

**EXECUTIVE OFFICER'S REPORT**

**27-28 APRIL 2023**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION**

**PATRICK PULUPA, EXECUTIVE OFFICER**



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# STAFF RECOGNITION

## SUPERIOR ACCOMPLISHMENT AWARDS

At the February 2023 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

### **EMPLOYEE: PAUL DOTSON**

**UNIT:** Site Cleanup

**LOCATION:** Fresno

**TITLE:** Engineering Geologist

**SUPERVISOR:** Warren Gross, Sr. Engineering Geologist

Paul is an Engineering Geologist in the Central Valley Water Board's Fresno Office as part of the Site Cleanup Unit. Paul is being recognized for his outstanding work performance on facility inspections and facility document reviews/responses. Paul joined the Central Valley Water Board in 2017 and has applied his past consulting experience and technical skills to effectively regulate and bring into compliance the facilities he oversees.

Paul has been a consistent performer in the Site Cleanup Unit, providing insightful data interpretations from complex data sets while proving outstanding responsiveness by responding in a timely manner. During this quarter, through a variety of letters (and additional emails and phone calls), he advanced progress on two oil pipeline spill corrective actions, four dry cleaner cases, two PFAS assessment workplans, a 1,2-3-TCP assessment, an AST case, two high-speed rail cases, and a complex groundwater pollution case in Mendota. Paul coordinates with Department of Finance staff on an on-going basis, keeping dry cleaner work funded by SCAP grants.

Paul serves on two technical advisory committees that are guiding corrective action for two regional chlorinated volatile organic compound plumes. Paul also manages Site Cleanup Unit Department of Defense projects, including work for Naval Air Station Lemoore and Crow's Landing, and the various hoops and hurdles necessary for oversight of federal government work.

Paul is an asset of the Site Cleanup Unit. Paul brings years of environmental corrective action experience to bear in helping stakeholders, staff, and in the efficient review and comment on work plans and reports. Paul carries with him a level of professionalism and dedication that well represents the Central Valley Water Board. I am recommending that Paul receives this award.

## EMPLOYEES: COVID TRACING TEAM

**UNITS:** Multiple

**LOCATIONS:** Multiple

**TITLES:** Multiple

**SUPERVISORS:** Multiple

Employee Name	Classification	Office
Bethany Soto	Environmental Scientist	Fresno
Camille Hang	Associate Governmental Program Analyst	Rancho Cordova
Hien Tran	Associate Governmental Program Analyst	Rancho Cordova
Holly Grover	Environmental Scientist	Rancho Cordova
Jenna Yang	Environmental Scientist	Rancho Cordova
Marilyn Petruescu	Engineering Geologist	Rancho Cordova
Peter Minkel	Engineering Geologist	Rancho Cordova
Bryan Rock	Engineering Geologist	Fresno
Debra Hollis	Engineering Geologist	Redding
Ron Falkowski	Engineering Geologist	Redding

## EMPLOYEE RECOGNITION AWARDS FEBRUARY 2023 THROUGH MARCH 2023

At the February and March 2023 All Staff Meetings, Executive Officer Pulupa presented Employee Recognition Awards to the following staff in the Rancho Cordova office:

### EMPLOYEE: ASHLEY PETERS

**UNIT:** Irrigated Lands Regulatory Program

**LOCATION:** Rancho Cordova

**TITLE:** Water Resources Control Engineer

**SUPERVISOR/TITLE:** Petra Lee, Senior Environmental Scientist Supervisor

Ashley is receiving this award for her outstanding accomplishments in the Irrigated Lands Regulatory Program. I appreciate Ashley's dedication, organization, thoroughness, and knowledge, especially with her preparations for the Grasslands Bypass Project Annual Meeting. She had to bring together a diverse group of presenters, permittees, and interested parties for this year's meeting; watching her bring all these people and pieces of the meeting together was remarkable.

Ashley's behind-the-scenes and well-organized planning made for a smooth annual meeting. She worked so that the presentations were clear and cohesive to interested parties and that questions and concerns were addressed appropriately. Her knowledge

and explanations of selenium and the history of the area made it easy for me to follow complex issues.

Ashley has brought competence, expertise, commitment, and skill to the ILRP and the projects that she leads. Many thanks to Ashley!

