

EXECUTIVE OFFICER'S REPORT

18/19 FEBRUARY 2021

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

Patrick Pulupa, Executive Officer



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SUCCESS STORIES

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.

REDDING

FUEL STAR 76 (CASE 2), CASE 320075, PLUMAS COUNTY

The site is an active retail fuel station. In September 2017, four USTs were removed from the site under Plumas County Environmental Health Department (PCEHD) oversight. Upon observing obvious petroleum pollution in groundwater encountered in the tank excavation, PCEHD referred the case to the Central Valley Water Board. Product removal estimates are: 1,037 pounds removed with the soil excavated during UST removal and 7 pounds removed with the water pumped from the excavation. Between November 2018 and September 2019, the Discharger performed a subsurface investigation and conducted quarterly groundwater monitoring and reporting. Based on the results of the assessment and groundwater monitoring, Central Valley Water Board staff closed the case under the *Low-Threat Closure Policy* in December 2020. [Contact: Bill Bergmann at (530) 224-4852]

SIERRA SUPER STOP #19, CASE 320073, PLUMAS COUNTY

The site is a closed fueling station and convenience store. A petroleum release was discovered in November 2011 when four 12,000-gallon USTs were removed from the site under PCEHD oversight. PCEHD referred the case to Central Valley Water Board staff in 2014. The Discharger performed site assessment and groundwater monitoring activities from 2015 until 2019. Active remediation was not performed at the site. Staff closed the case under the *Low-Threat Closure Policy* in November 2020. [Contact: Bill Bergmann at (530) 224-4852]

SITE CLEANUPS

SACRAMENTO

FMC CORP – MODESTO, SITE CLEANUP PROGRAM, MODESTO COUNTY (SL185742938)

A Remedial Action Plan (RAP) for FMC Modesto was approved. This 43-acre, former barium products manufacturing site has been a vacant brownfield since 1985. The remedy includes commercial development of the site in such a way that infiltration through soils in the location of former unlined ponds is significantly reduced, thereby expediting groundwater remediation. The City of Modesto and surrounding community has long advocated for the returning the productive and beneficial uses of this property and the RAP will allow redevelopment. This RAP is already being incorporated by a property developer that is planning to begin construction this year.

REDDING

BIG VALLEY POWER PROPERTY, LLC, SITE CLEANUP PROGRAM CASE, LASSEN COUNTY (SLT5R1076)

The site was operated as a sawmill from the 1950s until 2001. A cogenerating plant was added to the facility in 1983, using wood waste from the sawmill as a fuel source. During the operational life of the facility releases occurred from: aboveground storage tanks; machinery; chemical usage, handling, and storage (used oil, acids, soda, and antifreeze); and stockpiled wood ash generated during cogeneration operations. Central Valley Water Board staff opened a Site Cleanup Program case in 2003. Between 2007 and 2018, staff oversaw multiple investigations and cleanup activities at the site. Sources of releases (e.g., leaking equipment, tanks, drums, containers) were removed from the site. Approximately 16,500 cubic yards of wood ash, 2,500 gallons of waste oil, 175 gallons of antifreeze, and 875 gallons of corrosives were removed from the site. Soil excavation removed approximately 800 gallons of diesel. Confirmation soil sampling and groundwater monitoring indicate that the residual concentrations of petroleum-related contaminants are not migrating off-site, do not pose an ongoing threat to human health and the environment, and will continue to degrade. Staff closed the case in December 2020. [Contact: Kate Burger at (530) 223-2081]

TOMS SIERRA COMPANY, PLUMAS COUNTY (CASE 205037)

The site is an aboveground bulk plant facility and historically had USTs. Three potential receptor drinking water supply wells known as the Norton well, the Spanish Creek Motel well, and the Feather River Materials well are located near the site. In 1991, two 5,000-gallon USTs were closed in place under a PCDEH permit; these USTs were subsequently removed in 2007. In 1999, Central Valley Water Board staff opened UST Case # 320062. In 2001, the Quincy Community Services District found 3.1 micrograms/Liter of methyl tert-butyl ether (MTBE) in the Norton well and shut down the well as a precautionary measure. In 2003, a coordinated pumping test with two

neighboring fuel distributing facilities determined that the water-bearing formations beneath the site are hydraulically connected to the Norton well. In March 2007, Central Valley Water Board staff opened Site Cleanup Program Case #2050307 and issued Cleanup and Abatement Order R5-2007-0706. Between 2000 and 2015, soil excavations and dual phase extraction operation removed a total of 1,440 pounds of petroleum and 10 pounds of lead from the subsurface. The Discharger performed groundwater monitoring intermittently from 2008 until 2019. Site investigation results indicate that residual pollution remaining at the site will continue to biodegrade and that the site is not the source of MTBE detected in the Norton well. Staff rescinded CAO R5-2007-0706 and closed the UST and SCP cases under the *Low-Threat Closure Policy* in November 2020. [Contact: Bill Bergmann at (530) 224-4852]

FRESNO

BASIC TRAINING CENTER #8, FRESNO, DOD – MILITARY UST SITE, FRESNO COUNTY (CASE T0601995170)

The former Fresno Basic Training Center No. 8 site was used by the U.S. Army during and after World War II, from 1942 to 1948. The Site is presently occupied by residences, the Fresno Country Fair Grounds, and other Fresno County-owned facilities and buildings. Available documentation for the site indicates 64 USTs, which were used to store petroleum heating fuel, were associated with the former facility and those USTs ranged in capacity from 100 to 5,000 gallons. In addition, one 12,000-gallon gasoline tank was reported to have been installed at the Site. The USTs are believed to have been removed, but documentation of the removals is incomplete. Several investigations were conducted at the site including geophysical surveys and soil and groundwater sampling. Investigation findings did not confirm remaining USTs, indicated the site does not present a threat to human health and the environment and there are no complete expose pathways for soil, groundwater, surface water. Based on the re-development of the Site since the 1940s, the diligence to locate remaining USTs, and demonstration of no excess threat to human health or the environment, Central Valley Water Board staff concurred with the no further action recommendation submitted by the U.S. Army Corps of Engineers. A case closure letter was issued on 9 November 2020.

GASOLINE TANKER SPILL – CA HIGHWAY 41 BETWEEN INTERSTATE 5 AND CA HIGHWAY 46, KERN COUNTY (CALOES INCIDENT #20-0402)

On 21 January 2020 a gasoline tanker was involved in a traffic collision that resulted in the tanker coming to rest overturned in the bottom of a dry tributary of Cottonwood Creek immediately south of the CA-41 highway alignment. Following emergency response, California Department of Fish and Wildlife (CDFW) and Water Board Site Cleanup Unit staff responded. CDFW assumed the role of lead oversight agency with the Water Board providing evaluation of remedial excavation progress. Approximately 411 gallons of gasoline was spilled on soil in the drainage and the fuel flowed downstream approximately 127 feet. Over the next three weeks, a contractor for the responsible party excavated approximately 940 cubic yards of impacted soil from the

bottom of drainage, in an excavation up to 12 feet deep, for disposal at a permitted facility. A combination of field screening and laboratory analytical results demonstrated that gasoline was remediated to concentrations below Environmental Screening Levels (ESLs), with the exception of a veneer of soil above competent bedrock which prevented any further excavation. On 21 February 2020, CDFW signed off on the completed cleanup and Water Board staff concurred with satisfactory completion of cleanup in a 10 April 2020 letter, following receipt of final laboratory analytical results.

STAFF RECOGNITION

SUPERIOR ACCOMPLISHMENT AWARDS

SUSTAINED SUPERIOR ACCOMPLISHMENT AWARD

At the December 10, 2020 Board Meeting, Executive Officer Pulupa presented Sustained Superior Accomplishment Award to the following staff:

EMPLOYEE: CLINT SNYDER

LOCATION: Redding Office

TITLE: Assistant Executive Officer

SUPERVISOR: Patrick Pulupa

Clint Snyder, Assistant Executive Officer, is being nominated for the Sustained Superior Accomplishment Award (SSAA) for his efforts to ensure consistency, accountability, and coordination across the three offices of the Central Valley Water Board through the development and implementation of the Regional Board's Portfolio Management framework. Clint's exceptional planning, organizational, and leadership skills, as well as his steadfast perseverance, have resulted in numerous significant and meaningful contributions to the Board's mission to preserve and protect water quality for generations to come.

The Central Valley Water Board has by far the largest and most diverse geographic territory of the nine regional boards, with its jurisdiction covering over 33 million acres, or 42% of the State of California's total landmass. To address critical water quality issues, the Board has more than 300 permanent and temporary staff working in 18 programs in offices in Redding, Rancho Cordova, and Fresno. Prior to 2012, the three offices operated relatively autonomously; each office set their own sub-regional priorities and worked towards independently developed management goals. While this autonomy provided each office the ability to respond to sub-regional differences, it also resulted in communication difficulties and inconsistencies in work subject area implementation/oversight.

Clint observed these inter-office challenges and identified a need to pull the region together in a way that would ensure a more efficient use of resources and a better alignment of priorities. He introduced the Portfolio Management concept to the Central Valley Water Board in 2013. Portfolio Management provides a framework to guide

program managers in establishing goals and targets, identifying priorities, obstacles, and needs, and accounting for resource use across the entire region.

Through implementation of Portfolio Management, program managers develop annual work plans that identify targets, priorities, and obstacles. The process of developing these annual work plans, a process that includes receiving input from the Board and the Board's executive management, encourages strategic thinking rather than simply reactionary responses. This process not only helps ensure that staff resources are allocated in the most efficient manner, but it also helps ensure that the Board's allocation of resources and priority-setting decisions are transparent, resulting in a higher degree of accountability. The Portfolio Management framework ultimately guarantees that even during the inevitable crises that our region will face, it will never again be three sub-regions with little effective coordination.

The effort to turn such a large organization into a "Three Offices – One Region" model was a monumental undertaking. Obstacles in the form of "we've always done it this way" attitudes to confusion regarding resource allocations to anti-change sentiments were met with patience and perseverance. Clint's relentless focus on positive outcomes and the long-term benefits of the process resulted in a slow but steady buy-in that has paid incredible dividends for the Region's efficiency and accountability.

Beyond his contributions to the development and implementation of Portfolio Management, Clint has been a leader in numerous other areas. For example, when unprecedented wildfires burned in northern California in 2018, Clint developed a plan and led the Region's response, including securing funding for millions of dollars in emergency sediment and erosion control work to help protect salmon habitat and critical water supplies.

Clint's dedication to public service, the Board, and its employees, along with his numerous professional and personal accomplishments at the Board, set an incredible standard for leadership and encourage others to find new and innovative ways of advancing the mission of the Central Valley Water Board. For this and much more, Clint is highly deserving of the Sustained Superior Accomplishment Award.

SUPERIOR ACCOMPLISHMENT (TEAM) AWARD

The Superior Accomplishment (Team) Award was presented to the following staff:

EMPLOYEE: CHARLES CÁRDENAS AND ELIZABETH REECE

UNIT: Confined Animals Unit

LOCATION: Rancho Cordova Office

TITLE: Engineering Geologist and Scientific Aid

SUPERVISOR: John J. Baum, Assistant Executive Officer

In July 2018, staff began work on a contract with Merced County to develop a bovine reporting tool for use in submitting annual reports required by the General Order for Confined Bovine Feeding Operations, Order R5-2017-0058, adopted by the Central Valley Water Board on 8 June 2017. The first annual reports were due to the Central

Valley Water Board 1 July 2020. After working on the contract for 18 months, we were informed by Merced County at the beginning of January 2020 that they would be unable to do the work, and the contract was cancelled.

Without standardized forms for completing and submitting annual reports for the newly regulated bovine operations, there was a high likelihood that we would not receive many of the required reports, and the reports we did receive would be substantially incomplete. Charles Cardenas volunteered to develop reporting forms that could be hosted on a website and submitted to us electronically, thus improving both the likelihood of compliance and the quality of the reports we received.

Charles, with the assistance of Elizabeth Reece, the Confined Animal Facilities Unit's Scientific Aid, developed stand-alone Excel spreadsheets for auction yards and for bovine operations without cropland, allowing them to enter animal numbers and other related data and generate electronic annual reports for submittal. For bovine operations with cropland regulated under the Bovine General Order, Charles developed a separate Excel spreadsheet that converted herd size information into manure generation figures, while Elizabeth created a pdf document to guide bovine operators through the use of the existing Merced County annual reporting tool for dairies for their bovine cropland information.

