients on phytoplankton and other parameters in three channels downstream

of the WWTP. The project is funded by the Delta RMP, Regional San, USBR, and USGS.

## **SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION**

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From 31 August to 29 October 2019, there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

On 14 August the Executive Officer sent letters to three additional parties who were identified in the TMDL as contributing to the dissolved oxygen impairment, but who are not currently part of the aeration agreement. The letters instructed these parties to provide a plan describing actions to mitigate potential impacts on net oxygen demand in the DWSC, which could include participation in the voluntary funding agreement for the aeration facility. Staff are currently following up with these parties.

More information on the SDWSC/SJR dissolved oxygen [TMDL Control Program](#) can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/san\\_joaquin\\_oxygen/index.shtml](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml))

## **OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT**

A White Paper detailing the extent of the dissolved oxygen impairment in Old and Middle Rivers along with contributing factors to the impairment and possible Board actions has been compiled and revised following staff and is being submitted to management.

DWR will be submitting a report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle rivers to the Central Valley Water Board in October 2019 to meet a requirement of the Board's 401 certification. Once staff has reviewed that report, it will be incorporated into the final white paper and circulated for interagency and public comment. The contents of the white paper will be presented to the Board as an informational item at a future Board meeting in 2020.

# TMDL BASIN PLANNING

## PESTICIDE BASIN PLANNING/TMDLS

### CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

On 8 June 2017, the Board adopted a Basin Plan Amendment which established a Control Program for Pyrethroid Pesticide Discharges throughout the Sacramento and San Joaquin River Basins, as well as Total Maximum Daily Loads (TMDLs) for pyrethroid pesticides in certain impaired water bodies. The State Water Board approved the Basin Plan Amendment on 10 July 2018. The Office of Administrative Law (OAL) approved the Amendment on 19 February 2019. On 22 April 2019, USEPA approved The TMDLs in the amendment. The Basin Plan Amendment, including the TMDLs, is now fully approved and effective.

Completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers was originally required 2 years from the date of OAL approval, but this completion date has been extended as described below. Baseline monitoring for municipal or domestic wastewater dischargers will be conducted during their effluent characterization monitoring. The conditional prohibition established in the Control Program by the Amendment becomes effective 3 years from the date of OAL approval.

In July and August 2019, the Executive Officer sent letters to these dischargers clarifying expectations for baseline monitoring and extending the monitoring deadlines for municipal stormwater and agricultural dischargers by eight months to accommodate method development, time needed for monitoring and laboratory contracting, and dischargers annual monitoring cycles. Baseline monitoring for storm water and agricultural dischargers is now due to be completed by 19 October 2021. The letter also clarified that smaller municipal stormwater dischargers could forego baseline monitoring, consider existing data adequately representative, and instead direct resources towards development of a management plan to reduce pyrethroid pesticide discharges. Staff continue to work with dischargers through our regulatory programs to assist in compliance with these new requirements.

Staff also are continuing to work on the development of the Pyrethroid Research Plan which was a Board action identified in the Pyrethroid Control Program to be completed by February 2021. The Research Plan will describe research and studies to inform future iterations of the Control Program. Staff have briefed stakeholders and the Regional Monitoring Program Steering Committee on the development of the research plan and begun to assemble a group of interested experts and stakeholders to develop the plan.

More information is available on the [Central Valley Pyrethroid TMDL and Basin Plan Amendment Website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project_s/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html)

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_project\\_s/central\\_valley\\_pesticides/pyrethroid\\_tmdl\\_bpa/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project_s/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html))

## **DIAZINON AND CHLORPYRIFOS REVIEW**

Staff have completed an internal draft report reviewing diazinon and chlorpyrifos concentration data and other related information in the Central Valley Region. Preliminary results show that the improved practices and reduced uses that have followed the Board's control efforts, Department of Pesticide Regulation's pesticide use regulations, and other regulatory changes, have been effective at reducing concentrations. Concentrations of these pesticides are now nearly always below thresholds of concern. Staff plan on presenting these findings to the Board in early 2020, following a stakeholder review of the draft report and finalization of the report.

## **TRIBAL BENEFICIAL USES DESIGNATION**

On 2 May 2017 beneficial use designations relating to California Native American tribes were established by the State Water Board through Resolution 2017-0027, which adopted Part 2 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California—Tribal and Subsistence Fishing Beneficial Uses and Mercury Provisions. The new beneficial use definitions are Tribal Tradition and Culture (CUL), and Tribal Subsistence Fishing (T-SUB) ("Tribal Beneficial Uses"). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American Tribes. The SUB, T-SUB, and Commercial and Sportfishing (COMM) beneficial uses relate to the risks to human health from the consumption of fish or shellfish. In addition, the definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights.

Through the 2018 Triennial Review, several tribes in the Central Valley have requested that the Central Valley Water Board designate Tribal Beneficial Uses. On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 which approved the 2018 Triennial Review including Tribal Beneficial Uses as a priority project.

Subsequent to the Central Valley Water Board identifying Tribal Beneficial Uses (TBUs) as a priority project, Central Valley Water Board staff initiated a "Tribal Beneficial Uses Working Group" with the other Regions and State Water Board Divisions to facilitate communication on this effort.

\*Board staff have also begun to develop a process for designation of TBU and to solicit input from all the California Native American Tribes in the Central Valley as well as other stakeholders. Board staff hosted a conference call with the Tribes that commented on the 2018 Triennial Review on 1 October 2019 to solicit additional guidance. Board staff are also working with the California Indian Environmental Alliance (CIEA) to facilitate further discussions on TBUs with Tribes in the Central Valley. The Tribal Coordinator for the Central Valley Water Board will be attending a two-day training in November with emphasis on historical knowledge, cultural sensitivity, and "hands on" experience working with California Native American Tribes

## **PIT RIVER EVALUATION**

The 2018 Triennial Review identified Reassessment of Beneficial Uses and Water Quality Objectives in Specific Reaches of the Pit River as a priority project. To support this effort, the Modoc Resource Conservation District (MRCD) plans to gather available temperature-related water quality data and collect additional data where data gaps exist. Board staff recently met with MRCD representatives to discuss the Pit River reassessment project and tour the upper Pit River watershed. Subsequently staff met with the Environmental Director for the Pit River Tribe to provide an update on the meeting with representatives from MRCD and to provide a general timeline of future actions. Central Valley Water Board staff will continue to be in contact with both MRCD and the Pit River Tribe as this reassessment project progresses.

## **BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT**

The State Water Board is developing a statewide water quality objective for biostimulatory substances with a program to protect biological integrity as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California (ISWEBE Plan). The Amendment is expected to include a narrative objective for biostimulatory substances, numeric translators for biostimulatory substances and conditions (e.g., total nitrogen, total phosphorous, and chlorophyll concentrations), and implementation for point and non-point sources. In phase one, the Amendment would apply to wadeable streams, the second phase will apply to lakes and the third phase will apply to estuaries, enclosed bays, and non-wadeable rivers. The phase one ISWEBE Plan amendment will also include components to protect biological integrity (biointegrity) in wadeable streams, including assessment methods, scoring tools, and numeric thresholds to protect biointegrity.

Central Valley Water Board staff continue to attend meetings other Regional Water Boards and State Water Board staff to discuss possible policy configurations. State Water Board staff has indicated a draft Amendment is likely to be released in early to mid-2020. Key decisions to be made include whether numeric or narrative objectives will be adopted for both biostimulatory substances and biointegrity, the scope of water bodies included, and how the policy would be implemented through new or existing programs

## **REGIONAL TEMPERATURE CRITERIA DEVELOPMENT**

The 2018 Triennial Review identified Temperature Criteria and Objectives as a priority project to develop regionally applicable temperature criteria for the Central Valley. The report completed in FY18/19 that assessed the EPA Region 10 temperature criteria applicability for the Central Valley recommended the development of regionally based criteria. Water Board Staff continued to meet with Division of Water Rights, Division of Water Quality, and the San Francisco Bay Regional Water Board to develop a joint long-term approach to address unresolved temperature criteria questions and uncertainties.

## **SALINITY AND CV SALTS**

### **CENTRAL VALLEY SALINITY ALTERNATIVES FOR LONG-TERM SUSTAINABILITY (CV-SALTS)**

The CV-SALTS Central Valley-wide Salt and Nitrate Management Plan (SNMP) was completed and submitted to the Board on 12 January 2017. A resolution acknowledging receipt of the SNMP and directing staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March 2017 hearing. Final copies of the [SNMP](#) and related policy documents can be found at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/salt\\_nitrate\\_mgtplan](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/salt_nitrate_mgtplan))

The Salt and Nitrate Control Program (SNCP) Basin Plan Amendment with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). [The Adoption Resolution with the final Staff Report and Basin Plan Amendment language](#) can be found at the following location:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/#saltnitrate\\_cp\\_bpa](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa))

On 16 October 2019, the State Water Board adopted a resolution approving the SNCP amendments, along with a directive for the Central Valley Water Board to adopt targeted revisions to the amendments within a year of their approval by the Office of Administrative Law (OAL). [Details on the targeted revisions](#) can be found in the State Board Resolution, which will be posted upon certification at:

([https://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/resolutions/res19.html](https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/res19.html))

The final step of the basin plan approval process is submittal of the amendments to OAL and, for those portions subject to the Clean Water Act, to USEPA.

As staff work to complete the basin planning process, focused stakeholder meetings are continuing through the CV-SALTS Public Education and Outreach Committee and a Clean-up and Abatement Account grant to conduct Early Implementation Management Zone pilot studies in the Turlock and Kings River groundwater basins. An additional grant effort is focused on development of a workplan for the salinity Prioritization and Optimization Study.

### **CV-SALTS MEETING PARTICIPATION**

On 24 October 2019, Patrick Pulupa, Adam Laputz, Clay Rogers, Meredith Howard, Anne Walters, Brett Stevens and Walter Plachta participated in the CV-SALTS Executive Committee meetings. Discussions focused on the State Water Board's resolution and the directives laid for the Central Valley Water Board, grant activities relating to the development of Management Zone pilot studies, the Salinity Prioritization and Optimization Study work plan and other Salt and Nitrate Control Program outreach activities.

## **EVALUATION OF MUNICIPAL AND DOMESTIC SUPPLY (MUN) BENEFICIAL USE IN AG DOMINATED SURFACE WATER BODIES**

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board hearing to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date. Central Valley Water Board staff are continuing to work with State Board staff to address questions and concerns that were raised during the 10 July hearing and identify next steps.

More information on the [Municipal and Domestic Supply \(MUN\) Beneficial Use Project](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/) can be found at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/mun\\_beneficial\\_use/](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/))

## **UNITED STATES BUREAU OF RECLAMATION (USBR)—MANAGEMENT AGENCY AGREEMENT (MAA)**

MAA meetings with Central Valley Water Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. On 16 September 2019, Anne Walters participated in the MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP). On 1 July 2019, USBR released a draft Annual Work Plan for public comment. The due date for comments was 31 July 2019 and USBR received no public comments. The final Work Plan was approved by the Central Valley Water Board in September 2019. The next quarterly MAA meeting is scheduled for 9 December 2019.