## **EMPLOYEE: HOLLY YOUNG**

**UNIT:** Site Cleanup Program

**LOCATION:** Rancho Cordova

**TITLE:** Engineering Geologist

**SUPERVISOR:** Kristin Shelton, Sr. Water Resource Control Engineer

Holly Young is an Engineering Geologist in the Site Cleanup Program Federal Facilities/DOD Cleanup Unit. Holly oversees cleanup activities at both private sites and DOD facilities. In addition to her regular case load, Holly is the Office of Emergency Services (OES) contact for the Rancho Cordova office. In this role, she receives and triages the numerous reports of spills and discharges and tracks the response activities. She frequently needs to interact with other Sections, Units, Central Valley Water Board offices, and sister agencies to ensure the OES reports are appropriately managed. Holly is also currently updating the Region's Emergency Response Plan in coordination with management and State Board contacts to ensure our Region complies with State Board and OES Resolutions.

In November 2022, Holly received an OES notification of a large spill from a previously unknown diesel aboveground storage tank (AST). The release caused impacts to a nearby public park, recreational use pond, and City of Sacramento stormwater drainage canal. Holly collaborated with the representatives from EPA, Fish and Wildlife, Sacramento County, State Board, OES, and the City of Sacramento involved in the incident to address our concerns. She conducted numerous meetings, site visits, and coordinated appropriate transfers of oversight authority between agencies in accordance with the Incident Command process. Once the immediate incident response was complete, Holly collaborated with the Responsible Party to get the site into our cost recovery program and continue to assess the Site. Holly keeps frequent contact with multiple stakeholders and provides updates to management on project status.

Holly is a valuable member of the Site Cleanup Program. She consistently provides high quality written reviews of reports from dischargers and is responsive and respectful to the regulated community. She demonstrates patience when engaging with difficult stakeholders. Her attention to details is evident in the work products. For all this and more, Holly is well-deserving of this Employee Recognition Award.

**EMPLOYEES: CV-SALTS GROUP (TRUE KHANG, CINDY AU-YEUNG, HANNAH DAILEY AND JENNIFER FULLER**

**UNIT:** CV-SALTS

**LOCATION:** Rancho Cordova

**TITLES:** Multiple

**SUPERVISOR:** Meredith Howard, Environmental Program Manager I

True Khang, Cindy Au-Yeung, Hannah Dailey, and Jennifer Fuller are highly valued members of the Planning Section, and they are being recognized for their efforts to implement the Central Valley Salinity Alternatives for Long-term Sustainability (CV-SALTS) Program, a high priority program for the Central Valley Water Board. The implementation of the CV-SALTS program is complex, as it involves the entire Central Valley, affects many programs at the Central Valley Water Board, and includes both salt and nitrate control programs with multiple pathways to compliance.

One of the pathways to compliance under the Nitrate Control Program provides permittees the option of working collectively with other permittees through a Management Zone. This option requires Management Zone plans to be submitted to the Board, released for public comment, and approved by the Board. Additionally, permittees are required to develop a robust plan to provide interim drinking water to people in the vicinity of the discharge who are affected by nitrate contamination, known as Early Action Plans, which also require Board approval.

True, Cindy, Hannah, and Jennie comprise the hard-working team of CV-SALTS staff that have diligently overseen these complex elements of CV-SALTS implementation including reviewing plans, and proposals and providing responses to public comments and concurrence letters. Their work has been critical for keeping the complex and challenging implementation of the CV-SALTS program on track.

We are fortunate to have True, Cindy, Hannah, and Jennie working at the Central Valley Water Board, and they are well deserving of this award.

At the March 2023 All Staff Meeting, Assistant Executive Officer Clint Snyder presented an Employee Recognition Award to the following staff in the Redding office:

**EMPLOYEE: VICTOR BAUTISTA**

**UNIT:** Irrigated Lands Regulatory Program

**LOCATION:** Redding

**TITLE:** Environmental Scientist

**SUPERVISOR:** Lynn Coster, Senior Environmental Scientist

Victor Bautista is receiving this award for his outstanding work in the Irrigated Lands Regulatory Program. Victor joined the Central Valley Water Board in May 2022 as an Environmental Scientist and in this brief time has made considerable contributions to the Program. Victor serves as the liaison to the Sacramento Valley Water Quality

Coalition (SVWQC, Coalition), a third-party group that represents growers in the Sacramento River Watershed and has quickly gained the respect of the delegates of the sub watersheds that constitute the SVWQC. Through his participation in Coalition meetings, he has formed personal relationships and has proven to be responsive and professional in his work.