Working hard, and despite the COVID-19 work-from-home disruption starting in mid-March 2020, Charles and Elizabeth were able to have all the tools ready for release to industry on 14 April 2020. Subsequent to that date, Charles has been fielding questions from users as the Central Valley Water Board contact for questions regarding the bovine reporting tools. Charles and Elizabeth have done an outstanding job and are very deserving of this award.

EMPLOYEE RECOGNITION AWARDS OCTOBER 2020 THROUGH DECEMBER 2020

EMPLOYEE: JANAЕ FRIED

UNIT: Cannabis

LOCATION: Redding Office

TITLE: Engineering Geologist

SUPERVISOR: Jason Schroeder

The Central Valley Water Board's Redding office management team is pleased to select Janae Fried for the Superior Accomplishment Award. Janae has worked at the Central Valley Water Board since 2018, starting in the Timber Unit and transferring to the Cannabis Permitting and Enforcement Unit in 2019.

Janae is responsible for processing enrollment applications and ensuring compliance with the Cannabis Statewide General Order in nine counties in the northern Central Valley. Janae had recently taken on additional responsibilities after the program's staff reduction and consolidation of the Cannabis Enforcement and Permitting/Enforcement Units. Janae showed poise and excellent judgement in the recent flurry of enrollment

activity in Lake County that resulted from a County-imposed deadline. She was the point person for communication, answering questions of applicants, making technical evaluations to determine proper enrollment classifications, assigning work to Redding and Rancho staff, and working closely with her supervisor to successfully enroll approximately 200 Lake County cultivators into the General Order during October 2020. During this busy time, there were both internal and external pressures on Janae and she was able to prioritize her workload, maintain a great attitude and sense of humor, and excellent communication with the Permitting team and dischargers. She worked very independently but also was very conscientious about asking questions when she encountered unfamiliar circumstances.

Janae has proven to be an excellent employee with effective communication skills, technical curiosity, organization, and a great attitude. The Management Team is proud to have her as a member and appreciates her diligence and hard work.

EMPLOYEE: DANIA JIMMERSON AND JESSICA MULLANE

UNIT: Wastewater Consolidation Program

LOCATION: Rancho Cordova Office

TITLES: Water Resource Control Engineer and Environmental Scientist

SUPERVISOR: Scott Armstrong

Dania and Jessica comprise the recently formed Wastewater Consolidation Program, which is an independent unit within the Waste Discharger to Land Permitting Program. This new program was created with the signing of SB 1215, which established the regulatory framework to coordinate consolidation of onsite sewage disposal from Disadvantaged Communities to existing sewer treatment facilities and provides a mechanism for all parties to access available grant funding to support these construction projects. Wastewater Consolidation also provides dischargers a pathway to achieve alternative compliance goals of the CVSALTS Nitrate Control Program and to meet OWTS policy requirements.

Under State Board direction, Dania and Jessica began with the signed legislation and a list of priorities and have since developed all aspects of this entirely new program. Dania and Jessica have worked closely with several State Board divisions to establish program goals, develop a charter, and have reached out to numerous communities and technical or representative organizations throughout the state. By drawing from many of our internal resources, land use, hydrogeologic, and demographic data are being used to prioritize Disadvantaged Communities for sewer connection and to aid in securing financial assistance. In just the last six months, our Wastewater Consolidation team has coordinated upwards of 50 meetings and 10 formal presentations to a rapidly expanding list of stakeholder groups throughout the Central Valley.

Dania and Jessica have both made significant contributions by facilitating these projects to assist our less fortunate communities with the goal of protecting water quality for future generations. While focusing on numerous consolidation opportunities throughout the Central Valley, Dania and Jessica are also tasked with establishing a working model of the program to be used by other Water Board regions. Dania and Jessica have both

demonstrated great synergy in creatively implementing this new service that connects Disadvantaged Communities with several Water Board programs.

For these and many other reasons, Dania and Jessica are worthy to receive this recognition.

EMPLOYEE: GREG HENDRICKS

UNIT: 401 Water Quality Certification and Dredging Unit

LOCATION: Rancho Cordova Office

TITLE: Environmental Scientist

SUPERVISOR: Stephanie Tadlock

Greg is an environmental scientist with the 401 Water Quality Certification and Dredging Unit. Greg took the lead role in developing the Placer County Conservation Program general orders and certifications adopted by the board in October 2020. He worked closely with internal staff and contacts with the Army Corps of Engineers, Placer County, and other state and federal agencies, to build on lessons learned in previous HCP permits and program development to create a more robust structure for Placer County to utilize during the streamlined permitting process. Greg was able to expertly coordinate responses to public comment and concerns raised through the permit development and public review period in advance of the board meeting.

Greg has also been essential in collaborating and making sure our due diligence is met under AB 52 tribal consultations for projects for which we perform the CEQA lead agency role for circulation environmental documents for public review.

Greg has taken on the project manager role for Placer and El Dorado Counties, which are two of the most application and permit heavy counties in our portion of the region. Though his workload is often extremely heavy, he is able to work through his projects with efficiency and attention to detail regarding issuance timelines and water quality protection requirements to ensure permits are issued and requests answered in a timely manner and well in advance of issuing requirements at the state and federal level.

Greg's work is very detail oriented and produces high quality work. His contributions to further ensuring the efficiency and visibility of the unit has been valuable with other agencies, local governments, and applicants. With his diligence and willingness to go above and beyond expectations, he is a valuable member of our staff and is well deserving of the Employee Recognition Award.

EMPLOYEE: JEREMY HUGHES

UNIT: Storage Tanks

LOCATION: Rancho Cordova Office

TITLE: Engineering Geologist

SUPERVISOR: Joe Mello

Jeremy is an Engineering Geologist in the Storage Tanks section and he spends about 40% of his time as the enforcement coordinator for the group. This role includes acting as the section's OCC liaison and preparing the initial draft orders for UST cases as well

as some Site Cleanup cases. In addition to our various enforcement orders, Jeremy prepares our deed covenants for properties that do not meet Low Threat Closure Policy standards and have some land use restrictions due to residual contamination. Deed covenants have become a more common tool the last few years in the cleanup programs with the more difficult cases occasionally receiving these restricted closures. Working in consultation with Jeremy, the Storage Tanks section has been able to streamline the time it takes to prepare these enforcement orders and deed covenants.

Although Jeremy spends half his time in enforcement, he also manages eleven Site Cleanup and sixteen UST cases. This includes several cases which may have impacted municipal wells in the Carmichael area and may not have the resources to adequately investigate or remediate the impact to groundwater. Jeremy is working with the potentially responsible parties to apply for a Site Cleanup Subaccount Program (SCAP) grant that will assist moving the case toward cleanup. If successful in obtaining the grant, the investigation and cleanup project will be paid for with UST Cleanup Fund monies.

Jeremy also serves as a technical resource for other staff in the Storage Tank section when dealing with complex cases. Jeremy's contributions to the Storage Tanks section are greatly appreciated and have been key in moving several other staff's, and his own, cases toward closure.

It is for these reasons that we are recommending Jeremy for this award.

EMPLOYEE: NOAH HENRY

UNIT: Stormwater/Cannabis

LOCATION: Rancho Cordova Office

TITLE: Scientific Aid

SUPERVISOR: Brett Stevens

Noah has been working as a scientific aid in the Sacramento Stormwater Unit since February 2018. He is being recognized for his outstanding work performance in providing valued support to the Industrial Stormwater Program. Noah's substantial contributions include:

- Prioritizing his tasks to meet deadlines with minimal supervision
- Conducting infield compliance checks of terminated permits
- Researching and responding to Public Records Act requests
- Providing courteous customer service in response to email and phone inquiries
- Reviewing around 1,000 discharger reports per year for accuracy and completeness
- Reviewing pollution exceedance response action reports and ranking them for staff's timely follow up and enforcement; and
- Managing spreadsheets and letter preparation for data-merged mail outs of Notices of Violation, including entering the enforcement action into the Industrial Stormwater Program's online database.

During Noah's time with the Board, he has continuously taken on more responsibilities. Stormwater staff especially appreciate and recognize Noah's ability to work more independently during the COVID-related teleworking period. His work productivity, customer service, and attention to detail make Noah a valued member of the Stormwater Unit and the Water Board; and he has therefore earned the recognition provided by this award.

EMPLOYEE: ASHLEY HERNANDEZ

UNIT: Forest Practice Unit

LOCATION: Redding Office

TITLE: Environmental Scientist

NOMINATOR: Mathew Boone, Senior Environmental Scientist

Ashley started working in the Forest Practice Unit as an Environmental Scientist in November 2019. Prior to that she was the Units Scientific Aid for just under a year. Ashley filled a new vacancy for one of the AB 901 Positions. This new position had a very broad duty statement designed to capture a wide variety of duties.

Currently Ashley's primary focus is conducting active inspection on Private Exemption timber harvest projects, however in today's ever-changing field she has been involved with Timber Harvest Plans as well. Ashley took on her normal job duties and filled in for a vacant ES position overseeing Plumas county until we recently were able to hire. All in all, since Ashley started in November, she has completed 23 exemption and THP inspections.

Ashley has not hesitated to jump into the world of NOV's and quickly found herself administering a NOV including 13267 order. Ashley was able to work with the discharger and RPF and they were brought into compliance which included a required monitoring plan.

Following in the footsteps of Daniel Whitley, Ashley has taken up the lead for Passive Sampling. She is a member of a newly created Passive Sampling working group led by OIMA to help study the effectiveness of passive sampling and learn more on how the Water Boards can use passive sampling equipment to improve compliance.

Additional Ashley just finished writing up our own Passive Sampling proposal to be implemented in the North Salt Creek Watershed just north of Redding within the Delta/Hirz fire footprint. The purpose of this study will be to test the efficacy of the passive samplers and evaluate herbicide application in a post fire environment. The passive samplers are currently deployed in the watershed on a 14-day soak. The results of this project will be applied to the development of future standards for the Forest Activities Program General Order and compliance objectives.

Ashley's ability to take on multiple projects coupled with her upbeat attitude and great sense of humor has been inspiring and great to watch. Ashley's hard work and dedication is greatly appreciated, and the Forest Practice Unit and the Redding office are happy to have her.

EMPLOYEE: DEBBI MAHNKE

UNIT: Stormwater/401 Certifications

LOCATION: Fresno Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Matt Scroggins, Senior Engineer

Debbi is a Water Resource Control Engineer in the Fresno office and works in the Stormwater/401 Certification Unit. Some of Debbi's most notable recent accomplishments include:

- Issued the 401 Certification for the Mendota Pool Bypass/Reach 2B Improvements Project which has been one of the most complex projects certified in this office. The Project is also one of the more important projects in the effort to restore salmon runs on the San Joaquin River between Friant Dam and the confluence of the Merced River.
- Issued three other 401 Certifications.
- Responded to a complaint of an unpermitted construction site on the Kern River near Kernville.
- Drafted a letter, along with a supporting memo, to release the Water Board's interest in a performance bond related to compensatory mitigation for the Panoche Valley Solar Project.
- Worked closely with PG&E and Southern Cal Edison on stormwater and 401 Certification permitting requirements for various fire response efforts.
- Performed four construction stormwater inspections in Reedley.
- Performed a stormwater/401 cert inspection of the Hwy 180 freeway extension over the Kings River and other nearby surface waters.

This work is on top of her high baseline workload of answering phone calls, responding to emails, and reviewing discharger notices in programs that include 1000+ active construction stormwater permittees and approximately 200 active dredge/fill sites. For over 10 years, Debbi has essentially been the sole person in the Fresno office working day in, day out in the construction stormwater and 401 cert programs. She has consistently kept the programs moving forward and consistently been responsive to the public we serve. Her knowledge, dedication, and diligence are very much appreciated.