## **SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)**

### **LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT**

The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. SWAMP is coordinating with local agencies to develop a source identification and pathogen monitoring plan in 2019 for this portion of the river. To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. In addition, DNA source identification monitoring was conducted from August through September 2019 at ten river sites and two urban runoff locations in the Lower American River. Initial results are expected in 2020. Additional DNA sampling will commence in late Spring of 2020.

## **SUMMER 2019 RECREATIONAL BENEFICIAL USE ASSESSMENTS**

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using E. coli as an indicator of fecal pollution. Central Valley Water Board staff concluded its 2019 sampling in the Stockton Urban Waterways and the Upper San Joaquin River at the end of September. Results were posted each week to an online map. A follow-up meeting with stakeholders in the Stockton area is scheduled for 19 November 2019.

[Online maps and more information on these SWAMP projects](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r_bua/) are available at:  
[https://www.waterboards.ca.gov/centralvalley/water\\_issues/swamp/r5\\_activities/2019\\_r\\_bua/](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r_bua/)

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

## GENERAL ORDERS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Tables 1 and 2, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2019/2020 (1 July 2019 and 31 October 2019) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order) and Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order).

### NPDES PERMIT TABLE 1 –LIMITED THREAT DISCHARGES TO SURFACE WATERS

Facility	General Order Permit Number
Combie Reservoir Sediment and Mercury Removal Project (amended NOA)	R5-2016-0076-019
Sacramento Deep Water Ship Channel (amended NOA)	R5-2016-0076-036
Blue Oak Terrace Mutual Water Company Well #2 Project	R5-2016-0076-056
Westlake Community Construction Dewatering Project	R5-2016-0076-057
McClellan AFB Groundwater Treatment System	R5-2016-0076-059
McLaughlin Mine Treatment System	R5-2016-0076-031

### NPDES PERMIT TABLE 2 - MUNICIPAL GENERAL ORDERS

Facility	County	General Order Permit Number
El Dorado Irrigation District, Deer Creek Wastewater Treatment Plant	El Dorado County	R5-2017-0085-006

# **DAIRIES/CONFINED ANIMAL FACILITIES**

## **INSPECTIONS**

The Confined Animal Facilities Program's FY2019/2020 performance target for facility inspections is 275. Staff has completed 30 inspections to date, which is not on track to meet the performance target. However, inspection counts are typically lower at the start of the fiscal year because staff is spending time reviewing approximately 1,200 annual reports, which have a July 1st due date. Staff does not anticipate a problem meeting the performance target before the end of the fiscal year.

## **DAIRY COMPLIANCE**

Staff recently issued notices of violation to dairies regulated under the Reissued Dairy General Order (Order R5-2013-0122) who failed to submit a 2018 annual report. Staff will pursue formal enforcement for those dairies that do not submit the required annual report following receipt of a notice of violation. The overall compliance rate for annual report submittal was greater than 95%.

## **BOVINE FEEDLOT COMPLIANCE**

Staff recently issued reminder notices to bovine feedlot facilities regulated under the Bovine General Order (Order R5-2017-0058) for the following reports that were due by 1 July 2019:

- Individual Groundwater Monitoring Plan (unless the facility is committed to enroll in a representative monitoring program)
- Farm Evaluation Form for cropland associated with the facility (unless the cropland is enrolled in the Irrigated Lands Regulatory Program)
- Certification of a Nutrient Management Plan for cropland associated with the facility (unless the cropland is enrolled in the Irrigated Lands Regulatory Program)

Staff also issued courtesy reminder letters to bovine feedlot facilities who had declared their intent to join a representative groundwater monitoring program. The Central Valley Dairy Representative Monitoring Program has established a representative monitoring program for bovine feedlot facilities. The reminder letters provided contact information and procedures for applying for membership in the bovine feedlot representative monitoring program.

Staff will pursue enforcement as appropriate for those feedlot facilities that do not comply with the Bovine General Order's milestone deadlines.

## **POULTRY OPERATION COMPLIANCE**

Staff recently issued notices of violation to a number of poultry facilities regulated under the Poultry General Order (Order R5-2016-0087-01) for past-due reports, including the following:

- Failure to submit an Operation and Maintenance Plan
- Failure to implement groundwater monitoring

Staff will pursue enforcement for those poultry operations that do not comply with the Poultry General Order's requirements following receipt of a notice of violation.

## **DAIRY DIGESTERS**

Staff has an active role on the Technical Advisory Committee for several Dairy Digester Research and Development Program (DDRDP) proposals submitted to the California Department of Food and Agriculture under a competitive grant application process. Funded by California Climate Investments, DDRDP provides financial assistance for the installation of dairy digesters in California, resulting in reduced greenhouse gas emissions. Dairy digesters use livestock manure to produce methane, which is a renewable source of electrical energy generation and transportation fuel. Grant awardees were announced in September, resulting in 43 applicants receiving approximately \$67 million. Information about the 2019 Dairy Digester Research and Development Program projects is available at the [California Department of Food and Agriculture's website](https://www.cdffa.ca.gov/oefi/ddrdp/).

(<https://www.cdffa.ca.gov/oefi/ddrdp/>)

## **OIL FIELDS**

### **WASTEWATER SURFACE PONDS**

Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land, and to evaluate closure plans for produced wastewater ponds. On 13 September, 13260 letters were sent to ten operators with outdated Waste Discharge Requirements (WDRs) requiring them to submit a Notice of Intent for one of the Oilfield General Orders or a Report of Waste Discharge (ROWD) for updated individual WDRs.

Some Operators have not completed tasks required by Notices of Applicability that have been issued. Notices of Violation were sent to Caleco, LLC for their Essex Lease ponds in the Midway-Sunset Oil Field; Caleco, LLC for their Sheehan Lease ponds in the Midway-Sunset Oil Field, and Griffin Resources, LLC McKittrick and G-R Leases in the McKittrick Oil Field. Further enforcement action is pending for seven Operators because requested Notices of Intent for coverage of discharges under a General Order have not been submitted.

The Notices of Applicability issued require that Operators assess whether constituents are present in produced wastewater from wells that were previously stimulated (fracked). Revised work plans for completing this task were requested from: CMO, Inc. for their Mitchel lease ponds in the Chico Martinez Oil Field; and Incremental Oil and Gas USA Holdings Inc. pond in the Sheep Springs Lease in Cymric Oil Field.

Sampling/closure plan related approvals/requests have been conveyed to: Vaughn, LLC for their pond on their USL 15 Lease in the Midway-Sunset Oil Field; J& K Operating Company, Inc., pond on the Jade Kern Lease in the Midway-Sunset Oil Field, Caleco, LLC ponds on the Fee Lease in the Cymric Oil Field; Ballard Oil Inc. ponds on the Overland Anderson Lease in the Cymric Oil Field; and California Resources Corporation's pigging sumps in the Elk Hills Oil Field.

Area Energy LLC submitted a response associated with a Central Valley Water Board staff request for a ROWD for their road mix facility in the South Belridge Oil Field. Wastes received from their oil fields in Central California are processed at this facility and then used as road materials on the leases in their oil fields. The response is under review.

## **SPILL RESPONSE**

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff were notified of 15 events in September and October.

A spill of crude oil and drilling mud occurred on the Star Fee Lease operated by Sentinel Peak Resources, LLC (Sentinel) in the Cymric Oil Field on 1 September. According to OES, an activation of an existing surface expression caused the discharge of approximately 0.5 barrels (bbls, or 21 gallons (gals)) of crude oil and 10 bbls (420 gals) of drilling mud to land. In telephone conversation on 3 September, Sentinel staff told Board staff that the discharge has stopped, all discharged fluids were fully contained, the cause/source of the seep is under investigation, and no dry stream beds or natural drainages were affected by the discharge.

A spill of crude oil occurred on the Bremer Lease operated by Sentinel Peak Resources, LLC (Sentinel) in the Midway Sunset Oil Field on 3 September. According to OES, a flowline leak caused the discharge of approximately 0.5 bbls (21 gals) of crude oil into a dry drainage/ditch. In telephone conversation on 4 September, Sentinel staff told Board staff that the discharge affected approximately 81-feet of a dry blue line stream bed, cleanup was in progress, staff of the California Department of Fish and Wildlife (CDFW) inspected the spill site, and CDFW staff are going to conduct a post-cleanup inspection on 6 September. On 9 September, Sentinel staff provided Board staff with photographs showing the pre- and post-cleanup conditions of the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the Section 1Y Lease operated by Chevron USA, Inc. (Chevron), in the Cymric Oil Field on 10 September. According to OES, a surface expression caused the discharge of approximately 0.15

bbls (6.3 gals) of crude oil and produced wastewater to land. In a telephone conversation on 11 September, Chevron staff told board staff that this surface expression is contained. On 18 September, the last update of the OES report for this incident reflected a total amount of approximately 105 bbls (4,410 gals) of crude oil and 245 bbls (10,290 gals) of wastewater. In a telephone conversation on 4 November, Chevron staff told Board staff that the seep stopped, and cleanup of the affected areas was completed.

A spill of crude oil and oil field produced wastewater occurred on a facility operated by Chevron in the Cymric Oil Field on 13 September. According to OES, a reactivation of a surface expression caused the discharge of approximately 0.3 bbls (12.6 gals) of crude oil and produced wastewater into a dry stream bed. The OES report also states that the responsible party was handling cleanup and containment. A 13 September update of the OES report states that the discharge fluids have not affected a dry stream bed. In a telephone conversation on 11 September, Chevron staff told board staff that this surface expression is contained. On 18 September, the last update of the OES report for this incident reflected a total amount of approximately 1,290 bbls (54,180 gals) of crude oil and wastewater combined. In a telephone conversation on 4 November, Chevron staff told Board staff that the seep stopped, and cleanup of the affected areas was completed.

A spill of crude oil and oil field produced wastewater occurred on the Cypress Lease operated by Texas Refinery Corporation (TRC), in the Midway Sunset Oil Field on 17 September. According to OES, a packing on a transfer pump failed causing the discharge of approximately 1 bbl (42 gals) of crude oil and produced wastewater combined to land. In a telephone conversation on 17 September, TRC staff told board staff that the discharge has been stopped and the affected areas have been cleaned. TRC staff added that the discharged fluids have not affected any dry stream beds or natural drainage courses.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron, in the Cymric Oil Field on 26 September. According to OES, reactivation of a surface expression caused the discharge of approximately 0.12 bbls (5.04 gals) of crude oil and 0.88 bbls (36.96 gals) of produced wastewater to land. The OES report also states that the discharge fluids have not affected dry stream beds or natural drainage courses.