Victor is eager to learn and take on new challenges. In the Fall of 2022, Victor took on the challenging task to determine whether data supported the exemption of irrigated agriculture in the Upper Feather River subwatershed from the Irrigated Lands Regulatory Program. Over several months, Victor participated in on-site farm inspections and outreach meetings with growers; reviewed complex technical data; and worked collaboratively with the U.C. Davis Cooperative Extension to demonstrate the sub watershed's low threat to water quality from agricultural operations. Victor successfully presented his findings to the Central Valley Water Board, who adopted his recommendation to exempt the subwatershed from the current Irrigated Lands requirements.

In his position, Victor is often required to juggle multiple work items and various demands of his time. He follows through with his many tasks and is conscientious and hard working. His positive attitude and aptitude to learn are an asset to the program. The Central Valley Water Board is fortunate to have Victor as part of its staff and appreciates his contributions.

At the March 2023 All Staff Meeting, Assistant Executive Officer Clay Rodgers presented an Employee Recognition Award to the following staff in the Fresno office:

**EMPLOYEE: JEFFREY PYLE**

**UNIT:** Waste Discharge Requirements

**LOCATION:** Fresno

**TITLE:** Engineering Geologist

**SUPERVISOR/TITLE:** Alexander Mushegan, Senior Engineer

Jeff Pyle is a vital asset to the WDR unit. His years of programmatic experience and in-depth knowledge of Central Valley geology allow him to take on some of the most challenging projects in the region and in our office. He is a valuable resource to other staff in the office and is often asked for advice on their projects. He consistently provides thorough reviews of the technical reports assigned to him. Jeff also provides excellent customer service to those he interacts with. Even when handling contentious issues with a discharger or concerned citizen, he can always be trusted to show the utmost professionalism.

There have been multiple vacancies recently in the WDR program, and Jeff has stepped up to the plate to help complete former staff's projects as well as keep up with his own projects. Some of the recent work Jeff has completed include:

- Responding to various public inquiries;

- Becoming familiar with the new Statewide General Order and assisting dischargers with starting the application process;
- Circulating tentative WDRs for the April Board meeting;
- Working on applications for the Small Domestic General Order;
- Prepared an in-depth review of a dischargers Groundwater Monitoring Well Network and prepared a 13267 letter to address issues he identified at the site; and
- Conducted an in-depth review of a proposed groundwater monitoring well network and pond liner work plan for a new slaughterhouse in Lemoore.

## **PROGRAM REPORTS**

### **BASIN PLANNING**

#### **TOTAL MAXIMUM DAILY LOAD (TMDL) PROGRAMS**

##### **PESTICIDE TMDLS**

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 TMDL, are fully approved and effective.

Board staff continue to work with MS4s, wastewater, and agricultural dischargers under the program to meet the baseline monitoring and management plan requirements in the Control Program for Pyrethroid Pesticide Discharges.

On 13 July 2020, Board staff sent orders under Water Code sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin River 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. Phase II MS4 permittees under the Order had the option to either 1) submit Baseline Monitoring Plans (Plans) by 28 February 2021, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan (PMP) due to the Board by 19 August 2021.

All but one (City of Modesto) of the five Phase I MS4 permittees have complied with the Orders and submitted Plans by the 1 December 2020 deadline. Four of the five Phase I MS4 permittees reported exceedances of the prohibition triggers. Two of these

permittees are already implementing their required PMP, and Board staff have solicited revisions to the PMPs submitted by the other two permittees. These revised PMPs are expected in June and November of 2023.

Six Phase II MS4 permittees selected the baseline monitoring option and received subsequent approval of their Baseline Monitoring Plans. The Baseline Monitoring Plan for four Lake County Phase II co-permittees was approved on 6 October 2022 with the expectation that baseline monitoring would be initiated in Fall 2022. Three of the Phase II MS4 permittees (Cities of Davis, Los Banos, and Woodland) reported exceedances during baseline monitoring, and in accordance with the Order, submitted PMPs in September and October 2022. The PMPs for the Cities of Los Banos and Davis were approved in October 2022. The PMP for the City of Woodland was approved in January 2023. Baseline Monitoring Reports from the Cities of Redding and Chico were approved in late 2022, fulfilling the responsibilities of these cities under the Order.