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 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 Regional 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
(1 November 2020 through 31 December 2020)**

Action Date	Agency	County	Notes
11/13/20	Bear Valley CSD	Kern	ACL R5-2020-0535 in the amount of \$9,000 addresses MMPs for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/13/20	Bell Carter Olive Company, Inc.	Tehama	ACL R5-2020-0551 in the amount of \$9,000 addresses MMPs for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/13/20	Shasta CSA #17	Shasta	Stipulation for Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2020-0553 in the amount of \$517,760 addresses MMP effluent limitation violations and Sanitary Sewer Overflow (SSO). The Discharger agrees to pay \$175,760 to the State Board's Cleanup and Abatement Account, \$60,000 in liability shall be satisfied through the completion of an Enhanced Compliance Action (ECA) and the remaining \$282,000 in liability assessed shall be satisfied through a Compliance Project (CP).
11/13/20	North Yuba Water District	Butte	Stipulated Order R5-2020-0552 in the amount of \$3,000 addresses MMP effluent limitation violations. The full liability assessed shall be satisfied through a compliance project.
11/13/20	Neal Road Recycling and Waste Facility	Butte	13267 Order issued to the Discharger for an investigation of impacts of unauthorized discharge of leachate. The Order requires the Discharger to

Action Date	Agency	County	Notes
			submit corrective action and technical reports that will ensure compliance with their WDRs.
11/30/20	City of Grass Valley	Nevada	EPL R5-2020-0559 issued in the amount of \$3,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2020 and 30 June 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/30/20	Linda County Water District	Yuba	EPL R5-2020-0561 issued in the amount of \$3,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 July 2019 and 30 June 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/30/20	City of Modesto	Stanislaus	EPL R5-2020-0565 issued in the amount of \$12,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 February 2020 and 31 August 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/30/20	Sacramento Regional CSD	Sacramento	EPL R5-2020-0563 issued in the amount of \$3,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 April 2014 and 31 June 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
11/30/20	City of Lodi	San Joaquin	EPL R5-2020-0562 issued in the amount of \$15,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 July 2016 and 30 June 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
12/4/20	City of Atwater	Merced	EPL R5-2020-0555 issued in the amount of \$27,000 which represents the sum of MMPs for serious effluent violations which occurred between 20 January 2012 and 31 July 2020. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 November 2020 through 31 December 2020. From a statewide perspective, Region 5 is responsible for 35% of the enforcement actions tracked in CIWQS during this period including 33% of all 13267 Orders, 18% of all ACLs, and 41% of all NOV's.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
(1 November 2020 through 31 December 2020)**

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	1	1	0	0	0	3	0	0	0	5	0
2	0	0	10	0	0	0	0	1	0	0	11	0
3	0	0	0	0	0	0	5	2	0	2	9	0
4	0	100	6	0	0	4	33	0	1	1	145	0
5F	0	0	1	0	0	1	8	2	0	11	23	0
5R	1	0	3	0	0	0	4	1	0	0	9	1
5S	0	52	0	0	0	5	21	1	0	16	95	0
R5 Totals	1	52	4	0	0	6	33	4	0	27	127	1
6T	0	0	0	0	0	0	1	1	0	1	3	0
6V	0	0	0	1	0	0	1	1	0	1	3	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	18	0	0	0	1	0	7	0	10	36	0
9	2	0	1	0	0	0	5	19	0	0	27	2
Totals	3	171	22	0	0	11	81	35	1	42	366	3

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

STATEWIDE ENFORCEMENT ACTIONS BY REGION

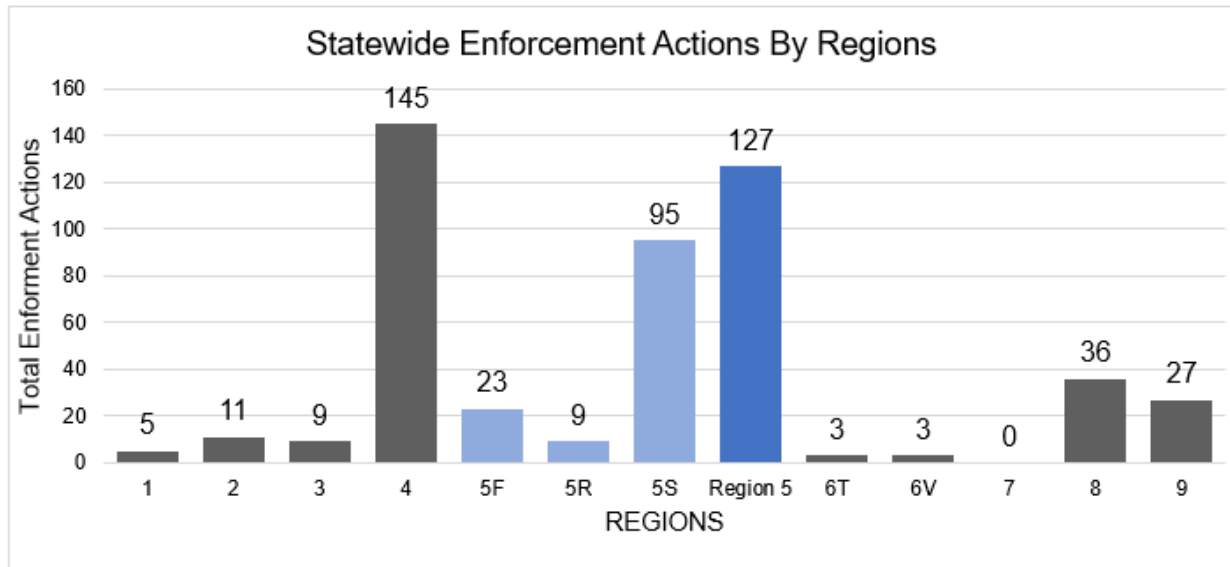


Figure 1: Enforcement Actions: Statewide Enforcement Actions (recorded in CIWQS)

In addition to the above, Enforcement Table 3 below summarizes enforcement actions recorded in GeoTracker and not in CIWQS:

Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker (1 November 2020 through 31 December 2020)

Region	13267 Order	NOV	Warning Letters	Staff Letter	Total
5F	1	1	0	44	46
5R	1	0	1	11	13
5S	0	0	0	1	1
Total	2	1	1	56	60

Finally, the Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 1 November 2020 through 31 December 2020, a summary of those enforcement actions is included in Table 4, below.

**ENFORCEMENT TABLE 4 – REGION 5 ILRP ENFORCEMENT ACTIONS
(1 NOVEMBER 2020 THROUGH 31 DECEMBER 2020)**

Region	NOVs for Failure to Respond to 13260 Directive	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Total
5F	0	0	0
5R	0	0	0
5S	26	23	49
Total	26	23	49

SANITARY SEWER OVERFLOWS (SSOS) AND COMPLAINTS

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit a SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 November 2020 through 31 December 2020, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA

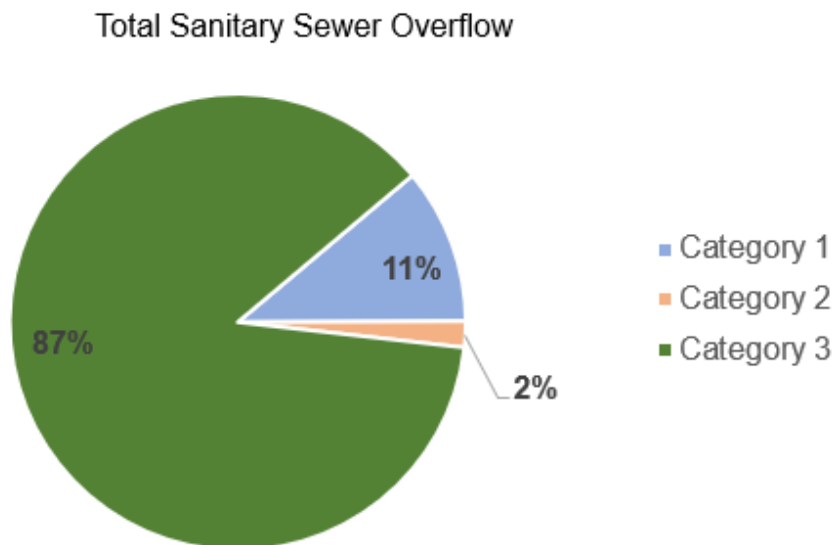


Figure 2: Central Valley Sanitary Sewer Overflow Summary

Category 1 – Spills of any volume that reach surface water

Category 2 – Spills greater than or equal to 1,000 gallons that do not reach surface water

Category 3 – Spills less than 1,000 gallons that do not reach surface water

For the reporting period between 1 November 2020 through 31 December 2020, there were 163 total SSO spills: 18 Category 1, 3 Category 2, and 142 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 Sanitary Overflow Reduction Program](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 in the State Water Board's CIWQS database pursuant to the requirements of SSS General Order.

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

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 1 November 2020 through 31 December 2020, Central Valley Water Board staff received a total of **17 complaints** via phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (<https://calepacomplaints.secure.force.com/complaints/>). To date, 15 (88%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining two (2) complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

The Water Board has the authority to impose administrative civil liabilities for a variety of violations under Water Code section 13323. All the monetary liability of an ACL penalty goes to the State Water Pollution Cleanup and Abatement Account (CAA); however, the monetary penalty may be directed toward a compliance or environmental project. These projects are as follows:

COMPLIANCE PROJECT (CP)

The Regional Water Boards may allow a small community publicly owned treatment works that has a financial hardship to spend an amount equivalent to the MMP toward a CP that is designed to address problems related to the mandatory minimum penalties (MMP) violation(s) and bring the discharger back into compliance in a timely manner.

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger. State provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger.

ENHANCED COMPLIANCE ACTION (ECA)

ECAs are projects that enable a discharger to make capital or operational improvements beyond those required by law and are separate from projects designed to merely bring a discharger into compliance. The Water Boards may approve a settlement with a discharger that includes suspension of a portion of the monetary liability of an ACL for completion of an ECA.

For the fiscal year period between 1 July 2020 through 31 December 2020, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$2,466,760 in monetary penalties (Liability payable to CAA, CP, and SEP) were issued during this period, of which \$555,000 was allocated for CPs and \$1,173,566 was allocated for ECAs (see Figure 3 below).

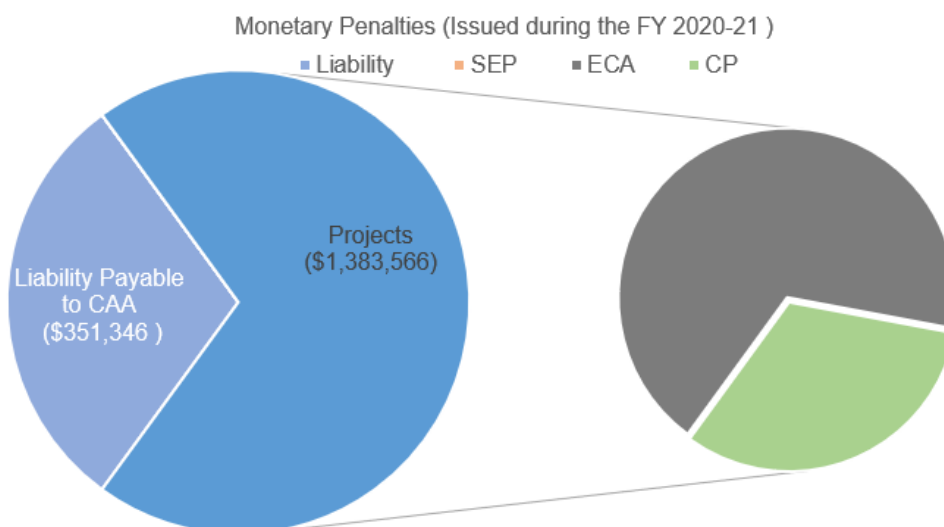


Figure 3: Sum of Total Monetary Penalties issued during the fiscal year.

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 2019-2020 fiscal year. This report was produced for the 2019-2020 fiscal year.

ENFORCEMENT TABLES 5A-5E – REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2020 THROUGH 31 DECEMBER 2020)

TABLE 5A – NPDES WASTEWATER

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	29	5	17%	NA	5
Minor Facilities Inspected	9	2	22%	NA	2

* NPDES wastewater facility inspections continue; however, with the Governor’s stay-at-home order issued over the past few months, in person inspection progress has been slower than usual. Compliance and enforcement staff expect inspections will increase this spring as the stay-at-home orders are lifted and the coronavirus vaccines become available.