A spill of crude oil and oil field produced wastewater occurred on the Section 22G Lease operated by Chevron USA, Inc. (Chevron), in the Midway Sunset Oil Field on 30 September. According to OES, an unknown source discharged approximately 1 bbl (42 gals) of crude oil and produced wastewater combined, into a dry stream bed. The OES report also states that the discharge fluids have not affected dry stream beds or natural drainage courses. On 1 October, the last update of the OES report stated that the final totals of the discharge fluids were approximately 1.29 bbls (54.18 gals) of crude oil and 1.09 bbls (45.78 gals) of wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron in the Cymric Oil Field on 3 October. According to OES, a surface expression caused the discharge of approximately 0.9 bbl (37.8 gals) of crude oil and 5.5 bbls (231 gals) of produced wastewater to land. The OES report also states that cleanup of the affected areas was in progress and that the discharge fluids have not affected storm drains or waterways. Multiple updates to the OES report were made and the last update, on 7 October reflected total recovered amounts of approximately 139 bbls (5,838 gals) of oil and 1,160 bbls (48,720 gals) of wastewater. On 22 October, Board staff inspected the surface expression and affected areas and observed that the affected areas appeared to be visually clean.

A spill of crude oil and oil field produced wastewater occurred on the Reed Crude Lease operated by Chevron in the Kern River Oil Field on 4 October. According to OES, a pipeline leak caused the discharge of approximately 0.5 bbl (21 gals) of crude oil and 0.6 bbl (25.2 gals) of produced wastewater into a dry stream bed. In a telephone conversation on 8 October, Chevron staff told Board staff the discharged fluids affected approximately 100-feet of an unnamed dry stream bed, cleanup of the affected areas has been completed, and staff of the CDFW are going to conduct a post-cleanup inspection of the affected areas on 10 October. On 8 October, Chevron staff provided board staff with photographs of the affected areas showing the post-cleanup conditions. On a later date, staff of the CDFW informed Board staff that they conducted the post-cleanup inspection and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron in the Cymric Oil Field on 12 October. According to OES, a surface expression caused the discharge of approximately 0.8 bbl (33.6 gals) of crude oil and 5.88 bbls (246.96 gals) of produced wastewater into a dry stream bed. Board staff inspected the surface expression and affected areas with staff of the CDFW on 22 October and observed what appeared to be oil in a large area within an ephemeral blue line stream bed. Staff documented the site conditions with photographs. Chevron staff told Board staff that the surface expression was intermittently active and that the areas near and around the surface expression and the affected areas are deemed unsafe for cleanup personnel, therefore, Chevron is using a submersible pump to recover the discharged fluids. Multiple updates to the OES report were made and the last update, on 28 October reflected total recovered amounts of approximately 805 bbls (33,810 gals) of oil and 5,905 bbls (248,010 gals) of wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron in the Cymric Oil Field on 13 October. According to OES, a surface expression caused the discharge of an unknown amount of crude oil and produced wastewater into a dry stream bed. Board staff inspected the surface expression and affected areas with staff of the CDFW on 22 October and observed the location of the surface expression which appeared to be dormant. The surface expression is located on the side of hill approximately 200-feet from the bank of the same stream bed affected by the 12 October surface expressions. Chevron staff told Board staff that fluids discharged from the surface expression flowed downhill and affected a section of the stream bed. Board staff observed a berm constructed around

the surface expression location to contain potential future discharges. Board staff also observed that the majority of the areas affected by the discharged fluids, including the stream bed appeared to be visually clean. Staff documented the site conditions with photographs. Multiple updates to the OES report were made and the last update, on 14 October reflected total recovered amounts of approximately 232 bbls (9,744 gals) of oil and 1,699 bbls (71,358 gals) of wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Bear Valley Lease operated by Grayson Oil Field Services (Grayson), in the Asphalt Oil Field on 14 October. According to OES, a polishing rod on a well failed causing the discharge of approximately 5 bbls (210 gals) of crude oil and produced wastewater combined to land. In telephone conversation on 14 October, Grayson staff told board staff that the discharged fluids sprayed onto soil and vegetation and no dry stream beds or natural drainage courses were affected by the spill. Grayson staff added that cleanup of the affected areas was in progress. Grayson staff also stated that the final estimate of the discharged fluids was approximately 5 bbls (210 gals) of crude oil and 10 bbls (420 gals) of wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Section 30 Lease operated by 25 Hill properties, Inc. (25 Hill), in the Midway Sunset Oil Field on 16 October. According to OES, a 6-inch pipe was discharging fluids into a dry stream bed. The OES report listed an estimate of 2 to 3 bbls (84 to 126 gals) for the amount of the discharged oil and wastewater. Board staff inspected the spill site on 22 October and observed the uncleaned affected areas within the stream bed. 25 Hill staff told board staff that waster was intentionally and repeatedly discharged from a stock tank (source tank) on the Facility into the dry stream bed for the last six to eight months. 25 Hill staff showed Board staff the source tank and the drain at the heel of the source tank that conveys to the underground pipe whose outlet emerges within the affected stream bed. 25 Hill staff told Board staff that the Bureau of Land Management required 25 Hill to hire a professional cleanup company to conduct cleanup of the affected areas and a biologist to oversee the cleanup. In a telephone conversation on 1 November, staff of the CDFW told Board staff that staff of the Bureau of Land management told her that cleanup of the affected areas has been completed. CDFW staff added that the affected stream bed is a blue line channel designated as Waters of the State. CDFW staff also told staff that she will be conducting a post-cleanup inspection of the affected stream bed on 1 November.

A spill of crude oil and oil field produced wastewater was reported on the Section 36W Lease operated by Chevron in the Midway Sunset Oil Field on 21 October. According to OES, a pipeline leak caused the discharge of approximately 0.75 bbl (31.5 gals) of crude oil and produced wastewater combined into a dry stream bed. Board staff inspected the spill site on 22 October and observed source of discharge and the areas affected by the discharged fluids. Cleanup activities of the affected areas were in progress during the inspection. Chevron staff told Board staff that the discharge probably occurred in May when spill in the same area was discovered, but this section of the affected areas was not discovered until 21 October.

A spill of crude oil and oil field produced wastewater occurred on the McVan Lease operated by E & B Natural Resources (E&B) in the Poso Creek Oil Field on 29 October. According to OES, a tank overflowed causing the discharge of approximately 75 bbls (3,150 gals) of crude oil and 25 bbls (gals) of produced wastewater onto land within a tank farm containment. In a telephone conversation on 29 October, E&B staff told Board staff that all discharged fluids were contained within the secondary containment of the source tank and that cleanup was in progress. E&B staff added that the increased foaming of the produced fluids in the tank caused by the cold temperatures caused the overflow and that E&B uses a de-foaming chemical to control foaming in the tanks but the dose of this chemical was not adjusted to account of the drop in temperature. E&B staff said that now the proper adjustment for the dose of the de-foaming agent was made.

Staff will conduct appropriate follow-up activities and consider appropriate enforcement for the spills.

## **FOOD SAFETY**

After the public Food Safety Meeting on 29 August 2019, Central Valley Water Board staff extended the deadline for the Panel to comment on documents that were presented during the Food Safety meeting. Comments regarding the draft White Paper were reviewed and incorporated, as appropriate. Comments regarding the draft Task 1 Report were submitted to GSI, Environmental, Inc. (GSI) for review. Central Valley Water Board staff has been coordinating with GSI to update the Task 1 Report. When available, the Task 1 Report will be submitted to the Panel for review and comments. Upon receiving feedback from the Panel, the Task 1 Report will subsequently be submitted to the public for review.

During September and October 2019, Central Valley Water Board staff scheduled multiple conference calls with the Science Advisor, GSI, and staff from the Office of Environmental Health Hazard Assessment, Department of Public Health, and Department of Food and Agriculture. The meetings covered a variety of items, including inquiries regarding new or proposed toxicological data being prepared by various agencies and appropriate methodologies for the assessment of toxicological data. In addition, Central Valley Water Board staff has continued to work closely with GSI to prepare draft reports for Tasks 2 and 3.

Central Valley Water Board staff has scheduled a public Food Safety Meeting on 14 November 2019. The meeting will be held at the Central Valley Water Board office in Rancho Cordova and will be webcasted. Board staff anticipates that the updated White Paper and draft reports for Task 2 and 3 will be disseminated to the public prior to the upcoming Food Safety Meeting.

## **UIC PROGRAM**

### **AQUIFER EXEMPTIONS**

During the period from 11 September 2019 through 1 November 2019, Staff of the Underground Injection Control Unit (UIC) performed the following aquifer exemption activities:

Midway-Sunset Aquifer Exemption – Staff completed a review of the Division of Oil, Gas, and Geothermal Resources (Division) responses (including new figures, tables, and water quality data) to its joint questions regarding the request for an aquifer exemption expansion for injection into the Tulare B and Lower Tulare aquifers within the Midway-Sunset Oil Field. Staff provided additional comments/concerns to the State Water Board the Staff regarding the Division’s responses and had meetings with the Division, the Operator, and State Board to discuss the proposed Aquifer Exemption boundaries;

Kern River Aquifer Exemption – Staff has continued to work with the staff of State Water Board and its management to prepare limitations and conditions to be included in a draft preliminary concurrence letter;

Round Mountain South Aquifer Exemption – State Water Board staff and Staff are conducting a concurrent review of an Aquifer Exemption Application for the Olcese Formation in the Round Mountain South Oil Field. Staff’s comments/concerns were provided to State Water Board, and a joint Water Board concerns document was sent to the Division. The Division provided a response and Staff reviewed the response and are preparing a list of remaining concerns for State Water Board consideration

### **UIC PROJECT REVIEWS**

Staff issued two no-objection-with-conditions letters and technical memorandums for UIC projects in the Asphalto and Round Mountain Oil Fields.

Staff sent its initial questions and concerns to the Division regarding potential impacts to groundwater quality from injection projects in the Fruitvale, Kern River, and North Antelope Hills Oil Fields.

Staff sent the Division follow-up questions for two injection projects in the Coalinga Oil Fields, and for one injection project in the Asphalto Oil Field.

Staff are preparing initial questions and concerns to the Division regarding potential impacts to groundwater quality from injection projects in the Mount Poso, McKittrick, and Midway-Sunset Oil Fields.

### **SENATE BILL 4 (SB-4) PROGRAM**

Since the last Executive Officer’s Report, Board staff have completed two SB4 Well Stimulation Treatment (WST) Application package reviews and submitted written

comments to the State Water Board. The Application packages reviewed were for locations where “protected groundwater” has been determined to be present. The Application packages reviewed were for: Aera Energy LLC’s Lost Hills Oil Field (12 Applications), and Chevron U.S.A. Inc.’s Lost Hills Oil Field (12 Applications). Initial reviews of five other WST Application packages have been completed. The final reviews will be completed upon receipt of the Division of Oil, Gas, and Geothermal Resources’ Axial Dimensional Stimulation Area Narrative Memorandums.