Board staff received notices of intent to submit a PMP from 48 Phase II MS4 permittees. Of those 48 Phase II MS4 permittees, 44 submitted PMPs. Of those original submittals, 22 PMPs were approved and letters requesting revisions were sent to the remaining 22 Phase II MS4 permittees. Revised PMPs have been approved for 13 Phase II permittees. Remaining outstanding revisions are expected on or before 30 June 2023. Four Phase II MS4 permittees did not submit a PMP in accordance with the Order. Of these four, the Cities of Madera and Red Bluff submitted and subsequently received approval of their PMPs in October 2022 and January 2023, respectively. Board staff continue to work with the Phase II MS4 permittees (9) whose PMPs require revisions and the Phase II MS4 permittees (2) that did not submit PMPs.

## **DELTA METHYLMERCURY CONTROL PROGRAM/TMDL**

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). The first Review Panel evaluated seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges.

A second Review Panel reviewed the open water modeling and tidal wetlands reports and submitted a Final Report on those studies to the Delta Stewardship Council's Delta Science Program on 9 July 2021. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP.

ADA-compliant versions of the [Review Panel's Final Reports](#) can be viewed here:

(<https://deltacouncil.ca.gov/delta-science-program/independent-science-review-of-the-delta-mercury-control-program>)

On 24 February 2021, Board staff conducted a virtual public workshop and CEQA scoping meeting. Representatives from various stakeholder groups (including

wastewater, stormwater, irrigated agriculture, and state/federal agencies) attended and provided verbal comments. Tribal representatives were also present. Four entities submitted written comments that will be considered in the development of the DMCP Review and are included within the administrative record.

Board staff are continuing to review and incorporate more recent data and methodologies, including information provided in the control and characterization studies, to determine if there are any needed modifications to the DMCP. Board Staff expect to initiate the Scientific Peer Review process in summer 2023.

More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](#) here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/delta\\_hg/](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/))

### **DISSOLVED OXYGEN TMDL**

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. The water quality objective is 5 mg/L December through August and 6 mg/L September through November in the channel.

From 19 January through 23 March 2023, no excursions were detected exceeding the water quality objective. However, in September 2022, the Port of Stockton initiated the aerators, only to experience technical issues. One pump ran for a brief time then shut down and a short time later the other pump failed. Currently, both pumps are being repaired, one pump has been removed and the other is in place. There is no estimated timeframe for the pumps coming back on-line.

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

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

### **CLEAR LAKE NUTRIENT CONTROL PROGRAM/TMDL/BLUE RIBBON COMMITTEE**

Board staff began initiating the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and

projects in the watershed, including the Board’s Environmental Driver’s study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Implementation of the existing TMDL will continue. Board staff attended the quarterly Blue Ribbon Committee meeting, which focused on project proposal presentations being considered by the Committee.

More information can be found on the [Clear Lake Nutrient TMDL website](#) at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/clear\\_lake\\_nutrients/](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/))

More information regarding the Committee can be found on the Natural Resources Agency’s [Blue Ribbon Committee website](#) at:

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

## **LOWER SAN JOAQUIN RIVER SALT AND BORON TMDL**

On 17 January 2023, the United States Bureau of Reclamation (USBR) submitted their 2022 Management Agency Agreement Annual Report. The Annual Report summarizes activities conducted by USBR in fiscal year 2022 under the Management Agency Agreement to meet obligations assigned to it by the Salt and Boron TMDL for the lower San Joaquin River. These activities were previously described in an Annual Work Plan submitted by USBR and approved by the Central Valley Water Board.

The Report is available on the [USBR website](#) for the Program to Meet Standards here:

(<https://www.usbr.gov/mp/ptms/docs/maa-2022-annual-report.pdf.pdf>)

## **CV-SALTS/SALT CONTROL PROGRAM**

### **SALT PRIORITIZATION AND OPTIMIZATION (P&O) STUDY**

On 9 February 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller, Hannah Dailey, Cindy Au-Yeung, and True Khang) attended a CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Salt Control Program topics included updates on the progress of the Salt Control Program P&O Study and an update on the SAMP development.