Table 5b – Waste Discharge to Land (Wastewater)

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	43	39%	NA	59

Table 5c – Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	34	39%	NA	37
All Other Inspections	23	14	74%	NA	17

Table 5d – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	196	57%	NA	221
Stormwater Industrial Inspections	195	123	66%	NA	128
Stormwater Municipal Inspections	0	28	NA	NA	32

Table 5e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	107	64%	NA	107
Confined Animal Facility Inspections	275	78	29%	NA	81

**ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY
(1 JULY 2020 THROUGH 31 DECEMBER 2020)**

Table 6 – Clean Up

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	5	0	0%	NA	NA
New SCP Sites into Active Remediation	40	6	15%	NA	NA
Cleanup Program Sites Closed	41	19	46%	NA	NA
New UST Sites into Active Remediation	25	3	12%	NA	NA
Underground Storage Tank Sites Closed	68	33	49%	NA	NA

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

The Delta Mercury Control Program and associated Methylmercury TMDL (DMCP) requires entities responsible for discharging methylmercury (MeHg) in the Delta to conduct source control studies and evaluate and develop MeHg management methods. The DMCP requires the studies to be reviewed by an independent scientific peer review panel (Review Panel). Seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges have been completed and evaluated by the Review Panel. The [Review Panel's report](#) assessing the seven control study reports on municipal wastewater and urban stormwater runoff discharges can be viewed here:

(<http://www.deltacouncil.ca.gov/pdf/science-program/2019-08-22-delta-methylmercury-review-part-1.pdf>).

A second Review Panel is reviewing the remaining open water modeling and tidal wetlands reports and will submit a report on those studies in February 2021. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP.

Board staff met with dischargers to discuss the control study reports and to obtain clarification information and anticipate issuing letters of compliance with the DMCP for all studies. A one-day virtual meeting for methylmercury control study participants summarizing control study findings to-date and related impacts to the DMCP was held on 10 September 2020. Board staff are planning for a public workshop and CEQA scoping meeting toward the end of February.

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings, including Technical Advisory Committee (TAC) and Steering Committee (SC) meetings as well as other smaller meetings to provide support for program implementation. The Governance Subcommittee identified several revised governance and program structure options and recommended one option through a proposal to the Delta RMP SC at the December SC meeting. The feedback from the SC was received and a revised proposal was provided to the SC and discussed at the January SC meeting. The recommendation from the Governance Subcommittee is for the dischargers to form a nonprofit organization (501(c)3, similar to IRLP Coalitions) that would be responsible to implement the program and would alleviate the need to hire an outside entity for program management and implementation. On 12 January 2021, the Executive Officer provided a letter to the SC clarifying expectations for the timing of governance decisions and implementation of the new RMP program and governance structure by January 2022. The current Implementing Entity, the Aquatic Science Center, has informed the Central Valley Water Board that it does not plan to continue managing the Delta RMP after June 2021. Modifications to the governance structure, program structure, and implementing entity will require approval by the Central Valley Water Board.

On 21 December 2020, board staff and a subgroup of the Delta RMP TAC discussed priorities for FY20/21 program deliverables. Board staff reviewed pending quality assurance plan revisions, mercury data reports, and a toxicity data management plan. The Toxicity Laboratory Selection Committee held four meetings in December and two meetings in January to complete interviews with two prospective labs and reach a consensus on a final recommendation to the SC. The Toxicity Laboratory Selection Committee identified a laboratory to perform toxicity analyses for the Delta RMP currently scheduled to begin in March 2021.

DELTA NUTRIENT RESEARCH PLAN

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for assessing needs and developing water quality objectives for nutrients in the Delta. Ongoing implementation incorporates special studies, monitoring, and modeling to fill the information gaps.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

- Board staff is part of a project team that is monitoring cyanotoxins in water and sediment organisms in the Delta. The 2-year project, which is funded by a

Prop 1 grant, began sampling in August. Board staff assisted with monthly progress and data management.

- In December, Board staff completed the first sampling for a project aimed at investigating overwintering of cyanobacteria cells in major bloom locations in the Delta. Partners for this project are Bend Genetics and Robertson-Bryan Inc. The one-year project is funded by SEP funds through the Delta RMP and the State Water Board Freshwater HAB Program
- Board staff continue to develop mass load estimates of nitrogen and phosphorous in the Delta. This work will update previously published load estimates to cover the period 2010-2019.
- Development of a biogeochemical model depicting nutrient transport and transformations and phytoplankton growth and loss continued. A Water Board contract and Delta RMP are supporting the work. The biogeochemical model is linked to a 3-dimensional hydrodynamic model with initial focus on water years 2011 and 2016.

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 16 October 2020 through 13 January 2021, there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

[Real-time dissolved oxygen data for the DWSC](#) can be found at:

(<https://cdec.water.ca.gov/dynamicapp/QueryF?s=SDO>).

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml)

OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT

On 15 June 2020, the Department of Water Resources (DWR) submitted a draft report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle Rivers to meet a requirement of the 401 Certification. Board staff reviewed the draft DWR report, provided feedback to DWR, and met with DWR to discuss the report.

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 (BPA) 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 BPA on 10 July 2018. The Office of Administrative Law (OAL) approved the BPA on 19 February 2019. On 22 April 2019, USEPA approved the BPA. The BPA, including the TMDLs, are now fully approved and effective.

Pyrethroid Management Plans were submitted to the Board from the City of Roseville and the Sacramento Stormwater Quality Partnership to comply with the BPA and TMDLs in April 2020. Board staff have reviewed those Management Plans, provided comments to the dischargers, and anticipate approval of the final versions of the Management Plans in February 2020.

On 15 July 2020, Board staff sent orders under California Water Code Sections 13267 and 13383 (Orders) to Municipal Separate Storm Sewer System (MS4) permittees in the Sacramento and San Joaquin Rivers Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. All the Phase I MS4 permittees have complied with the Orders and submitted draft Baseline Monitoring Plans, and those plans are being reviewed by Board staff.

Phase II MS4 permittees under the program had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan due to the Board by 19 August 2021. The Phase II MS4 permittees were also required to submit a statement of intent by 31 August 2020 describing which option they selected to comply with the Order. All the Phase II MS4 permittees have responded to the Orders with a statement of intent, most intend to submit Pyrethroid Management Plans. There are sixteen (16) Phase II MS4 permittees that selected the baseline monitoring option and will submit a draft Baseline Monitoring Plan by 28 February 2021 and will complete one (1) year of baseline monitoring by 21 June 2022. If an exceedance of prohibition triggers is found during baseline monitoring, a Management Plan is due one (1) year from the date the exceedance.

Board staff continue to work with wastewater and agricultural dischargers under the program to ensure success to meet the baseline monitoring requirements in the Control Program for Pyrethroid Pesticide Discharges.

More information can be found on the

[Central Valley Pyrethroid TMDL and Basin Plan Amendment Website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html) at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html).

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 process, several tribes in the Central Valley Region requested that the Board designate Tribal Beneficial Uses (TBUs). On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project. Board staff continued participation in the Tribal Beneficial Uses Working Group, which has representatives from the nine Regional Water Boards and several divisions within the State Water Board (including the Office of Chief Council, Office of Public Participation, Division of Water Quality). Board staff have begun drafting a Basin Plan Amendment to add the TBU definitions to the Basin Plans in 2021. With respect to developing a process for waterbody designations, Board staff had conversations with Tribes that commented on the 2018 Triennial Review in favor of the TBU project. Additionally, Board staff had informal inter-agency collaboration conversations with the Native American Heritage Commission and the Department of Water Resources.

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 the project, Board staff met with the Modoc Resource Conservation District (MRCD) and Pit River Tribe beginning in the Fall of 2019 through early 2020. Through these meetings, stakeholders and Board staff determined the priorities for the program were to gather the available temperature-related water quality data, to identify if data gaps exist and to determine if additional data is needed through a field effort. The MRCD and Pit River Tribe members agreed to continue discussions on this topic by holding future

meetings. Board staff continue to facilitate meetings and discussions, as needed, or requested.

2021 TRIENNIAL REVIEW

Board staff drafted the 2021 Triennial Review Solicitation document for review plan to release document in February 2021. Board staff intend to bring the 2021 Triennial Review Workplan to the Central Valley Water Board for adoption in December 2021.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for control of biostimulatory substances 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 numeric or narrative water quality objective(s) for biostimulatory substances and control options for point and non-point sources. The Amendment development is focused first on wadeable streams, followed by lakes and reservoirs and then lakes and estuaries. Following adoption of the Toxicity Policy, State Water Board staff resumed work on a draft biostimulatory substances amendment for wadeable streams to be released in 2021.

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. Board staff are coordinating with Division of Water Rights on next steps to identify studies needed for developing a long-term approach to address unresolved temperature criteria questions and uncertainties. Board staff participated in a three-part discussion with Water Rights staff and various stakeholders, including state and federal agencies and academic researchers, on temperature studies. Water Rights will be working on the next steps identified during these meetings and will coordinate with Board staff.

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 Board 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/)

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa).

CV-SALTS MEETING PARTICIPATION

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), which was on 15 January 2020. The SNCP was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency on 17 January 2020, except for the portions subject to the Clean Water Act, which were approved by the USEPA on 2 November 2020. Basin plan amendments adopted by the Central Valley Water Board on 10 December 2020 in [Resolution R5-2020-0057](#). The resolution can be found here:

(https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2020-0057_res.pdf)

The mailing of Notice to Comply letters for the Nitrate Control Program were sent out to Priority 1 permittees on 29 May 2020. Preliminary Management Zone Proposals are due on 8 March 2021 and Notice of Intent documents are due 7 May 2021. Notice to Comply letters for the Salt Control Program were sent out on 5 January 2021. Notice of Intent forms are due on 15 July 2021. More information about the [SNCP](#), including the latest on Management Zone formation efforts in Priority 1 areas can be found at:

(<https://cvsalts.info>)

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. Board staff continue to work with State Board staff to address questions and concerns that were raised during the 10 July 2018 hearing and have developed an updated project Work Plan for the fiscal year 2020/21.

More information on the [Municipal and Domestic Supply \(MUN\) Beneficial Use Project](#) can be found at:

(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 Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. The last MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) was held on 7 December 2020. USBR's FY20/21 Work Plan was accepted by the Central Valley Water Board's Executive Officer in September 2020. USBR's 2020 Annual Report was submitted to the Central Valley Water Board in December 2020. [USBR's documents](#) are available at:

(<https://www.usbr.gov/mp/ptms/>).

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. To keep the public and local agency partners informed about current conditions, SWAMP has been collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. Monitoring was put on hold starting in March 2020 in response to COVID-19 requirements. However, E. coli monitoring at key sites along the Lower American River was restarted in mid-May 2020 in conjunction with a coordinated stakeholder effort to collect DNA source identification samples. This effort is part of a study to characterize the contributing sources of E. coli to the river. Sampling for Phase 1 of the study was completed in September 2020 and included ten sites on the American River and two urban runoff locations. An initial review of the data indicates that birds are the most consistent source of contamination in this reach. The DNA marker for birds was detected in 80% of the samples, while the marker for dogs was detected in 27% of samples and for humans in 9% of samples. Monitoring for Phase 2 of the study is scheduled to begin in July 2021 and will focus on the river reach from Sutter's Landing Regional Park downstream to the confluence with the Sacramento River.

SUMMER 2020 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. Board staff completed their monitoring studies for the 2020 season, which include popular recreational spots in and

around the Delta, the upper San Joaquin River, and the lower Kings River watersheds. Monitoring began in June 2020 and ran through September 2020.

[Online maps and more information on these SWAMP projects](#) are available at:

(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 have been issued to date for Fiscal Year 2020/2021 (1 July 2020 and 31 December 2020) 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 R5-2016-0076

Facility	General Order Permit Number
McLaughlin Mine Treatment System Amendment	R5-2016-0076-031
US Army Corps of Engineers and Flatiron/Dragados/Sukut Joint Venture; Lake Isabella Dam Safety Modification Project Amendment	R5-2016-0076-053
Union Pacific Railroad Company, Dunsmuir Railyard Project	R5-2016-0076-063
North Manteca Trunk Sewer Construction Dewatering Project	R5-2016-0076-064
Lone Tree Rd Improvements Phase II Construction Dewatering Project	R5-2016-0076-066
Yuba Water Agency, New Bullards Bar Dam Project	R5-2016-0076-067

NPDES PERMIT Table 2 - Municipal General OrderS R5-2017-0085

Facility	County	General Order Permit Number
Stallion Springs Community Services District, Wastewater Treatment Facility	Kern	R5-2017-0085-013
United Auburn Indian Community, Thunder Valley Casino WWTP	Placer	R5-2017-0085-014

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program's FY 2020/2021 performance target for facility inspections is 275. Staff have completed 132 inspections as of early January. Although COVID-19 restrictions may make it difficult, staff anticipates being able to meet the performance target, or if not, to come very close.