Board staff have also reviewed two Addendums to groundwater monitoring related plans and submitted written comments to the State Water Board. The Addendums reviewed were for Aera Energy LLC’s Lost Hills Oil Field. Three groundwater monitoring Exclusion proposals prepared by California Resources of Elk Hills representatives for separate locations in their Elk Hills Oil Field were reviewed. Written comments were submitted to the State Water Board.

Central Valley Water Board staff are currently reviewing groundwater monitoring reports for numerous locations where well stimulations have been conducted. Draft memorandums on the reviews have been prepared for: California Resources of Elk Hills CREH’s groundwater monitoring reports for the North Coles Levee Oil Field Well 32-30, California Resources Corporation’s Rose Oil Field, and Aera Energy LLC’s South Belridge Oil Field. The reports present groundwater sampling results associated with samples collected from locations where well stimulations were previously conducted. Groundwater monitoring reports for seven other locations are currently under review.

## **IRRIGATED LANDS REGULATORY PROGRAM**

### **(ILRP) QUARTERLY STAKEHOLDER MEETINGS**

Central Valley Water Board staff holds quarterly ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The October 9th meeting, held in Modesto, focused on drinking water well monitoring effort and the CV-SALTS Basin Plan Amendments.

More information regarding the stakeholder meetings can be found on the Central Valley Water Boards’ [ILRP – Stakeholder Meetings and Workgroups web page](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html) (https://www.waterboards.ca.gov/centralvalley/water\_issues/irrigated\_lands/regulatory\_information/stakeholder\_advisory\_workgroup/index.html).

### **EXPERT REVIEW OF ESJWQC SURFACE WATER MONITORING FRAMEWORK**

State Water Resources Control Board Order WQ-2018-0002 directed the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition’s surface water monitoring framework. The expert review process is being facilitated by Steve Weisberg of SCCWRP. Five Panel members have agreed to perform the external review. The first public Panel Meeting is scheduled for

7-9 January 2020 at the Central Valley Water Board's Rancho Cordova office. Additional panel and meeting information is available on the following website: [Expert Review Panel for the East San Joaquin \(ESJ\) Surface Water Quality Monitoring Program](http://www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/). <www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/>

## **PROPOSED CHANGES TO GRASSLANDS BYPASS WDRS**

On 2 August 2019, staff presented an information item to the Central Valley Water Board about the need for revisions to Waste Discharge Requirements for San Luis & Delta-Mendota Water Authority and the United States Department of the Interior Bureau of Reclamation Surface Water Discharges from the Grassland Bypass Project (Order R5-2015-0094) to permit discharges beyond 31 December 2019. Proposed revisions to the Order were released for public comment on 7 October 2019. Since release of the proposed revisions, staff has been meeting with various interested persons and agencies to discuss the elements of the Grassland Bypass Project and potential water quality impacts. The proposed revisions will be brought to the Board for consideration during the 5/6 December 2019 meeting.

## **LOW-THREAT ALTERNATIVE ILRP FRAMEWORK**

Staff continues to work with UC Rangelands to gather information to reevaluate the Irrigated Lands Regulatory Program to be more relevant and meaningful for irrigated pasture and low-threat crops in the upper watersheds. The information includes pesticide use data, nitrogen/fertilizer use data, management practice data, geographic data, and economic analysis results. Staff is also evaluating potential thresholds for irrigated pasture that might could be used to support an exemption from the Irrigated Lands Regulatory Program.

## **ILRP COMPLIANCE, OUTREACH & ENFORCEMENT**

### **DRINKING WATER WELL MONITORING OUTREACH**

Outreach efforts continue for the new drinking water well monitoring requirements in the East San Joaquin Water Quality Coalition (ESJWQC), whose members are required to monitor drinking water wells on enrolled parcels in 2019. Initial outreach package sent to all ESJWQC members in Dec 2018. A "reminder to sample" postcard was sent in Sept 2019. Staff is outreaching to ELAP laboratories to ensure members have resources to complete this requirement.

Board staff is following up with all members/landowners whose GeoTracker drinking water data exceed the drinking water standard but who have not sent in their Notification template. In addition to emails and phone calls, staff recently sent out 51 letters to ESJWQC members/landowners. Over 600 samples have been submitted, with about 36% exceeding the drinking water standard.

Central Valley Water Board staff is working with GeoTracker staff to monitor sample data and identify ways to enhance outreach to coalition members. We are working on automatic emails to be sent when drinking water sample data is uploaded into GeoTracker with a reminder of next steps. This is critical if the sample exceeds the drinking water standard, and in that case, the Notification template will be attached to the email with instructions on what to do.

Board staff are also working with Coalitions to ensure all Groundwater Trend Monitoring (GWTM) domestic well owners with nitrate exceedances are notifying users. All well owners who are coalition members must follow the drinking water monitoring requirements and use the approved Notification template.

Fresno staff has initiated outreach efforts for the Tulare Lake Basin to approximately 7,500 members. About 6,000 outreach packages were sent by the end of October. The remaining outreach packages will be sent out by mid-November 2019. The requirement for members to sample starts on 1 January 2020.

## **AGRICULTURAL PARCEL INSPECTIONS**

### **On-Farm Inspections for General Order Compliance**

The purpose of on-farm inspections is for Board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. These inspections include staff review of the farm evaluations, nitrogen management plans and sediment and erosion control plans. Board staff inspects the site conditions, including potential discharge points to surface waters, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

<b>Coalition Area</b>	<b>On-Farm Inspections August 16 – September 30</b>
East San Joaquin	3
San Joaquin Co & Delta	6
Westside San Joaquin	5
Sacramento Valley	5
<b>Total</b>	<b>19</b>

## **WATER CODE SECTION 13260 DIRECTIVES**

Staff continues to send directive letters for those owners of potential commercial irrigated lands identified through staff inspections of agricultural-zoned parcels and require the recipients to enroll with a third-party group within 15 days of receipt of the directive. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	Parcel Inspections August 16 – September 30
Sacramento Valley	401
<b>Total</b>	<b>401</b>

**NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE**

Notices of Violation (NOVs) were sent to un-enrolled farmland owners or operators for their failure to respond to a 13260 Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed Month August 16 – September 30
Sacramento Valley	2
<b>Total</b>	<b>2</b>

**NOTICES OF VIOLATION FOR FAILURE TO SUBMIT NITROGEN MANAGEMENT PLAN SUMMARY REPORTS**

Notices of Violation (NOVs) were sent to coalition members for their failure to submit Nitrogen Management Plan Summary Reports by the Board-approved deadlines. The NOVs urge members to promptly provide their reports to their respective coalitions or potentially face monetary penalties.

Coalition Area	NOVs Mailed August 16 – September 30
East San Joaquin	181
Tulare Lake Basin Area	65
<b>Total</b>	<b>246</b>

**SACRAMENTO RIVER WATERSHED COALITION GROUPS**

**CALIFORNIA RICE COMMISSION**

Surface water monitoring for the 2019 sampling season commenced on 28 May 2019. The results of sampling will be reported in the 2019 Annual Monitoring Report, due on 31 December.

**SACRAMENTO VALLEY WATER QUALITY COALITION**

On 23 October 2019, Sacramento Valley Water Quality Coalition submitted revisions to the Monitoring Plan Update for the 2020 Water Year. These revisions are under staff review.

On 27 September, Sacramento Valley Water Quality Coalition submitted revisions to the 2018 annual reports in response to Staff's review of the initial submittal. The annual reports include the Surface Water Monitoring Report, Groundwater Monitoring Report, Chlorpyrifos and Diazinon TMDL Report, and the Management Plan Progress Report.

On 13 September, the Executive Officer approved the Upper Feather River Watershed Group's Reduced Monitoring/ Management Plan Verification Option Proposal.

## **SAN JOAQUIN RIVER WATERSHED COALITION GROUPS**

### **EAST SAN JOAQUIN WATER QUALITY COALITION**

On 16 September, the Coalition submitted an amendment to the 2015 Groundwater Quality Management Plan (GQMP). The amendment includes an explanation of how the new Groundwater Management Practice Implementation Report is incorporated into the Coalition's current GQMP Strategy. Staff released the amendment on 9 October for public review and comment (due by 11/8/19).

On 18 September, the Executive Officer approved the Coalition's Monitoring Plan Update for the 2019 water year (1 October 2019 through 30 September 2020). The proposed schedule includes monitoring of constituents during the application periods.

On 25 September, the EO approved an amendment to the 2014 Surface Water Quality Management Plan. The amendment incorporates a management plan strategy for pyrethroid impairments in the Mustang Creek sub watershed as per the Pyrethroid Control Program.

On 8 October, staff held the 35th Quarterly Meeting with the Coalition representatives to discuss the Groundwater Management Practice Implementation Report, Groundwater Trend Monitoring Results, and Surface and Groundwater Quality Assurance Project Plans. The Coalition provided an update on the management plan monitoring results and outreach in the sub watersheds.

On 18 October, staff's review of the 2019 Annual Monitoring Report for the San Joaquin River Chlorpyrifos and Diazinon TMDL Compliance Monitoring report was provided to the Eastside and Westside San Joaquin River Watershed Coalitions. Overall, the Coalitions collected high quality data and addressed the seven monitoring objectives in the Basin Plan.

On 21 October, the Water Board sent a review letter package to the Coalition for the Groundwater Quality Trend Monitoring Program (GQTMP) 2019 Workplan. It requires the Coalition to meet with Water Board staff soon to discuss items that need to be addressed as described in the staff review memo. A revised GQTMP workplan needs to be submitted at least 60 days prior to the start of 2020 sampling.

On 31 October, the Coalition submitted an amendment form to update the Quality Assurance Project Plan. The Coalition proposes to update the list of constituents and

associated Data Quality Objectives to reflect the Monitoring Schedule for the 2019 Water Year. The amendment is currently under staff review.

## **SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION**

On 3 September, the Coalition provided the quarterly monitoring data report covering the sampling period January through March 2019.

On 13 September, the San Joaquin County and Delta Water Quality Coalition submitted a revised Monitoring Plan Update to the 1 August MPU, per staff's request. The revision included a reconciled monitoring schedule to match the tables within the MPU. The Executive Officer approved the MPU on 20 September.

On 13 September, the Coalition submitted an addendum to the 2019 Annual Monitoring Report. The addendum included rationale for groundwater wells not sampled during the 2018 groundwater quality trend monitoring event.

On 24 September, the Executive Officer approved the Coalition's update to the Groundwater Quality Trend Monitoring Network. The network is to be evaluated annually to determine if it remains adequate to meet program objectives.

On 28 October, the Groundwater Trend Monitoring Plan's QAPP was approved by the QA Officer.