MORTALITY MANAGEMENT

The Confined Animal Facilities Program is participating in an effort lead by the Department of Food and Agriculture to develop a Rendering Disruption Plan. Other CalEPA agencies, rendering industry representatives, and dairy and cattle industry representatives are also participating. The goal is to have a plan in place for how to handle animal mortalities in the case of a disruption in the normal rendering process, either because of a sudden increase in mortalities (e.g., disease or severe heatwave) or a sudden decrease in rendering capacity (e.g., a breakdown at a major rendering facility). One of the options being considered is composting of mortalities on-site for later land disposal. If such an option is incorporated in the Plan, it must include measures to protect water quality and prevent nuisance conditions and would be subject to Water Board regulation.

OIL FIELDS

WASTEWATER SURFACE PONDS

Central Valley Water Board staff (Staff) continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land and evaluating closure plans for produced wastewater ponds. Items that have been completed include the following:

- Issued individual review memorandums to Drilling & Production Company and Valley Water Management Company that state their Notices of Intent seeking coverage under the Oil Field General Order are incomplete.

- Issued a review memorandum to Premier Resources Management, LLC that states their Report of Waste Discharge for individual waste discharge requirements is incomplete.
- Issued a Notice of Violation to Duncan's Pumping Service for failing to submit required documents and information and an unauthorized discharge in violation of Notice of Applicability R5-2017-0036-003.
- Provided approval and comments on a sampling/remediation work plan submitted by California Resources Corporation for an inactive former 3,000-foot conveyance ditch and two inactive concrete ponds in the McDonald Anticline Oil Field.
- Conveyed an approval letter for a closure report for a Vaughn, LLC produced wastewater pond in the Midway Sunset Oil Field.

Staff continue to review technical data included with Notices of Intent for coverage under General Orders submitted by Valley Water Management Company for several large, produced wastewater disposal facilities in the Midway Sunset Oil Field. The Notices of Intent are intended to provide information needed to obtain coverage under Oil Field General Order No. 3 to replace outdated waste discharge requirements.

Staff are currently reviewing technical data included with Notices of Intent for coverage under General Orders submitted by Hathaway, LLC for four ponds in the Devils Den Oil Field; and, by the Section 35 Partners for six ponds in the Kern Front Oil Field.

Due to the COVID-19 pandemic, Staff is only conducting emergency inspections for spills or equipment failures. Routine inspections are not being completed at this time.

Staff is also continuing to review monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land With a Low Threat To Water Quality.

SPILL RESPONSE

Central Valley Water Board staff (Staff) responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Staff were notified of 14 events in November and December of 2020.

A spill of oil, produced wastewater, and drilling mud occurred on the Star Fee Lease operated by Sentinel Peak Resources California (SPRC), in the Cymric Oil Field on 3 November. According to OES, a surface expression discharged approximately 1 bbl (42 gals) of oil, 1 bbl (42 gals) of produced wastewater, and 30 bbls (1,260 gals) of mud/oil mixture to land. On 3 November, SPRC staff told Staff the seep was actively releasing steam, but no additional fluids were flowing. SPRC staff added that the seep was contained with soil dams and that staff of the California Geologic Energy Management Division (CalGEM) were following up on this incident.

A spill of oil and oil field produced wastewater occurred on the Pen-Zier Lease operated by Aera Energy, LLC (Aera), in the Coalinga Oil Field on 18 November. According to OES, a power outage caused the discharge of approximately 72 bbls (3,024 gals) of crude oil and 648 bbls (27,216 gals) of produced wastewater from a storage tank into a containment area. On 18 November, Aera staff told Staff that the source of the discharge was produced wastewater tank and that the discharged fluids affected the secondary containment of the tank and a dirt road. Aera staff added that no dry stream beds or natural drainage courses were affected by the spill and that cleanup of the affected areas will be completed. Aera staff provided Staff with photographs of the affected areas before and after cleanup.

A spill of oil and oil field produced wastewater occurred on the Finley Lease operated by Aera, in the Midway Sunset Oil Field on 27 November. According to OES, a group line failure caused the discharge of approximately 5.25 bbls (220.5 gals) of crude oil and 16.25 bbls (682.5 gals) produced wastewater into a dry stream bed. On 30 November, Aera staff told Staff that staff of the California Department of Fish and wildlife – Office of Spill Prevention and Response (CDFW-OSPR) inspected the affected stream bed and that cleanup of the affected areas was in progress. Aera staff provided Staff with photographs of the affected areas before and after cleanup. Staff inspected the spill site on 8 December to observe the post-cleanup conditions of the affected stream bed. Staff of CDFW-OSPR conducted a post-cleanup inspection of the affected stream bed and signed-off on the site cleanup on 8 December.

A spill of oil occurred on the White Wolf Lease operated by San Joaquin Facilities (SJF), in the Midway Sunset Oil Field on 1 December. According to OES, a pipe failure caused the discharge of approximately 4 bbls (168 gals) of crude oil into the secondary containment area of a tank. On 1 December, Envirotech staff, SJF's consultant, told Staff that all discharged fluids were contained within the secondary containment of the tank. Envirotech staff added that no dry stream beds or natural drainage courses were affected by the spill and that cleanup of the affected areas will be completed. Envirotech staff provided Staff with photographs of the affected areas before and after cleanup.

A spill of oil and oil field produced wastewater occurred on the Section 5 Lease operated by E&B Natural Resources (E&B), in the Poso Creek Oil Field on 2 December. According to OES, a mechanical failure caused the discharge of approximately 150 bbls (6,300 gals) of crude oil and 100 bbls (4,200 gals) produced wastewater from a wastewater tank into a containment area. On 2 December, E&B staff told Staff that the discharged fluids were contained within the secondary containment of the tank. E&B staff added that no dry stream beds or natural drainage courses have been affected by the spill and that cleanup of the affected areas will be completed. Staff requested E&B staff to provide photographs of the affected areas before and after cleanup.

A spill of oil field produced wastewater occurred on the Fairfield Steam Pad Facility operated by Berry Petroleum Company (BRY), in the Midway Sunset Oil Field on 4 December. According to OES, a line leak caused the discharge of approximately

300 bbls (12,600 gals) of produced water to land. On 7 December, BRY staff told Central Valley Water Board staff that the discharged fluids affected production pads and no dry stream beds or natural drainage courses have been affected. BRY staff added that staff of the CDFW-OSPR inspected the spill site. Staff inspected the spill site on 8 December to observe the conditions of the areas affected by the spill.

A spill of oil field produced wastewater occurred on the Pan Fee Lease operated by BRY, in the Midway Sunset Oil Field on 6 December. According to OES, a mechanical failure caused the discharge of approximately 60 bbls (2,520 gals) of produced wastewater into land. On 7 December, BRY staff told Staff that the discharged fluids affected a low area with no vegetation and no dry stream beds, or natural drainage courses were affected. BRY staff added that staff of the CDFW-OSPR inspected the spill site. Staff inspected the spill site on 8 December to observe the conditions of the areas affected by the spill.

A spill of oil and oil field produced wastewater occurred on the Section 26 South Lease operated by Aera Energy, LLC (Aera), in the South Belridge Oil Field on 11 December. According to OES, a flow line leaked approximately 1.2 bbls (50.4 gals) of crude oil and 0.25 bbls (10.5 gals) of produced wastewater into a dry stream bed. On 11 December, Aera staff told Central Valley Water Board staff that cleanup of the affected areas was in progress and that staff of the CDFW-OSPR were in-route to inspect the spill site. Staff of the CDFW-OSPR conducted a post-cleanup inspection of the affected stream bed and signed-off on the site cleanup on 15 December. Central Valley Water Board staff inspected the spill site on 16 December to observe the post-cleanup conditions of the affected stream bed.

A spill of oil occurred on the McKittrick Fee Lease operated by SPRC, in the McKittrick Oil Field on 12 December. According to OES, the overfilling of a storage tank caused the discharge of approximately 18 bbls (756 gals) of oil into a secondary containment. On 12 December, SPRC staff told Staff that the discharged fluids affected the secondary containment of the tank and a production pad. SPRC staff added that no dry stream beds or natural drainage courses have been affected by the spill. SPRC staff also said that cleanup of the affected areas was complete.

A spill of oil and produced wastewater occurred on the Buena Vista Facility operated by CRC, in the Buena Vista Oil Field on 14 December. According to OES, an injection transmission line failed and discharged approximately 1 bbl (42 gals) of oil and 200 bbls (840 gals) of produced wastewater into a dry blue line stream bed. Staff inspected the spill site and observed the conditions of the affected stream bed on 16 December. CRC staff told Staff that cleanup of the affected areas was complete. Staff of the CDFW-OSPR conducted a post-cleanup inspection of the affected stream bed and signed-off on the site cleanup.

A spill of oil and produced wastewater occurred on the Dome Lease operated by SPRC, in the Midway Sunset Oil Field on 15 December. According to OES, a flow line leak discharged approximately 1 bbl (42 gals) of oil and 60 bbls (2,520 gals) of produced wastewater into a dry blue line stream bed. On 15 December, SPRC staff told Staff that

the discharge was still ongoing and staff of SPRC were working to stop it. SPRC staff added that staff of the CDFW-OSPR were onsite to inspect the spill site. Staff inspected the spill site and observed cleanup operations in process. Staff of CDFW-OSPR conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup.

A spill of crude oil occurred on the KCL61 Facility operated by Crimson Resource Management (Crimson), in the Bellevue Oil Field on 29 December. According to OES, vandalism involving opening valves on a tank caused the discharge of approximately

25 bbls (1,050 gals) of oil into a containment area. On 29 December, Crimson staff told Staff that all the entire discharge was contained within the secondary containment of the source tank and no dry stream beds have been affected. Crimson staff added that all free-standing fluids were removed from the affected areas and the oil-affected materials will be removed. Staff requested Crimson staff to provide photographs of the affected area before and after cleanup.

A spill of oil and oil field produced wastewater occurred on the Southwestern Lease operated by BRY, in the Midway Sunset Oil Field on 29 December. According to OES, a leak from a production well caused the discharge of approximately 33 bbls (1,386 gals) of oil and produced wastewater into land. On 29 December, BRY staff told Staff that the discharged fluids affected production pads and no dry stream beds, or natural drainage courses have been affected. BRY staff added that cleanup of the affected areas was ongoing.

A spill of oil and oil field produced wastewater occurred on the Station 31 Facility operated by Chevron USA, Inc. (Chevron), in the Midway Sunset Oil Field on 29 December. According to OES, the overfilling of a tank caused the discharge of approximately 36.3 bbls (1,524.6 gals) of oil and 0.7 bbls (29.4 gals) of produced wastewater into a containment. On 29 December, Chevron staff told Staff that all the discharged fluids were contained within the secondary containment of the source tank and no dry stream beds or natural drainage courses have been affected. Chevron staff added that cleanup of the affected areas was in progress and staff of the CDFW-OSPR inspected the spill site.

OIL FIELD FOOD SAFETY EXPERT PANEL

In November, GSI Environmental, Inc. (GSI), the consultant completing the work for Tasks 1-3 of the Food Safety Project, updated reports on Tasks 2 and 3 to incorporate comments by the Food Safety Expert Panel (Panel) and the Science Advisor. These draft reports were submitted to Central Valley Water Board staff (Staff) in December and are undergoing a final review by the Panel, Science Advisor, and Staff. The Tasks 2 and 3 Reports will be posted to the [Central Valley Water Board's Food Safety webpage](https://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/food_safety/) (https://www.waterboards.ca.gov/centralvalley/water_issues/oil_fields/food_safety/) when available.

Also, in November, staff responded to a Public Records Act request regarding the Food Safety Project from freelance journalist.

In December, Staff distributed a draft of the Food Safety Project White Paper on the Reuse of Oil Field Produced Water for Irrigation of Food Crops in Central Kern County, California (White Paper) to the Panel for review. Staff has made edits to the White Paper to incorporate and address comments from Panel members. Staff anticipate being able to share a draft final version of the White Paper with the public in January.

UIC PROGRAM

During the period from 5 November 2020 to 14 January 2021, Central Valley Water Board staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – The California Geologic Energy Management Division (CalGEM) provided State Water Board staff and Staff a revised aquifer exemption application (application). State Water Board staff and Staff met with CalGEM to discuss the changes to the application. Staff is reviewing the application provided.

Kern River Aquifer Exemption – Staff continues to provide comments to State Board regarding the revised application provided by CalGEM.

Round Mountain South Aquifer Exemption – Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Deer Creek Aquifer Exemption – CalGEM provided State Water Board staff and Staff a revised application. Staff is reviewing the revised application provided.