## **WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION**

On 19 September, the Water Board sent a review letter package to the Coalition for the Groundwater Quality Trend Monitoring Program (GQTMP) 2019 Workplan. It requires the Coalition to meet with Water Board staff soon to discuss items that need to be addressed as described in the staff review memo. A revised GQTMP workplan needs to be submitted at least 60 days prior to the start of 2020 sampling.

## **GRASSLAND DRAINAGE AREA COALITION**

The 2018 Annual Monitoring Report was submitted on 28 May 2019. The report discusses the results of the first year of groundwater monitoring in the Grassland Drainage Area and proposes updates to the groundwater quality trend monitoring well network for 2019. A staff review memorandum was mailed on 22 July and required revisions to the report prior to finalization. On 28 October staff received a revised report that addresses the comments provided in the review memorandum.

## **TULARE LAKE BASIN COALITION GROUPS**

### **BUENA VISTA COALITION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **CAWELO WATER DISTRICT COALITION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **KAWEAH BASIN WATER QUALITY ASSOCIATION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **KERN RIVER WATERSHED COALITION AUTHORITY**

On 10 September staff met with representatives of the Kern River Watershed Coalition Authority to discuss the Coalition's Surface Water Monitoring Plan. Discussion focused on a proposed alternative regulatory approach for monitoring in areas with a low threat to water quality, specifically the Upper Kern River Watershed.

On 1 November staff provided a review of Trend Monitoring data contained in the Coalition's Monitoring Report. Assembly of sufficient wells for the Trend Monitoring network is an ongoing effort.

## **KINGS RIVER WATER QUALITY COALITION**

On 11 September staff met with representatives of the Kings River Water Quality Coalition as part of ongoing quarterly update meetings. Topics discussed included the Coalition's progress in developing a revised Surface Water Monitoring Plan (SWMP), an update on Groundwater Quality Trend Monitoring efforts and planned work, potential development of modified reporting requirements for specific categories of growers, implementation of new requirements contained in the Waste Discharge Requirements General Order for growers within the Tulare Lake Basin Area (R5-2013-0120-07), and anticipated timelines for CV-SALTS.

## **TULE BASIN WATER QUALITY COALITION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **WESTSIDE WATER QUALITY COALITION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **WESTLANDS WATER QUALITY COALITION**

Staff is currently reviewing groundwater quality trend monitoring data submitted with the Coalition's Monitoring Report and anticipates providing feedback to the Coalition when the review is complete.

## **OTHER PROJECTS**

### **DATA MANAGEMENT**

ILRP staff continues to route water quality monitoring data through the Surface Water Ambient Monitoring Program (SWAMP) for transfer to California Environmental Data Exchange Network (CEDEN) and is current with its CEDEN uploads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads coalition monitoring data to CEDEN. Four coalitions send data directly to the Central Valley Regional Data Center for transfer to CEDEN in May each year.

In September, the Data Management Team continued with a data entry audit by comparing the EDDs submitted to SWAMP in 2019 versus the records available in the SWAMP Data Warehouse. The DMT discovered that a number of Buena Vista Coalition records were not successfully loaded to the SWAMP Data Warehouse. SWAMP explained that there is an unknown problem with the syncing process. Staff is working with SWAMP to ensure all records are loaded.

### **GRASSLAND BYPASS PROJECT**

On 25 April 2019, the Annual Monitoring Report for the Grassland Bypass Project was submitted to the Central Valley Water Board. The report covers surface water monitoring conducted from 1 January through 31 December 2018. A review letter and memorandum were provided to the Dischargers on 8 July 2019 that required revisions to the Annual Monitoring Report. On 9 September a revised report was submitted that addresses the comments provided in the review letter.

On 21 October 2019, technical memorandums investigating exceedances that occurred during 2018 for pH and molybdenum were submitted. Staff is currently reviewing the memorandums.

### **RICE PESTICIDE PROGRAM**

Thiobencarb monitoring for the 2019 sampling season commenced on 30 April. The results of monitoring will be submitted in the 2019 Annual Monitoring Report, due on 31 December, and followed by the submittal of management practice recommendations for the 2020 sampling season.

The Annual Rice Pesticide Program Stakeholder meeting is scheduled to be held on 6 November 2019 at the Central Valley Water Board office in Rancho Cordova.

## **NON-POINT SOURCE (NPS)**

### **CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE**

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. Staff is in the process of reviewing information submitted from the Irrigated Agriculture responsible party in response to their 9 January 2019 13267 letter to determine load allocation compliance. On 22 August 2019, a Time Schedule Order request was submitted on behalf of Lake County MS4 co-permittees. The tentative Time Schedule Order is currently open for public comment for a thirty-day period. The TSO includes a schedule of when the permittees will be in compliance with their point source allocation. On 24 September 2019, staff sent USBLM a 13267 Order requesting information regarding compliance with their load allocation as well as post-fire management practices. On 10 October 2019, staff sent County of Lake a 13267 Order regarding their nonpoint source load allocation. Staff will continue to send Orders to the other responsible parties throughout 2019.

On 26 September 2019, Jennifer LaBay attended the Blue-Ribbon Committee for the Rehabilitation of Clear Lake Meeting. The focus of the meeting was on the Committee's recommendations for the legislative report, due January 1, 2020. The next meeting of the Committee is scheduled for 11 December 2019. Meeting details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's Blue-Ribbon Committee website. [resources.ca.gov/clear\\_lake/](http://resources.ca.gov/clear_lake/)

Board Member Robert Schneider has been acting as Jennifer LaBay's alternate on the Blue-Ribbon Committee. Following his tenure with the Central Valley Water Board, Board Member Schneider will continue his work as a Water Board representative on the Blue-Ribbon Committee.

Staff is also coordinating with agencies, organizations, and Tribes in Lake County to develop a joint brochure focused on educating residents about nutrient management and steps they can take to reduce nutrient impacts/erosion into Clear Lake. Central Valley Water Board is acting as lead in this effort. The brochure is tentatively scheduled to be available to the public in winter 2019.

More information about the Clear Lake Nutrient Control Program can be found on the Clear Lake Nutrient [TMDL webpage](http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml).  
[www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/clear\\_lake\\_nutrients/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml)

# CANNABIS

## COMPLIANCE AND ENFORCEMENT

The Central Valley Regional Cannabis General Order (Regional General Order) was rescinded at the 7 June 2019 Central Valley Water Board Meeting, with an effective date of 30 June 2019. At the time of rescission approximately 259 enrollees lost coverage under the Regional General Order. Several of the enrollments that were administratively terminated have been prioritized for further follow up to ensure proper remediation has occurred, due to their continued threats to water quality.

Staff have been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach and enrollment enforcement efforts to ensure eligible cultivators enroll in the Statewide General Order. Table 1 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date. Table 1. Summary of the Statewide General Order enrollments in the Central Valley Region to date.

**Table 1**

<b>County</b>	<b>CE</b>	<b>Tier 1L</b>	<b>Tier 1M</b>	<b>Tier 1H</b>	<b>Tier 2L</b>	<b>Tier 2M</b>	<b>Tier 2H</b>	<b>Total Active Enrollments</b>
Calaveras	2	13	2	0	2	2	0	21
Colusa	2	1	0	0	0	0	0	3
Contra Costa	1	0	0	0	0	0	0	1
Fresno	4	0	0	0	0	0	0	4
Lake	14	84	3	0	65	1	0	167
Merced	4	0	0	0	0	0	0	4
Nevada	9	146	3	0	3	0	0	161
Sacramento	126	0	0	0	0	0	0	126
Shasta	10	0	0	0	0	0	0	10
Siskiyou	4	0	0	0	0	0	0	4
Sierra	0	2	0	0	0	0	0	2
Kern	1	0	0	0	0	0	0	1
Solano	3	0	0	0	0	0	0	3
Stanislaus	14	6	0	0	2	0	0	22
Tulare	6	0	0	0	0	0	0	6
Yuba	1	0	0	0	0	0	0	1
Yolo	3	19	0	0	45	0	0	67
<b>Totals</b>	<b>204</b>	<b>272</b>	<b>8</b>	<b>0</b>	<b>117</b>	<b>3</b>	<b>3</b>	<b>604</b>

\*CE: Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.

## **OUTREACH**

Staff have scheduled an education and outreach event in Nevada county on November 5th. This event will target the local cultivation community and will provide information on regulatory requirements and how to remain compliant with the requirements.

Staff will be attending and staffing an informational table at the Emerald Cup in Santa Rosa, scheduled for December 14th and 15th. This event draws cultivators from around the state and allows staff to reach a wide audience to provide updates and information on the Water Board's regulatory requirements. The North Coast Water Board and the Division of Water Rights will be in attendance as well.

## **ENROLLMENT AND ENFORCEMENT**

On October 16th, approximately 25 Notices of Violation were issued for cultivators in Nevada county who failed to follow through on previously issued Water Code section 13260 directive letters.

## **COMPLIANCE**

On October 2nd, staff performed four permit compliance inspections in Yolo county.

## **ENFORCEMENT**

On September 20th, staff performed an enforcement inspection alongside CDFW wardens and scientists in Shasta County.

On October 17th, staff performed an enforcement inspection alongside CDFW wardens and scientists in Shasta county.

## **CYANOBACTERIA BLOOMS UPDATE**

Cyanobacteria and harmful algal blooms (HABs) have become a common occurrence in water bodies across the state and the U.S. This issue has led to the question "Are harmful algal blooms affecting our surface waters?" In 2016, the California Water Quality Monitoring Council developed the In 2016, the California Water Quality Monitoring Council developed the [California Harmful Algal Blooms Portal](https://mywaterquality.ca.gov/habs/) <https://mywaterquality.ca.gov/habs/> on their [My Water Quality webpage](https://mywaterquality.ca.gov/index.html) <https://mywaterquality.ca.gov/index.html>

The purpose of the HABs Portal is to provide information to the public in an easy-to-understand manner on the health and environmental effects of HABs in California's lakes, reservoirs, rivers and estuarine waters. The portal includes information such as how to identify and report a bloom, healthy habits the public can practice that will protect

themselves and their pets from a HAB, and a web page on control and treatment of blooms for water resource managers. The State Water Board’s Surface Water Ambient Monitoring Program implements this Freshwater HAB (FHAB) Program. The Central Valley Water Board participates in the state’s FHAB Program by investigating and responding to reports of suspected HABs.

## CALENDAR YEAR 2019 – CENTRAL VALLEY HAB

The cyanobacteria bloom season has mostly come to an end and only a few blooms remain in the Central Valley. A summary of cyanobacteria blooms for the period of September to November 2019 is provided in Table 1.

**Table 1. Cyanobacteria Bloom Summary: Month – 2019**

Summary of Cyanobacteria Bloom since previous EO Report	Number of Blooms
Number of Suspected Blooms Investigated since previous EO Report	8
Confirmed Blooms	2
Continuing Blooms from previous EO Report	3
Distinct Water Bodies with Confirmed Blooms	2
Human Illnesses Reported (under investigation)	2
Animal Impacts Reported (under investigation)	0

## GRANTS

### CLEAN WATER ACT §319(H) NONPOINT SOURCE GRANT SOLICITATION

Approximately \$4 million is available for the 2020 solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. In addition, approximately \$1 million from the Timber Regulation and Forest Restoration Fund will be used to address post-fire recovery needs in areas affected by fire, as indicated in the emergency proclamations by the Governor, the 2020 Nonpoint Source Program Preferences include post-fire recovery projects.

The 2020 solicitation for proposals will be available September 24 through December 17, 2019. [For more information, please visit the NPS website](http://www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml) (www.waterboards.ca.gov/water\_issues/programs/nps/319grants.shtml).

## **CLEAN WATER ACT §319(H) NONPOINT SOURCE ON-GOING GRANTS:**

### **EIGHTMILE VALLEY SEDIMENT REDUCTION AND HABITAT ENHANCEMENT PROJECT (\$749,992)**

The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (Closing 4/30/2021)

### **IMPLEMENTATION OF BEST MANAGEMENT PRACTICES IN THE DELTA: A COMPREHENSIVE PESTICIDE MANAGEMENT PROJECT TO IMPROVE WATER QUALITY (\$399,407)**

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. (Closing 8/22/2022)

## **TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:**

### **PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN (PHASE 1) (\$300,000)**

The Tehama County Resource Conservation District will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. A time extension has been approved for this grant extending the closing date by 9 months. A project site has been chosen and work is to be implemented and completed before this winter. (Closing 2/28/2020)

### **PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN (PHASE II) (\$500,000) –**

The Tehama County Resource Conservation District will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. Proposed demonstration projects were on United States Forest Service property which would have required NEPA documentation, which was not considered given the short time frame to complete. Private timber land is currently being considered for implementing the demonstration project. Due to complications in choosing an adequate demonstration

project a time extension has been requested by the grantee which will give the grant a new closing date of 4/30/2021 once approved. (Closing 4/30/2020)

### **POST-FIRE RESPONSE TO FOREST MANAGEMENT (\$329,519)**

California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. Due to a large amount of data still needed to be analyzed the grantee has requested a time extension which will give this grant a new closing date of 4/30/2021 once approved. (Closing 4/30/2020)

### **ROADSIDE FUEL REDUCTION (\$370,000)**

Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. (Closing 4/30/2020)

Battle Creek Watershed Road Sediment Reduction Program Phase 1 & 2 (\$406,350) – The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA documents. (Closing 10/31/2021)

### **NORTH BUTTE COUNTY ROAD INVENTORY AND IMPROVEMENT PROJECT (\$375,000)**

The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. (Closing 2/28/2021)

### **DEER CREEK NORTH YUBA RIVER WATERSHED ASSESSMENT AND SEDIMENT REDUCTION PLAN (\$255,100)**

American Rivers Inc. will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. A final draft of the grant agreement has been reviewed and an executed agreement is due soon. Eligible work start date: 03/01/2019; proposed closing date: 02/28/2022. A delay in execution has been caused by the grantee having staff turnover. A new project lead has been established and an executed agreement should take place soon. (Not Executed)

## **AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)**

The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance. Thinning operations are complete and now the grantee will be looking at upgrading the road network throughout the project area. (Closing 3/30/2022)

## **PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH**

(An asterisk in front of an entry below denotes “Outreach to Disadvantaged Communities” or “Outreach to Tribes”.)

\*On 4 September, the Title 27 Permitting and Mining Unit sent out 22 Notification of Consultation Opportunity letters to tribal entities pursuant to AB52 requirements under CEQA. The letters notified tribal entities that the Central Valley Water Board will be operating as the Lead Agency for CEQA evaluation of the proposed remediation work at the former Calaveras Cement Plant near San Andreas, Calaveras County. The remediation work includes consolidation and closure of cement kiln dust piles

On 17 and 18 September, Alex MacDonald attended the Interstate Technical Regulatory Council Per and Poly-fluorinated Alkyl Substances (PFAS) team meeting in Albuquerque New Mexico. The meeting was being held to address comments in preparation of finalization of their PFAS Technical and Regulatory document. On-line training and training videos were also drafted. Alex worked primarily on chapters regarding regulatory, toxicological and risk assessment aspects of PFAS. In addition, a new section was being added discussing risk communication.

On September 17, Jeremy Pagan, Mike Nilsen, and Michael Collins of the Redding Office’s NPDES Unit attended the California Water Environment Association’s Northern Sacramento Valley Chapter’s training meeting held in Redding, CA. Jeremy Pagan gave a presentation at the meeting on various topics currently relevant to the NPDES program including: whole effluent toxicity, the pyrethroids basin plan amendment & TMDL, State Water Board’s planned sanitary sewer systems WDR renewal, EPA’s Sufficiently Sensitive Methods rule, CV-SALTS, and per- and polyfluoroalkyl substances (PFAs and PFOAs).

On 21 and 22 September, Alex MacDonald attended the Interstate Technical Regulatory Council Optimization of In-Situ Remedies and Injection Strategies (Optimization) team meeting in Albuquerque New Mexico. The meeting was being held to address comments in preparation of finalization of their Optimization document and commence preparation of on-line training. Alex worked primarily on chapters regarding monitoring and optimization, and regulatory aspects.

On 24 September, Russell Walls attended the Kings County Environmental Crimes Task Force meeting.

\*On 26 September, Anthony Toto participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

\*On 1 October, Anthony Toto participated (via conference call) in the Kern Environmental Enforcement Network (KEEN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

\*On 3 October, Anthony Toto attended (via conference call) an Office of Environmental Health Hazard Assessment webinar regarding the Human Right to Water.

\*On 8 October, Anthony Toto attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 8 October, Clay Rodgers participated in the University of California Merced job fair.

On 7-9 October, Lynn Coster, Elizabeth Lee, and Rich Muhl attended the California Stormwater Quality Association's Annual Conference. The conference included technical presentations, training workshops, panels and forums addressing a wide range of challenges and opportunities facing stormwater practitioners and regulators in California and beyond. The conference also presented an opportunity to discuss storm water issues with permittees, other regulators, and professional consultants.

On 9 October, Russell Walls participated in the California State University Fresno job fair at the Save Mart Center.

On 9 October, Robert L'Heureux and Brett Stevens met with Modoc Resource Conservation District and North Eastern California Water Association representatives to discuss the Pit River temperature evaluation (a 2018 Triennial Review project) and tour portions of the upper Pit River watershed.

\*On 10 October, Robert L'Heureux and Brett Stevens met with the Environmental Director of the Pit River Tribe to discuss the Pit River temperature evaluation.

On 21-22 October, Meredith Howard, Selina Cole, Jennie Fuller, and Janis Cooke attended the 2019 State of the Estuary Conference in Oakland.

\*On 23 October, Doug Patteson attended a Human Right to Water community workshop in Fresno. The workshop was hosted by CalEPA's Office of Environmental Health Hazard Assessment to introduce and receive feedback on a draft report and web tool to evaluate drinking water safety, accessibility, and affordability. The report and tool provide information that the public and decision makers can use in policy planning and implementation, and in designing programs to deliver safe and affordable water to households and individuals. The draft report and tool are available at <https://oehha.ca.gov/water/report/human-right-water-california>

On 23-24 October, staff from the SWAMP, NPS, TMDLs, and Delta programs attended the joint Annual Meeting of the California Aquatic Bioassessment Workgroup and the California Chapter of the Society of Freshwater Science held at UC Davis. Meeting topics included conducting bioassessment in non-perennial streams, monitoring effects of wildfires, and indices of stream quality.

On 23-24 October, Christine Joab, Alice Lopes, and Susan Fregien attended the California Aquatic Bioassessment Workgroup (CABW) meeting held at UC Davis. This was the 25th Anniversary of the CABW. The meeting focused on the last 25 years of bioassessment, the future of bioassessment, monitoring program effectiveness, among other topics.

\*On 24 October, Russell Walls attended the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 24 October, Alex MacDonald presented an update on the Aerojet Superfund Site at a technical meeting of the Sacramento Groundwater Authority. This update is provided up to four times per year to the water purveyor group that services Sacramento County from the American River north to the Sacramento County line. Additional topics at the meeting included PFAS and the SFA Groundwater Management Plan.

On 30 October, Clint Snyder participated in a panel discussion on, The Emerging Nexus of Fire and Water in the Wildland-Urban Interface, as part of the Water Education Foundation's 36th Annual Water Summit in Sacramento. Panel participants included representatives from Las Virgenes Municipal Water District, Paradise Irrigation District, and the Association of California Water Agencies.

## **GENERAL UPDATES TO THE BOARD**

### **CONSTITUENTS OF EMERGING CONCERN (CECS)**

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (representing publicly-owned treatment works or POTWs) and Central Valley Municipal Separate Storm Sewer System agencies (MS4) to develop a work plan in response to State Water Board's Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan. The POTW/MS4 group have developed the Central Valley Pilot Study for Monitoring Constituents of Emerging Concern (CECs) Work Plan (Work Plan) based on feedback from the State Water Board and Central Valley Water Board staff.

In fiscal year (FY) 18/19, The Delta Regional Monitoring Program (DRMP) approved the Work Plan and allocated funding for the Aquatic Science Center (ASC) to complete the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP). At the 29 October 2019 Joint DRMP Meeting, the DRMP finalized the laboratory for sample analysis, so ASC can incorporate the laboratory-specific details into the QAPP and SAP, complete the plans, and submit them for the approval process. In FY 19/20, the

DRMP allocated \$35,000 to fund sampling planned for Year 1 of the Work Plan in FY 19/20 with additional funding for Year 1 activities to be provided by Supplemental Environmental Project funding. Ambient CEC sampling is planned to begin in the second or third quarter of 2020 after the QAPP and SAP are approved.

## **E&J GALLO WINERY, FRESNO COUNTY**

On 31 July 2019, E&J Gallo Winery submitted a groundwater work plan that describes the activities to be performed to advance the horizontal and vertical delineation of impacts to groundwater downgradient of the winery. The work plan proposes videoing irrigation well IW-1, installing one shallow and two deep new monitoring wells (MWs), sampling downgradient wells in coordination with the City of Fresno and Bakman Water Company, and updating the concentration and gradient contour maps after the sample results are received. Central Valley Water Board staff concurred with the work plan (with the exception of the location of one MW) in a 14 October 2019 letter. The Central Valley Water Board letter requested a work plan addendum by 27 November 2019 and a report by 28 February 2020 that documents the well installation, well sampling, and contains updated isoconcentration maps for TDS and nitrate.