Mt. Poso Dorsey Area Aquifer Exemption – Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

UIC PROJECT REVIEWS

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Staff is reviewing the information provided.

Staff has reviewed project information relating to an Operator's request to conduct a water disposal project located in the South Belridge Oil Field and is preparing a no objection letter. Staff issued a no objection letter and memorandum for the Operator's water disposal project in the McKittrick Oil Field. These two water disposal projects are being proposed so that the Operator can stop disposing of produced water into surface impoundments.

Staff continue to review project information relating to an Operator's request to conduct a water disposal project located in the South Belridge Oil Field. This water disposal project is being proposed as part of the Operator's transition plan to move its current

water disposal activities from the east side to the west side of the South Belridge Oil Field. Staff has reviewed the information provided by the Operator and is waiting for information to be provided by CalGEM.

Staff received project information relating to an Operator's request to conduct a waterflood project located in the Elk Hills Oil Field. This waterflood project is being proposed as part of the Operator's transition plan to end its current water disposal activities in the upper portion of the Tulare Formation above the Amnicola Clay. Staff has reviewed the information provided and is preparing a letter with its initial questions. Staff, in addition, received a second project related to the Operator's request to conduct waterflood injection as part of its transition plan. Staff is reviewing the information provided.

Staff received project information relating to an Operator's request to conduct a water disposal project located in the Kern River Oil Field. Staff reviewed the information provided and sent its initial questions to CalGEM.

Staff received project information relating to an Operator's request to conduct steamflood and cyclic steam projects located in the Lost Hills and Midway-Sunset Oil Fields. Staff reviewed the information provided and sent its initial questions to CalGEM.

Staff issued six no objection letters and memorandums for UIC projects in the Kern River, McKittrick, Cymric, and Midway-Sunset Oil Fields.

Staff received project information relating to an Operator's request to conduct a steamflood and cyclic steam project in the McKittrick Oil Field. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Staff have not reviewed any Well Stimulation Treatment (WST) Application packages.

Staff completed review of Chevron U.S.A. Inc. documents and data associated with a groundwater mound feature in the Lost Hills Oil Field. Staff reviewed an Aera LLC work plan for the installation of a groundwater monitoring well at the King Ellis Lease in the South Belridge Oil Field and submitted written comments to the State Water Board.

Staff reviewed groundwater monitoring reports for: Aera Energy LLC's Lost Hills Oil Field; California Resources Corporation's North Coles Levee Oil Field well 42-31; California Resources Corporation's Buena Vista Nose area; California Resources Corporation's Kettleman Middle Dome Oil Field; Chevron U.S.A. Inc.'s Lost Hills Oil Field; and, Berry Petroleum's South Belridge Oil Field. Staff submitted written comments to the State Water Board.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

EXPERT REVIEW OF ESJWQC SURFACE WATER MONITORING FRAMEWORK

The Central Valley Water Board convened an external expert review of the East San Joaquin Water Quality Coalition's surface water monitoring framework, as directed in State Water Resources Control Board Order WQ-2018-0002. Steve Weisberg of SCCWRP facilitated the five-member panel external review during 2020 which included three public Panel Meetings. The final Findings and Recommendations Report was made available on 17 December 2020.

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](#)

(www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/).

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

COVID-19 IMPACTS

Due to the Covid-19 pandemic, staff continue to work from home focused on preparing follow up for those identified as non-filers through our mapping identification process and coalition members who failed to submit annual reports. On-farm inspections have been put on hold. We have modified our outreach to non-filers by sending a reminder letter prior to a directive letter to potential commercial irrigated landowner/operators as a softer approach during this time.

DATA MANAGEMENT AND CROSS PROGRAM COORDINATION

ILRP staff continues to develop new ways to manage data and tracking for our program. We are currently working with State Water Board staff on a GIS based platform to track our enforcement letters. We continue to work with the Confined Animal Unit to combine information into one GIS map. This map will help future outreach efforts to determine who still needs to be enrolled in the ILRP.

DRINKING WATER WELL MONITORING OUTREACH

Over 5,000 new drinking water outreach packages were recently sent to members of the San Joaquin and Delta Water Quality Coalition and the Westside San Joaquin River Water Quality Coalition. Staff is actively responding to emails and phone calls about the monitoring requirements. Drinking water well monitoring outreach continue for members in the East San Joaquin Water Quality Coalition (ESJWQC) and coalitions in the Tulare Lake Basin. ESJWQC members were required to monitor drinking water wells on enrolled parcels starting in 2019. Tulare Lake Coalition members were required to start

sampling in 2020. Board staff is continuing to work with members by providing guidance and answering questions. Within the region, there have been over 5,000 wells monitored for nitrate and nitrite as nitrogen as a result of this program, and that data is publicly available on GeoTracker.

ESJWQC members are continuing with their second year of drinking water well monitoring. Between November and December, 374 samples have been submitted to GeoTracker by 223 members/landowners with about 6.7 percent of samples exceeding the drinking water standard.

Board staff is tracking notification submittals and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. From November to December, staff sent 23 letters to ESJWQC members/landowners reminding them of the notification requirement. Staff will continue to follow up with phone calls and notices of violation, if necessary.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of December 2020, there were 1,686 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 529 signed Drinking Water Notification Templates. From November to December staff have contacted 301 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE

Notices of Violation (NOVs) were sent to members who did not 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 Nov 1- Dec 31
East San Joaquin	26
Total	26

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. Members who did not respond to our reminder letters were issued NOVs urging them to promptly provide their reports to their respective coalitions or potentially face monetary penalties.

Coalition Area	NOVs Mailed Nov 1- Dec 31
Westside San Joaquin River	13

Coalition Area	NOVs Mailed Nov 1- Dec 31
Total	13

SACRAMENTO RIVER WATERSHED COALITION GROUPS

CALIFORNIA RICE COMMISSION

On 12 December 2020, the California Rice Commission submitted the 2020 Annual Monitoring Report. The report is currently under staff review.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 16 December 2020, Central Valley Water Board staff participated in the Coalition's Management Advisory Committee Meeting. Staff provided ILRP updates during the meeting.

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

EAST SAN JOAQUIN WATER QUALITY COALITION

On 10 November, staff's review of the 2020 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 1 December, staff received the Coalition's Quarterly Monitoring Data Report for the period 1 April through 30 June 2020.

On 15 January, the Coalition submitted an addendum to the 2021 water year Monitoring Plan Update report, including an updated excel workbook of the monitoring schedule based on exceedances that occurred during the June through September 2020 monitoring period. The addendum is currently under staff review.

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

On 29 September, the Coalition submitted a surface water QAPP amendment for the list of pesticide constituents that are reassessed on an annual basis through the Pesticide Evaluation Protocol. The amendment is under staff review. Staff is collaborating with the Coalition to adjust the pyrethroid matrix spike recoveries.

On 10 November, the Assistant Executive Officer approved the Farm Conservation Plan template to be used by members enrolled in the Fish Friendly Farming program. The template will gather the required elements of the ILRP templates from participating coalition members and provide the ILRP template elements to the coalitions for their reports. Members will concurrently meet the ILRP requirements and FFF certification requirements.

On 20 November, the Executive Officer approved the Coalition's 19 October 2020 Surface Water Quality Management Plan (SQMP) and Management Practice Information Report.

On 20 November, the Executive Officer approved the Coalition's 19 October 2020 Groundwater Quality Management Plan (GQMP) and Management Practice Information Report.

On 30 November, the Coalition submitted the Annual Management Practice Implementation and Nitrogen Application Report (AMPINAR) for the 2019 Crop Year. The AMPINAR includes the Nitrogen Management Plan Summary Report (NMP SR) Analysis, updates to Farm Evaluations, and updates to the management Practice Implementation Reports. It is under staff review.

On 1 December, the Coalition submitted the 2020 quarterly monitoring report covering the period April through June 2020 monitoring results, field sheets, lab reports, and the SJCDWQC eQAPP.

On 18 December, the Coalition submitted the 5-year Groundwater Assessment Report (GAR) Update based on Order No. R5-2014-0029-05. The primary objective of this first 5-year GAR update (2020 GAR) is to revisit and determine the validity of the delineation of the vulnerability areas from the 2015 GAR. It is under staff review.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 22 October, the Coalition submitted amended Surface and Groundwater Quality Management Plans (SQMP and GQMP) to include the Management Practice Implementation Report template and processes. The Water Board sent approval on 24 November.

On 25 November, the Coalition submitted the Monitoring Plan Update (MPU) for monitoring to be conducted 1 March 2021 through February 2022. The 2021-22 MPU is currently under staff review.

On 30 November, the Coalition submitted the annual Summary of Management Practice Information Report (MPIR) and Irrigation and Nitrogen Management Plan (INMP) Summary Report, each covering the period 1 March 2019 through 28 February 2020. Staff review will begin soon.

GRASSLAND DRAINAGE AREA COALITION

On 30 November, the Coalition submitted the Annual Management Practices Implementation and Nitrogen Application Report. The report is currently under staff review.

TULARE LAKE BASIN COALITION GROUPS

KERN RIVER WATERSHED COALITION AUTHORITY

On 30 November 2020, staff provided comments to the Kern River Watershed Coalition Authority's 2019 Annual Monitoring Report, which was dated 31 August 2020. Staff noted that copper exceedances occurred at the Chanac Creek Surface Monitoring Site and that additional discussion and response by staff would be provided at a future date.

On 10 December 2020, staff provided comments to the Kern River Watershed Coalition Authority's (KRWCA's) 30 October 2020 letter that discussed copper exceedances occurring at the Chanac Creek Monitoring Site near Tehachapi, Kern County. Upon review of the data presented by the KRWCA, staff concluded that the KRWCA has not adequately demonstrated irrigated agriculture is not responsible for, or has not contributed to, the copper exceedances noted at Chanac Creek.

On 15 December 2020, staff provided specific comments regarding the applied nitrogen/nitrogen removed data presented in the Kern River Watershed Coalition Authority's (KRWCA's) 2019 Annual Monitoring Report (dated 31 August 2020).

WESTLANDS WATER QUALITY COALITION

On 7 January 2021, staff met with the Westlands Water Quality Coalition for a quarterly update.

On 1 November 2020, the Westlands Water Quality Coalition submitted proposed edits to its existing Surface Water Quality Management Plan (SQMP) and Groundwater Quality Management Plan (GQMP) to incorporate a Management Practice Implementation Report. The purpose of the Management Practice Implementation Report is to document management practices implemented by Coalition members to comply with approved SQMPs and GQMPs. The proposed edits were made available for public comment on 11 January 2021.

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 November and December, Data Management Team staff submitted 5 Kings River Watershed Coalition Authority backlogged EDDs through first quarter 2018 to SWAMP

for subsequent CEDEN loading. Staff submitted Sacramento Valley Water Quality Coalition's 3rd Quarter 2020 to SWAMP.

GRASSLAND BYPASS PROJECT

The Grassland Bypass Project annual Stakeholder meeting was held on 14 January 2021. Staff and the permittees provided project status updates and received comments and questions from participants. Stakeholders discussed concerns about the adequacy of current water quality objectives to protect aquatic life and human health.

The Grassland Bypass Project Drainage Management Plan was submitted on 6 December 2020. The submittal discusses activities and measures being conducted under Order R5-2019-0077 to meet water quality objectives for selenium, molybdenum, boron, and salinity. The public comment period will end on 1 February 2021.

NORMAN'S NURSERY

On 1 May, Norman's Nursery submitted its annual Management Plan Progress Report. Staff found that required elements of the report were missing, and the nursery agreed to submit an addendum, which was submitted on 2 November.

Staff review found that the addendum provided information demonstrating that Norman's Nursery is meeting management plan requirements for surface water nitrate exceedances but did not provide this information for groundwater nitrate exceedances. The review memo provided specific items that must be addressed in the next Management Plan Progress Report, and these were discussed in a phone meeting.

RICE PESTICIDES PROGRAM

The annual Rice Pesticide Program Stakeholder Meeting was held via a Zoom meeting on 13 November 2020. Thiobencarb monitoring results for the 2020 season were presented and discussed.

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Board staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Board staff has drafted and sent enforcement orders to each responsible party to obtain this information. There have been delays in this process due to restrictions caused by COVID-19.

On 13 May 2020, Forest Service staff submitted their deliverables under the 13267 Order issued on 10 March 2020. Board staff is currently reviewing this information.