# PERSONNEL AND ADMINISTRATION

## STAFFING UPDATES - SEPTEMBER 1, 2019 – OCTOBER 30, 2019

### PROMOTIONS:

None

### LEAVE OF ABSENCE:

None

### RETIREMENT:

Dannas Berchtold  
Scott Zaitz

### SUMMARY OF POSITIONS:

**Total Authorized Positions: 275**

**Total Vacant Positions: 21.5**

#### **Sacramento**

Authorized Positions: 148  
Vacancies: 9.5

#### **Redding**

Authorized Positions: 51.7  
Vacancies: 7

#### **Fresno**

Authorized Positions: 76  
Vacancies: 5

### **Separations:**

Anthony Toto – WRCE  
Vanessa Soto – ES  
Robert McCarthy – ES

### **New Hires:**

Chad Neptune – EG

### **Temporary Positions:**

#### **Separations:**

Jasvinder Mandair - Scientific Aid  
Natalie Bainbridge - Scientific Aid

Saranya Elankovan - Student Assistant  
 Heidi Deneke - Seasonal Clerk

**New Hires:**

Will Zimmerman – Scientific Aid

**TRAINING UPDATES - SEPTEMBER 1, 2019 – OCTOBER 30, 2019**

<b>Class Title</b>	<b>Number of Attendees</b>
14th Biennial State of the San Francisco Estuary Conference	3
2019 FREP WPHA Nutrient Management Conference	7
8 Hour HAZWOPER Refresher Training	57
ADA Compliance for Word Documents	4
All-Terrain Vehicle (ATV) Safety Training	1
Basic Inspector Academy	3
Best Practices for Multilingual Writers & Readers	3
California Aquatic Bioassessment Workgroup Meeting	13
California Lake Management Society (CALMS) 2019 Conference	1
CASQA Annual Conference	3
Contract Manager Training	4
Creating ADA Accessible Documents	1
Division of Mine Reclamation - Surface Mining Inspections	1
Emergency Planning	1
Health and Safety Basics	18
Implicit/Unconscious Bias Training	6
Introductory CEQA	14
Meeting Facilitation Skills for Waterboards Staff - Level 1-2	6
Microsoft Excel 2016 Level 2	2
Microsoft Excel 2016 Level 3	2
Microsoft Excel 2016 Level 4	1
Mine Inspection Training Workshop	6
Mine Safety Training - New Miner	1
Mine Safety Training Annual Refresher	1
Overview of EPA's NPDES Permit Application Forms (Webinar)	5
Rural Roads BPTC Training	15
Sediment Quality Analysis for Sediment Quality Objective	1
Web Accessibility: Accessible Microsoft Office Documents	12
Web Accessibility: Accessible PDF Documents	11
Web Accessibility: Making Web Documents Accessible (MS Office & Adobe)	2

## FISCAL UPDATE

A fiscal update cannot be provided at this time due to the Water Board's implementation of the Fi\$Cal accounting system. This information will be provided once budget reports become available.

## CONTRACTS

### OPERATIONAL SUPPORT SERVICES

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
17-084-150, Amendment 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services, Redding Office	05/24/2018	09/30/2020	\$60,000
19-046-160	TBD	Fixed wing aircraft - Aerial surveillance services	5/1/2020	4/30/2023	\$60,000

### WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
16-046-150, Am. 1	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	2/13/2017	02/12/2020	\$375,000
16-074-150, Am. 3	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	03/31/2019	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
17-066-150	Department of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	11/29/2018	01/31/2021	\$100,000
18-053-150	Caltest Analytical Laboratory	Lab services (Rancho Cordova office)	08/15/2018	06/30/2021	\$240,000
18-054-150	Basic Laboratory, Inc.	Lab services (Redding office)	08/15/2018	06/30/2021	\$165,000
18-055-150	Moore Twining Assoc. Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	03/31/2020	\$199,987
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem response under current and future scenarios.	07/01/2018	03/31/2020	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$110,000
18-084-150	Southern California	To organize and facilitate a Surface	4/17/2019	01/30/2021	\$249,806

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
	Coastal Water Research Project Authority	Water Expert Panel to evaluate the adequacy of the surface water monitoring and assessment framework in the Eastern San Joaquin (ESJ) River Watershed General Waste Discharge Requirements			
19-003-150	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	TBD	03/31/2022	\$510,000
19-004-150	TBD	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	TBD	3/31/2022	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	TBD	3/31/2022	\$525,000
19-062-150	Merced County Department of Public Health	To revise and/or modify existing online proprietary reporting tools for preparing annual reports and waste management plans developed for dairy operations to be used by bovine operations.	TBD	03/31/2022	\$300,000

## **FUTURE BOARD ACTIVITIES**

### **FEBRUARY 20/21 BOARD MEETING**

#### **NPDES PROGRAM– PERMITTING**

- City of Woodland Renewal
- Municipal General Order Amendment
- City of Alturas WWTP Renewal
- City of Stockton RWCF Renewal
- Merced WWTF Renewal
- City of Colusa WWTP Amendment
- Stallion Springs Community Services District WWTF Rescission

#### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

- Forward Landfill, San Joaquin County
- GPF/Pittsburg Landfill, Contra Costa County
- Geer Landfill, Stanislaus County
- Olson Meats, Revised WDRs
- City of Biggs WWTF, NPDES to WDR conversion
- Harris Ranch WWTF, Revised WDRs
- Setton Pistachios/Porterville Citrus, Revised WDRs
- City of Madera WWTF, Revised WDRs
- Malaga WWTF, NPDES to WDR conversion

#### **IRRIGATED LANDS REGULATORY PROGRAM**

- Information item on External Review of East San Joaquin Coalition’s Surface Water Monitoring Program

### **APRIL 2020 BOARD MEETING**

#### **NPDES PROGRAM – PERMITS**

- Sierra Pacific Industries Burney Division Sawmill Renewal
- City of Manteca WQCF Renewal
- Malaga WWTF Rescission
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Olivehurst Public Utility District WWTP Amendment

#### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

- Recology Hay Road Landfill, Solano County
- Fink Road Landfill, Stanislaus County
- North State Rendering, Revised WDRs

- Olson Meats, updated WDRs
- UC Davis Aquatic Weed & Hydraulics Lab, Revised WDRs
- Horizon Nut, Revised WDRs
- City of Modesto WWTF, Revised WDRs
- City of Kettleman WWTF, Revised WDRs

## **JUNE 2020 BOARD MEETING**

### **NPDES PROGRAM – PERMITTING**

- Collins Pine Chester Sawmill Renewal
- City of Sacramento Combined WW Collection/TRT System Renewal
- City of Turlock Regional WQCF Renewal
- Sixteen-to-One Mine Renewal

### **IRRIGATED LANDS REGULATORY PROGRAM**

- Information item on ILRP enrollment status and next steps

### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

- Aquaclear Farms, Solano County
- Ponderosa Landfill, Yuba County
- Loomis Landfill, Placer County
- Greenville Wastewater Ponds, Revised WDRs
- Redding Regional Septage, Revised WDRs
- Barrel 10 Winery, Revised WDRs
- Bronco Winery, Revised WDRs
- City of Corcoran WWTF, Revised WDRs

## **PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING**

### **STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM**

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit (June 2020 Board Meeting)

### **NPDES PERMITS**

- Mountain House CSD WWTP Amendment
- City of Galt WWTP & Reclamation Renewal
- City of Rio Vista Northwest WWTF Renewal
- Mariposa Public Utility District WWTF Rescission

## **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND**

- Butte College WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- Mule Creek State Prison (Amended WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)
- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Greenville WWTF (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)

## **SIGNIFICANT CENTRAL VALLEY WATER BOARD PLANS, PERMITS & POLICIES UNDER DEVELOPMENT**

### **MERCURY IMPLEMENTATION PLAN FOR RESERVOIRS**

Staff from the San Francisco Bay Water Board, the Central Valley Water Board, and the State Water Board's Division of Water Quality are developing a program to address fish mercury impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis and regulatory provisions for a statewide TMDL and implementation plan. The scientific peer review is complete. Project sponsors are discussing options for regulatory approach.

### **REVISION OF GENERAL ORDER FOR EXISTING DAIRIES**

Revision of Revised General Order R5-2013-0122 to include requirements for composting consistent with the statewide composting General Order WQ 2015-0121-DWQ, requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements, and to include updated requirements

adopted in the Bovine General Order R5-2017-0058. Staff is drafting revisions for Board considerations at future meeting.

## **WATER QUALITY OBJECTIVES FOR AMMONIA**

Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May. Toxicity testing in progress to provide information for criteria development.

## **USFS MOU FOR BAER ACTIVITIES**

Staff has engaged the USFS in drafting an MOU that will outline the process by which the Regional Boards may choose to participate in USFS Burned Area Emergency

## **MUN BASIN PLAN AMENDMENT**

The BPA was adopted on 11 August 2017. At the State Water Board approval hearing on 10 July 2018, the decision was made to bring the item back to the Board for consideration at a future date. A follow-up adoption hearing has not been scheduled. Amendments would also need approval by OAL and as appropriate, USEPA.

## **DEVELOPMENT OF PERMIT FOR FEDERAL NON-POINT SOURCE (NPS) ACTIVITIES ON FOREST LANDS**

The Central Valley Water Board is working with the Lahontan Water Board to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The Central Valley Water Board's MS4 permit is being used as a model. 6 initial public outreach meetings were held from October through early December 2017. [Project information can be found here:](http://www.waterboards.ca.gov/central_valley_water_board/projects/nps/federal_lands/)  
([http://www.waterboards.ca.gov/central\\_valley\\_water\\_board/projects/nps/federal\\_lands/](http://www.waterboards.ca.gov/central_valley_water_board/projects/nps/federal_lands/))

## ATTACHMENT A

**Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee’s sanitary sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water; or
- Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

**Category 2:** Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee’s sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly

**Category 3:** All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition

### Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 16 AUGUST 2019 through 30 SEPTEMBER 2019

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	30	36%
Debris-General	13	16%
Grease Deposition (FOG)	12	14%
Debris-Wipes/Non-Dispersables	4	5%
Pipe Structural Problem/Failure	4	5%
Pump Station Failure-Power	3	4%
Debris-Rags	3	4%
Damage by Others Not Related to CS Construction/Maintenance	2	2%
CS Maintenance Caused Spill/Damage	2	2%
Other (specify below)	2	2%
Damage by others not related to CS Const/Maint.	2	2%
Operator error	2	2%
Pump Station Failure-Controls	1	1%
Debris from Construction	1	1%
Pipe Structural Problem/Failure - Installation	1	1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	1%
<b>Total</b>	<b>83</b>	<b>100%</b>

**ATTACHMENT A**  
**Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 16 August to 30 September 2019**

<b>Office</b>	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>	<b>Total</b>
5F	1	3	9	13
5R	0	0	3	3
5S	3	1	63	67
<b>Total</b>	<b>4</b>	<b>4</b>	<b>75</b>	<b>83</b>