On 15 January 2020, Board staff issued a 13267 Order requiring an updated load estimate based on recent irrigated agriculture surveys, updated management practices,

and steps outlined in their response to a previous 132670 Order. On 20 March 2020, Board staff received a request for an extended deadline to submit an updated technical report due to delays associated with COVID-19. This request was submitted to provide additional outreach and training sessions for growers to submit through a new online system and time to evaluate recent data for the technical report. Based on the continued progress of Irrigated Agriculture in assessing compliance with their load allocation, Central Valley Water Board granted Irrigated Agriculture an extension to submit the technical report. The report must be submitted by 31 March 2021.

On 22 August 2019, a Time Schedule Order (TSO) request was submitted on behalf of Lake County MS4 co-permittees. On 13 December 2019, the Board issued a TSO to the permittees. The TSO includes a schedule of when the permittees will comply with their load allocation. On 31 January 2020, Board staff received deliverables from the MS4 permittees regarding their best management practices. Board staff is currently reviewing this information. On 25 March 2020, Board staff received and approved a request for extended deadlines. On 24 June 2020, Board staff issued a Notice of Violation (NOV) for failing to meet the extended deadline for the second deliverable under the TSO. The permittees submitted the requested deliverables and Board staff has verified the NOV was fully addressed. Board staff has provided an extension on the third deliverable, which requires the permittees to submit a BMP effectiveness assessment. The deliverable date is now 01 February 2021.

On 24 September 2019, Board staff issued USBLM a 13267 Order requesting information regarding compliance with their load allocation as well as post-fire management practices. On 17 December 2019, USBLM submitted a progress report outlining the steps they are taking to estimate their load reduction. USBLM also submitted a request for a three-month extension for the submittal of their final report. Staff approved this extension. On 19 May 2020, Board staff suspended the 13267 Order until restrictions are lifted for the Ukiah Field Office staff to conduct the monitoring necessary to gather information for their load allocation. On 15 September 2020 Board staff reinstated the Order with an extended deadline of 1 February 2021.

On 10 October 2019, Board staff sent County of Lake a 13267 Order regarding their nonpoint source load allocation. On 31 January 2020, Board staff received their first deliverable from Lake County, which is a list of their management practices to reduce erosion into Clear Lake. On 25 March 2020, Board staff received a request for extended deadlines to submit a rough estimate of Lake County's load reduction due by 31 March 2020 and a final technical report that describes management practices implemented to reduce phosphorus loads to Clear Lake due by 30 June 2020. Based on the continued progress of Lake County in assessing compliance with their load allocation and restrictions caused by COVID-19 guidelines, Central Valley Water Board has granted Lake County an extension to submit the estimate and technical report. The estimate was required to be submitted by 29 May 2020 and the report was to be submitted by 31 August 2020. On 24 June 2020, Board staff issued a NOV to Lake County for failing to meet the 29 May 2020 deliverable. The County submitted the missing deliverable and the NOV was resolved. Lake County has requested an extended deadline to complete the technical report. This extension was requested by

the County in order to enter into a contract with a consultant that can assess an accurate load reduction. Board staff have provided an extension for the final deliverable, which will now be due 01 February 2021.

The Blue Ribbon Committee for the Rehabilitation of Clear Lake met remotely on 09 December 2020. Updates were provided by Committee members and UC Davis. The Committee also discussed funding issues for recommendations. 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](#)

(<https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake>).

More information about the Clear Lake Nutrient Control Program can be found on the [Clear Lake Nutrient TMDL webpage](#)

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project_s/clear_lake_nutrients/index.html).

CANNABIS

GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Table 1. Summary of the Statewide General Order enrollments in the Central Valley Region to date.

(CE = Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.)

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	3	23	4	0	26	5	0	61
Colusa	2	1	0	0	1	0	0	4
Contra Costa	2	0	0	0	1	0	0	3
El Dorado	0	4	0	0	3	0	0	7
Kern	1	0	0	0	0	0	0	1
Kings	1	0	0	0	0	0	0	1
Lake	55	146	2	0	246	2	4	455
Fresno	4	0	0	0	1	0	0	5
Merced	6	0	0	0	0	0	0	6
Nevada	18	212	3	1	11	0	0	245

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Sacramento	134	0	0	0	0	0	0	134
San Joaquin	2	0	0	0	1	0	0	3
Sierra	0	2	0	0	0	0	0	2
Solano	4	0	0	0	0	0	0	4
Shasta	12	0	0	0	0	0	0	12
Siskiyou	5	0	0	0	0	0	0	5
Stanislaus	18	8	0	0	2	0	0	28
Tulare	6	0	0	0	0	0	0	6
Totals	277	414	9	1	340	7	4	1052

OUTREACH

On 28 December, staff issued 71 informal Notices to Enroll to cultivators identified during a 24 June 2020 helicopter flyover in Nevada County. Staff will follow up with non-responsive dischargers in February.

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

COMPLIANCE

None.

ENFORCEMENT

On November 5, staff performed an enforcement inspection in Nevada County.

CYANOBACTERIA BLOOMS UPDATE

Cyanobacteria and harmful algal blooms (HABs) are a common occurrence in surface waters across California. To address this issue, a Freshwater and Estuarine Harmful Algal Bloom (FHAB) Program was developed and implemented by the State Water Resources Control Board's Surface Water Ambient Monitoring Program. The Central Valley Water Board participates in this statewide FHAB Program by investigating and responding to reports of suspected HABs.

As part of the FHAB program, a [California Harmful Algal Blooms Portal](https://mywaterquality.ca.gov/habs/) (https://mywaterquality.ca.gov/habs/) was developed and is supported on the California Water Quality Monitoring Council's [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 readily accessible and easy-to-understand information to the public on the environmental and human health effects from HABs. Resources available include a map showing locations where HABs have been reported, fact sheets on identifying cyanobacteria blooms, and guidance on healthy habits the public can take to protect themselves and their pets from HABs. For health departments and water body managers, the portal includes guidance documents on sampling and posting advisory signs, sign templates, and information on control and treatment options.

FALL/WINTER 2020/21 – CENTRAL VALLEY BLOOMS

Cyanobacteria blooms typically occur from summer through late fall when temperatures are at their highest. However, blooms can occur in the winter and spring, especially if temperatures are mild and nutrients are introduced from rainfall runoff. A summary of cyanobacteria blooms for the period from 13 November 2020 to 14 January 2021 is provided in Table 1 below.

Table 1. Cyanobacteria Bloom Summary: 13 November 2020 to 14 January 2021

Category	Count
Number of Suspected Blooms Investigated since previous EO Report	6
Number of Confirmed Blooms* since previous EO Report	4
Number of Continuing Blooms* from previous EO Report	4
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	4
Number of Human Illnesses Reported since previous EO Report (under investigation)	0
Number of Animal Impacts Reported since previous EO Report (under investigation)	1 [§]

* Confirmed and continuing blooms are identified through response actions by Board staff or by monitoring programs conducted by other stakeholders.

[§] Animal impact was a reported dog death at Lake of the Springs (Mildred Lake), Yuba County.

GRANTS

CLEAN WATER ACT §319(h) NONPOINT SOURCE GRANT SOLICITATION

Approximately \$4 million each year 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.

For more information, please visit the [NPS website](#)

(https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html).

The 2021 Clean Water Act section 319(h) Grant Solicitation closed on 18 December 2020. State Water Board and the Regions are in the process of reviewing applications. Projects selected for funding will be notified after the review process is complete.

A copy of the Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage](#) at:

(https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html)

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. A time extension was requested in September 2020 due to delays with subcontracting and COVID restrictions. The request was approved, and the grant was extended to February 2024. (Closing 2/28/2024)

SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$511,160)

In 2012 the greater Battle Creek watershed was impacted by the Ponderosa wildfire. The resulting increases in post fire stormwater runoff has led to continual discharges of sediment, metals, nutrients, and other pollutants to the adjacent streams, threatening aquatic wildlife (threatened and endangered species) and public health (drinking water). A 3.5 mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E (Project Area), was identified and prioritized as an area which needed sediment and erosion control treatments to minimize the continued discharges of sediment to South Fork Battle Creek. In 2019 a grant application proposal was prepared by the

Tehama County Resource Conservation District (TCRCD) and was submitted to the State Water Resource Control Board (SWRCB). The proposal outlined implementation of the identified erosion and sediment control measures for the Project Area. In April 2020, the SWRCB approved the use of CWA 319 grant funds for the proposed project. In August 2020, the TCRCD submitted an updated Statement of Work and Budget to the SWRCB for review and consideration. The SWRCB is working to finalize a grant agreement with the TCRCD to implement the proposed project. (Closing 2/28/2022)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

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

The Tehama County Resource Conservation District has conducted a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). The survey will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. The demonstration project will serve to illustrate potential implementation measures that result in sediment reduction along Ponderosa Way in the Project Area. The demonstration project was fully implemented and completed during November and December of 2020. Staff is scheduled to attend a final inspection and certify the demonstration project was executed fully and in accordance with the grant agreement by the end of this month. (Closing 2/28/2021)

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

During the 11th quarter reporting period (July 1, 2020-December 31, 2020) the Butte County RCD (BCRCD) worked with Pacific Watershed and Associates (PWA), Butte County Public Works (BCPW), and Central Valley Waterboard staff to finish the project deliverables. The last remaining item is finalizing the project report and conducting the last public workshop. The final public workshop will be held virtually on Thursday, January 21st. The project is on schedule to be completed on time and within the proposed budget. During this period BCRCD and PWA conducted a post construction site tour with Central Valley Waterboard staff to review the completed work. (Closing 2/28/2021)

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. A time extension was approved allowing for extra time to synthesize and quantify data collected over the course of this study. The grantee has completed their manuscript titled "Factors Affecting Connectivity

and Sediment Yields Following Wildfire and Post-Fire Salvage Logging in California's Sierra Nevada", published in the journal Hydrological Processes. The project is now finalizing results in anticipation of completion. (Closing 3/31/2021)

BATTLE CREEK WATERSHED ROAD SEDIMENT REDUCTION PROGRAM PHASE 1 & 2 (\$406,350)

The Western Shasta Resource Conservation District has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. The grantee has compiled and prioritized all road-related sediment inputs described in the road assessment inventory into a final Action Plan report. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works have participated in on-site training during implementation and completion of two demonstration sites along Rock Creek Road and Forward Mills Road. The grantee continues to facilitate progress on permitting, contracting, and compliance in preparation for implementation of additional demonstration sites. (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)

The purpose of this project is to implement erosion control treatments to reduce sediment delivery to streams from Forest Service system roads, unauthorized roads, legacy skid trails, and landings within the North Yuba River Watershed. American Rivers Inc. have inventoried approximately 67 miles of roads, skid trails, and landings within the project area and have prepared an Action Plan to implement at least 15 miles of erosion control treatments. The grantee completed implementation work for the Deer Creek North Yuba River Watershed Sediment Reduction Project on 16 September 2020. Work has progressed without any major delays or deviations. With construction work completed, the grantee is preparing for post-construction monitoring and wet-season inspections to be completed this winter. (Closing 2/28/2022)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and

currently the grantee is looking at upgrading the road network throughout the project area. All deliverables due have been submitted to date. The total spent is roughly 59% and the project remains slightly ahead of schedule (Closing 3/30/2022)

UPPER BIDWELL PARK ROAD AND TRAIL SEDIMENT SOURCE ASSESSMENT AND REDUCTION PROJECT (\$706,352)

The purpose of this project is to address the discharge of sediment from Upper Bidwell park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. The grantee is currently working with contractors, CA Department of Fish and Wildlife (CDFW), and the Regional Water Board on the preparation of environmental permit applications which was slightly delayed while addressing a public concern. The grantee has completed final design specifications as well as started road and trail inventories for the second phase of the project. In preparation for any potential concerns that could be raised by community environmental organizations and members of the public, City Park & Natural Resources Manager requested a more extensive survey of the trees/vegetation to be removed during construction be conducted. None of the species to be removed are threatened or special status or were of concern by CDFW. (Closing in 2023)

KING FIRE SIGNIFICANT EXISTING AND POTENTIAL EROSION SITES (SEPES) (\$266,366)

The purpose of the project is to fix select priority Significant Existing and Potential Erosion Sites (SEPES) on the Eldorado National Forest (ENF) that were identified on haul routes associated with timber sales implemented under the King Fire Restoration Project (KFRP). Stream crossing structure replacement, road drainage improvements, road reconditioning, armoring of structures, rebuilding of fill slopes, and landslide removal are among the work expected. Funding will be used to replace multiple large failed and at-risk stream crossing structures with an emphasis on designing crossings to accommodate a 100-year event, plus associated sediment, and debris. CEQA has been completed. A Notice of Exemption was approved and concurred by State Board in July and filed with the Clearinghouse on August 26th, 2020. The grantee has recently submitted their project assessment and evaluation plan as well as their proposed schedule of operations. (Closing 6/30/2023)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

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

On 16 November, Russell Walls participated (via conference call) in the Madera County Environmental Crimes Task Force meeting.

*On 17 November, Lourin Hubbard participated (via conference call) in the Fresno Environmental Reporting Network task force meeting to review and provide updates

regarding environmental complaints lodged by various disadvantaged community groups and members.

On 18 November, Alex MacDonald presented Aerojet updates to the Aerojet Community Advisory Group highlighting field activities undertaken by Aerojet. This included construction of new monitor wells, cleanup at Area 40 and adoption of CEQA document for the Aerojet Waste Consolidation Unit. A discussion was also provided on the occurrence of PFAS in groundwater at Aerojet and the proposed construction of a consolidated waste management unit on the old White Rock Road North dump to take in contaminated soils.

*On 19 November, Omar Mostafa 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 8 December, Lourin Hubbard participated (via conference call) in the Fresno Environmental Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On 17 December, Omar Mostafa and Lourin Hubbard 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 5 January 2021, Rebecca Hipp participated in a Board of Forestry and Fire Protection public workshop on potential revisions related to exemptions with the Forest Practice Rules for conversions and public agency/utility right-of-way clearance and maintenance timber operations.

*On 12 January, Lourin Hubbard participated (via conference call) in the Fresno Environmental Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On 12 January 2021 Robert L'Heureux, Bryan Smith, Jeremy Pagan, Jim Marshall, and Adam Laputz virtually met with members of the Pit River Tribe to discuss water quality concerns in and around the Tribe's current and ancestral lands. Central Valley Water Board staff addressed the Tribe's questions and agreed to inform the Tribe of future inspections in the areas of their concerns. Additionally, Central Valley Water Board staff reached out to staff at the Division of Water Rights to contact the Pit River Tribe and assist them with their questions with respect to water rights.

On 14 January 2021, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and

Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. The Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. This month's meeting discussed membership recruitment for open member positions on the committee. The meeting also included discussions of upcoming regional trainings, a presentation by the Department of Fish and Wildlife's, Office of Spill Prevention and Recovery staff on their development of a Lower Sacramento River Geographic Response Plan (GRP). This GRP will cover responses to spills that may occur along the Sacramento River from the City of Redding to the City of Sacramento. Participating agencies also provided agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

*On 19 January 2021, Board staff sent emails to Tribes with a potential interest in Goose Lake to inform them that ILRP staff are developing recommendations for possible alternative regulatory frameworks for the Goose Lake watershed. Included in the emails was an invitation for the Tribes to meet with Board staff to discuss the recommendations.

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 Work Plan based on feedback from the State Water Board and Central Valley Water Board staff, which was approved by the Delta Regional Monitoring Program in July 2018.

Sampling events for sediment, fish, and clams in Year 1 have been completed, and the first water sampling event of the year has also been completed. Analyses of these samples are being completed by different labs, so data for some analytes have been submitted to the Aquatic Science Center (ASC) for review while others are still being analyzed. Current rain events have not met conditions for ASC to mobilize to collect for the first flush rain event, and limited fieldwork is being conducted due to the recent surge in coronavirus cases. The circumstances are continuing to be evaluated to conduct this sampling event in case a large rain event is predicted.

CAMP FIRE

The Dixie Road project is for the purpose of implementing forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Since the last update, The Draft 1600 permit has been submitted to California Department of Fish and Wildlife. Cultural Resources Surveys have been completed along with the Botany surveys. The CEQA NOE has been filed and continued communications with Plumas National Forest NEPA team about project and needs for CEQA should provide all other permits and specialist surveys upon completion. Construction schedule has been delayed and the current goal is to begin work summer of 2021. The project should go out to bid early 2021.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – NOVEMBER 1, 2020 – DECEMBER 31, 2020

PROMOTIONS:

Eraldo Melara – EG

LEAVE OF ABSENCE:

None.

NEW HIRES:

David Durette – SR. WRCE

RETIREMENT:

Stewart Black – SUP. EG

Brian Newman – SUP. WRCE

Gerald Djuth – SR. EG

Debra Mahnke – WRCE

SEPARATIONS:

None.

SUMMARY OF POSITIONS:

Total Authorized Positions: 271.7

Total Vacant Positions: 27.5

Sacramento

Authorized Positions: 147

Vacancies: 21.5

Fresno

Authorized Positions: 75

Vacancies: 6

Redding

Authorized Positions: 49.7

Vacancies: 1

Temporary Positions

New Hires:

Patricia Basaldua Sanchez – SA

Natalie Bainbridge – SC

Separations:

Richard Ramirez – SA

Alice Lopes – SA

TRAINING UPDATES - November 1, 2020 – December 31, 2020

Class Title	Number of Attendees
8-Hour HAZWOPER Refresher	30
Advanced Facilitation: Difficult Situations and Behaviors	2
Advanced Facilitation: Small Group Meetings	1
Advanced Project Management	1
Art & Science of Motivation & Morale	3
ATV Rider Course	3
Cannabis Inspection Awareness	1
Chemistry Refresher	17
Creating Accessible Adobe PDF Documents	6
Creating Accessible Word Documents	12
Defensive Driver Training	1
Economics in the Regulation Rulemaking Process	1
EEO: Workplace Rights and Responsibilities	9
Environmental Sequence Stratigraphy	22
Facilitating Remote Meetings	4

Class Title	Number of Attendees
Intermediate Communicating Effectively in Complex Organizations	6
Interpersonal Communication Skills	5
Introduction to Forwarding Change	2
Introduction to Project Management	5
Principals of Contaminant Transport and Fate in Soil and Groundwater	13
Seismic Design Review	1
Stormwater Chemistry Monitoring and BMP Effectiveness	15
Trust and Legitimacy: Understanding implicit bias and its impact on workplace diversity and trust in the community	4

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
20-012-150	TBD	Helicopter aerial surveillance services (Consolidated Region 5 contract – SB 901 funds)	TBD	TBD	\$185,000

WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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	01/31/2021	\$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	03/31/2021	\$400,000
18-084-150	Southern California Coastal Water Research Project Authority	To organize and facilitate a Surface 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	4/17/2019	01/30/2021	\$249,806
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.	9/27/2019	03/31/2022	\$510,000
19-004-150	34 North	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	11/21/2019	3/31/2022	\$95,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	6/30/2022	\$525,000
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	TBD	11/30/2023	\$250,000
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	TBD	1/31/2023	\$200,000

FUTURE BOARD ACTIVITIES

APRIL 2021 BOARD MEETING

NPDES PROGRAM – PERMITS

- Mariposa Public Utility District WWTF Rescission
- Nevada CSD No. 1 Cascade Shores WWTP Rescission
- Sacramento Regional WWTP Renewal
- Bell Carter Industrial WWTP Renewal
- Donner Summit Public Utility District WWTP Renewal
- Sixteen-to-One Mine Renewal
- Chester PUD Sewage Treatment Plant Renewal
- Olivehurst PUD WWTP Renewal
- City of Galt WWTP Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- GloriAnn Farms (Tracy Holdings), Revised WDRs
- Peltier Winery, Revised WDRs
- City of Los Banos WWTF, Revised WDRs
- City of Corcoran WWTF, Revised WDRs
- Grimmway Shafter Facility, Revised WDRs
- Jamestown WWTF, Revised WDRs

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Fink Road Landfill, Revised WDRs
- BENA Landfill, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- ILRP General Order Updates for CV-SALTS, Info Item

JUNE 2021 BOARD MEETING

NPDES PROGRAM – PERMITS

- Sequoia/Kings National Park Rotenone Application, New
- Sierra Pacific Industries, Quincy Division Renewal
- City of Live Oak WWTP Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto WWTF, Revised WDRs
- California Concentrates, New WDRs
- Wonderful Pistachios Lost Hills, Revised WDRs
- Azteca Mining, Revised WDRs

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Blue Hills Disposal Facility, Revised WDRs
- SPI Martell, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- Drinking Water Well Monitoring – Info Item
- Goose Lake Alternative Framework – Resolution or Info Item

AUGUST 2021 BOARD MEETING

NPDES PROGRAM – PERMITTING

- City of Grass Valley WWTP Rescission
- Sewerage Commission Oroville Region WWTP Renewal
- City of Auburn WWTP Renewal
- Limited Threat General Order Renewal
- Bear Valley Water District WWTF Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bronco Winery, Revised WDRs

- Dunnigan WWTF, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- External Expert Panel Review of East San Joaquin Coalition’s Surface Water Monitoring Framework – Info Item

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PERMITS

- Mountain House CSD WWTP Amendment
- Santa Fe Aggregates Sand and Gravel Plant Renewal
- Bear Valley CSD WWTF Renewal
- City of Chico WPCP Renewal
- City of Nevada City WWTP Amendment
- Sterling Caviar Fish Hatchery Renewal
- City of Lathrop WWTP (New Permit)
- Sliger Mine Renewal
- City of Colusa WWTP Renewal

CONFINED ANIMAL FACILITIES

- Revision of Dairy General Order, Revised WDRs

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Large Domestic WWTF General Order, New WDRs
- Nut Dryers and Hullers General Order, New WDRs
- Food Processors General Order, New WDRs
- America Raisin Packers, Revised WDRs
- City of Kettleman WWTF, Revised WDRs
- Rawson Road Septage Facility, Revised WDRs
- Salad Cosmo, New WDRs
- JR Simplot, Revised WDRs
- Grayson WWTF, Revised WDRs
- Bogle Delta Winery, Amended WDRs
- Stewart & Jaspers, New WDRs
- Dunnigan Water Works, Revised WDRs
- Mule Creek State Prison, Amended WDRs
- Wonderful Pistachios, Lost Hills, Revised WDRs
- Oroville WWTP, Renewal

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 November 2020 through 31 December 2020

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	86	53%
Debris-General	24	15%
Grease Deposition (FOG)	16	10%
Other (specify below)	6	4%
Debris from Lateral	5	3%
Operator error	5	3%
Construction Diversion Failure	3	2%
Debris-Rags	3	2%
Pipe Structural Problem/Failure	3	2%
Pump Station Failure-Mechanical	3	2%
Debris from Construction	2	1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	1%
Damage by others not related to CS Construction/Maintenance	1	1%
Debris-Wipes/Non-Dispersables	1	1%
Pipe Structural Problem/Failure - Installation	1	1%
Pump Station Failure-Controls	1	1%
Rainfall Exceeded Design, I and I (Separate CS Only)	1	1%
Vandalism	1	1%
Total	163	100%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 November 2020 through 31 December 2020

Office	Category 1	Category 2	Category 3	Total
5F	0	1	9	10
5R	0	0	6	6
5S	18	2	127	163
Total	18	3	142	163

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) – 1 November 2020 through 31 December 2020

Region	Agency	Collection System	SSO Event ID	County	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	Spill Date	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871482	Sacramento	Yes	2,991	2,880	12/24/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	870789	Sacramento	Yes	2,290	2,223	11/20/2020	Construction Diversion Failure
5R	Shasta Lake City	Shasta Lake CS	871365	Shasta	Yes	600	600	12/31/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871176	Sacramento	Yes	680	567	12/18/2020	Debris-General
5S	Oakdale City	Oakdale CS	871100	Stanislaus	Yes	531	419	12/18/2020	Debris-General
5S	South Placer MUD	South Placer Mud CS	870594	Placer	Yes	448	415	11/23/2020	Debris from Lateral
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871342	Sacramento	Yes	403	374	12/26/2020	Root Intrusion

ATTACHMENT A

Region	Agency	Collection System	SSO Event ID	County	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	Spill Date	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871096	Sacramento	Yes	416	251	12/13/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	870899	Sacramento	Yes	263	193	12/8/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871074	Sacramento	Yes	172	164	12/15/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871363	Sacramento	Yes	126	105	12/28/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	870424	Sacramento	Yes	20	17	11/13/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	870759	Sacramento	Yes	60	7	11/30/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	871300	Sacramento	Yes	30	1	12/23/2020	Root Intrusion