## ATTACHMENT A

**Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee’s sanitary sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water; or
- Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

**Category 2:** Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee’s sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly

**Category 3:** All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition

### Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 16 August 2019 through 30 September 2019

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	Fresno County	Fresno Co 41-Shaver Lake CS	860520	Category 1	Waterworks 41	Fresno	Yes	10,000	5,000	8/16/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861665	Category 1	250655	Sacramento	Yes	1,200	1,193	8/20/19	Root Intrusion
5S	Placerville City	Hangtown Creek CS	861095	Category 1	905 Spring St Placerville Ca.	El Dorado	Yes	250	200	9/10/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	860757	Category 1	250236	Sacramento	Yes	58	29	8/24/19	Root Intrusion
5F	Atwater City	Atwater CS	861008	Category 3	1924 Bridlewood	Merced	No	945	0	9/5/19	Pump Station Failure-Power

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	Bakersfield City	City Of Bakersfield CS	861349	Category 3	Manhole - 3100 Coventry Dr & Agate St	Kern	No	50	0	9/19/19	Grease Deposition (FOG)
5F	California Department of Corrections and Rehabilitation	North Kern State Prison CS	860525	Category 2	North Kern State Prison Delano, CA	Kern	No	6000	0	8/17/19	Pump Station Failure-Power
5F	Fresno County	City of Fresno CS	860801	Category 3	1346-13	Fresno	No	23	0	8/17/19	Grease Deposition (FOG)
5F	Los Banos Urban Area SW System	Los Banos City CS	860721	Category 3	Ranchwood Lift Station	Merced	No	450	0	8/25/19	Pump Station Failure-Power
5F	Madera County Public Works Department - Special Districts	SA-2 Bass Lake CS	860980	Category 3	Bass Lake Government Center manhole	Madera	No	100	0	9/4/19	Pump Station Failure-Controls
5F	Tulare Cnty Resource Management Agency	Terra Bella CS	861316	Category 2	Terra Bella Ca Ave 93 and Road 236	Tulare	No	6700	0	9/17/19	Debris-General
5F	UC Merced	University of California, Merced CS	861019	Category 3	UC Merced Granite Pass residence hall	Merced	No	15	0	9/6/19	Debris-Wipes/Non-Dispersables
5F	US Dept of the Interior Park Service	White Wolf CS	862217	Category 3	Last Manhole	Tuolumne	No	40	0	8/20/19	Debris-Wipes/Non-Dispersables

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	US Dept of the Interior Park Service	White Wolf CS	862218	Category 3	Last Manhole	Tuolumne	No	12	0	8/22/19	Debris-Wipes/Non-Dispersables
5F	USDI National Park Service Sequoia & Kings Canyon	Cedar Grove CS	860608	Category 3	Cedar Grove - Sheep Creek Campground MH #14	Fresno	No	200	0	8/20/19	Debris-Rags
5F	USDI National Park Service Sequoia & Kings Canyon	Clover Creek CS	862300	Category 2	Lodgepole Campground Site #37 - MHB #8	Tulare	No	10000	0	9/24/19	Debris-Rags
5R	Grizzly Lake Resort Imp Dist	Delleker CS	861352	Category 3	266 Bella Vista	Plumas	No	800	0	9/10/19	Grease Deposition (FOG)
5R	Mt Shasta City	Mt Shasta CS	860974	Category 3	509 McCloud Ave	Siskiyou	No	10	0	9/1/19	Debris-General
5R	Redding City	Redding City CS	861033	Category 3	541 River Oaks Dr	Shasta	No	150	0	9/2/19	Root Intrusion
5S	Antioch City	City of Antioch CS	861116	Category 3	4528 Knollpark Cir Antioch CA	Contra Costa	No	12	0	9/10/19	Root Intrusion
5S	Antioch City	City of Antioch CS	861237	Category 3	209 J St Antioch CA	Contra Costa	No	12	0	9/16/19	Grease Deposition (FOG)
5S	Antioch City	City of Antioch CS	861269	Category 3	2049 Johnson Dr Antioch CA	Contra Costa	No	14	0	9/17/19	Debris from Construction
5S	California Department of Corrections and Rehabilitation	Folsom State Prison CS	861430	Category 3	Repressa	Sacramento	No	400	0	9/24/19	Debris-General

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Davis City	Davis CS	860562	Category 3	1718 Redwood Lane	Yolo	No	5	0	8/18/19	Root Intrusion
5S	Davis City	Davis CS	860563	Category 3	2103 Whittier Dr.	Yolo	No	5	0	8/17/19	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Davis City	Davis CS	860694	Category 3	2001 Alameda Avenue	Yolo	No	15	0	8/22/19	CS Maintenance Caused Spill/Damage
5S	Davis City	Davis CS	860904	Category 3	2019 Whittier Dr.	Yolo	No	106	0	8/27/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	860639	Category 3	405 Scott Street	Sacramento	No	8	0	8/16/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	860740	Category 3	340 Prewett Drive	Sacramento	No	10	0	8/26/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	861085	Category 3	801 Sibley Street	Sacramento	No	3	0	9/6/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	861206	Category 3	American River Bike Trail	Sacramento	No	30	0	9/13/19	Grease Deposition (FOG)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	861834	Category 3	144 Canyon Rim Drive	Sacramento	No	10	0	9/16/19	Other (specify below)
5S	Lathrop City	WRP 1 MBR	861231	Category 3	Marina Drive East of Oberlin Avenue	San Joaquin	No	290	0	9/14/19	Grease Deposition (FOG)
5S	Modesto City	Modesto CS	861404	Category 2	801 Oakdale Rd	Stanislaus	No	7175	0	9/21/19	Debris-Rags
5S	Placer Cnty Dept of Facility Services	SMD No. 1 CS	861127	Category 3	1761 The Point, Meadow Vista, CA	Placer	No	126	0	9/10/19	Pipe Structural Problem/Failure
5S	Placerville City	Hangtown Creek CS	860743	Category 3	Placerville	El Dorado	No	300	0	8/22/19	Pipe Structural Problem/Failure - Installation
5S	Placerville City	Hangtown Creek CS	861162	Category 3	2942 Coloma St.	El Dorado	No	120	0	9/11/19	Root Intrusion
5S	Roseville City	Dry Creek CS	861387	Category 3	233 D St.	Placer	No	18	0	8/19/19	Root Intrusion
5S	Roseville City	Dry Creek CS	861459	Category 3	1012 Audrey Wy	Placer	No	5	0	8/22/19	Root Intrusion
5S	Roseville City	Dry Creek CS	861492	Category 3	110 Zolla Ave	Placer	No	3	0	9/2/19	Pipe Structural Problem/Failure
5S	Roseville City	Dry Creek CS	861672	Category 3	1420 Spring Valley Dr	Placer	No	2	0	9/14/19	CS Maintenance Caused Spill/Damage
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861552	Category 3	250093	Sacramento	No	127	0	8/21/19	Root intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861554	Category 3	249889	Sacramento	No	7	0	8/19/19	Damage by others not related to CS Const/Maint.
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861555	Category 3	250212	Sacramento	No	8	0	8/23/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861556	Category 3	250222	Sacramento	No	5	0	8/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861559	Category 3	250547	Sacramento	No	1	0	8/30/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861563	Category 3	249830	Sacramento	No	2	0	8/18/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861564	Category 3	250131	Sacramento	No	2	0	8/22/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861565	Category 3	249912	Sacramento	No	12	0	8/19/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861566	Category 3	250521	Sacramento	No	8	0	8/29/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861568	Category 3	249796	Sacramento	No	3	0	8/16/19	Root intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861569	Category 3	249910	Sacramento	No	10	0	8/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861570	Category 3	250579	Sacramento	No	4	0	8/30/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861571	Category 3	250585	Sacramento	No	10	0	8/30/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861572	Category 3	250601	Sacramento	No	707	0	8/30/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861573	Category 3	249877	Sacramento	No	2	0	8/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861574	Category 3	250095	Sacramento	No	16	0	8/21/19	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861576	Category 3	249828	Sacramento	No	12	0	8/18/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861577	Category 3	250229	Sacramento	No	4	0	8/24/19	Damage by others not related to CS Const/Maint.
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861578	Category 3	250268	Sacramento	No	51	0	8/25/19	Root intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861579	Category 3	250209	Sacramento	No	6	0	8/23/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861580	Category 3	250333	Sacramento	No	6	0	8/26/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861582	Category 3	250556	Sacramento	No	2	0	8/30/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861587	Category 3	249833	Sacramento	No	5	0	8/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861588	Category 3	250048	Sacramento	No	6	0	8/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861589	Category 3	250169	Sacramento	No	7	0	8/22/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861592	Category 3	249779	Sacramento	No	4	0	8/16/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861593	Category 3	249831	Sacramento	No	269	0	8/17/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	861594	Category 3	250415	Sacramento	No	1	0	8/28/19	Root intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento City	City of Sacramento Utilities CS	861456	Category 3	5352 Karbet Way	Sacramento	No	131	0	9/5/19	Other (specify below)
5S	Stockton City MUD	City of Stockton MUD CS	860602	Category 3	411 E. Third Street Stockton Ca	San Joaquin	No	36	0	8/17/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	860604	Category 3	1409 San Juan Ave Stockton Ca.	San Joaquin	No	7	0	8/17/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	860742	Category 3	8302 Tam O Shanter Stockton Ca	San Joaquin	No	5	0	8/22/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	860752	Category 3	2005 N. El Dorado Street Stockton Ca	San Joaquin	No	1	0	8/21/19	Pipe Structural Problem/Failure
5S	Stockton City MUD	City of Stockton MUD CS	860754	Category 3	2359 Waterloo Rd Stockton Ca	San Joaquin	No	40	0	8/22/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	860786	Category 3	1239 Washington Street Stockton Ca.	San Joaquin	No	11	0	8/20/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	860790	Category 3	1337 N. Madison ,Stockton, CA.	San Joaquin	No	22	0	8/26/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	861136	Category 3	Swenson Golf Course North pump station Stockton Ca	San Joaquin	No	11	0	8/23/19	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Stockton City MUD	City of Stockton MUD CS	861267	Category 3	301 W. Third, Stockton, ca.	San Joaquin	No	2	0	8/21/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	861858	Category 3	3228 Sanguinetti Lane Stockton Ca	San Joaquin	No	21	0	8/29/19	Root Intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sutter Cnty DPW	Robbins CS	861817	Category 3	September 2019 SSO - Acacia Street	Sutter	No	200	0	9/11/19	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	West Sacramento City	West Sacramento CS	860900	Category 3	1536 Park Blvd.	Yolo	No	7	0	8/17/19	Debris-Wipes/Non-Dispersables
5S	West Sacramento City	West Sacramento CS	860901	Category 3	2143 Evergreen Ave	Yolo	No	5	0	8/26/19	Debris-General