On 9 February 2023, Central Valley Water Board Executive (Adam Laputz) and Staff (Jennie Fuller and Hannah Dailey) attended a Regulatory and Policy Issues Small Group Meeting regarding implementation of the Salt Control Program Prioritization and Optimization Salinity Study currently underway.

On 9 March 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller, Hannah Dailey, Cindy Au-Yeung, and True Khang) attended a CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Salt Control Program topics included updates on the progress of the Salt Control Program P&O Study (including updates on the regulatory and policy issue approach, an overview of the baseline modeling approach, the Data Management System implementation update, and the Draft Year 1 Progress Report).

On 9 March 2023, Central Valley Water Board Executive (Adam Laputz) and Staff (Jennie Fuller and Hannah Dailey) attended a Regulatory and Policy Issues Small Group Meeting regarding implementation of the Salt Control Program Prioritization and Optimization Salinity Study currently underway.

On 23 March 2023, the Central Valley Salinity Coalition Surveillance and Monitoring Program Workplan for the Salt and Nitrate Control Programs was approved by the Central Valley Water Board.

## **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 Meeting 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 Board Meeting.

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/](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/))

## **OIL FIELD SALINITY BASIN PLANNING ACTIONS**

Groundwater within the Tulare Lake Basin is designated to have both Municipal and Domestic (MUN) and Agricultural Supply (AGR) beneficial uses, unless specifically re-designated by a Basin Plan Amendment (BPA). The need for evaluating appropriate beneficial uses, specifically for MUN and AGR has been recognized by stakeholders and the Central Valley Water Board through the 2011, 2013, 2018 and 2021 Triennial Reviews. In addition, the Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS) initiative also identified the need to evaluate the level of protection of MUN and AGR beneficial use as an essential activity of the CV-SALTS initiative to find solutions to the salt problem in the Central Valley. There are several basin planning evaluation efforts underway.

The Central Valley Water Board adopted a BPA to de-designate MUN and AGR use in groundwater within a portion of the Southern Lost Hills Oilfield in June 2022. The State Water Board approval hearing was originally scheduled for 6 December 2022 but has been postponed. The State Board approval hearing will be rescheduled once the State Water Board staff have completed their review.

The California Independent Petroleum Association (CIPA) submitted information relevant to evaluate MUN and AGR designations on the southwestern portion of the Tulare Lake Basin in western Kern County. Both Board staff and the Central Valley Salinity Coalition have reviewed the information and provided feedback to CIPA's consultant. CIPA is developing a technical report to provide information for a beneficial use evaluation.

Valley Water Management Company (Valley Water) operates oil field produced wastewater disposal facilities in Kern County. The Facilities receive produced wastewater from oil and gas producers in adjacent oil fields. Valley Water has requested to have MUN and AGR beneficial use removed from groundwater in portions adjacent to and within the administrative boundaries of the South Belridge, Monument Junction, and Cymric oil fields. Board staff have initiated a beneficial use designation evaluation to determine if the removal of MUN and AGR beneficial use designations from the subject groundwater is appropriate and have completed AB-52 and B10-11 Tribal consultation opportunity letters. Board staff are preparing for a CEQA Scoping Meeting (date and location to be determined).

## **TRIBAL BENEFICIAL USES DESIGNATIONS**

On 2 May 2017, the State Water Board 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 (Resolution 2017-0027). This Resolution established three new beneficial use definitions: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB), and Subsistence Fishing (SUB). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. The SUB beneficial use definition does not mention "California Native American Tribe" but will be included as a Tribal Beneficial Use (TBU) since it can be utilized by California Native American Tribes, Tribal members, as well as other interested persons/members of public. The definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights.

On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBU designations as a priority project. At the 18 February 2022 Board Meeting, the Central Valley Water Board adopted the proposed basin plan amendment (BPA) to add the TBU definitions to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and Tulare Lake Basin. On 7 September 2022, the State Water Board approved the BPA. Board staff continue to usher the BPA through the Office of Administrative Law and United States Environmental Protection Agency as the final components of the approval process.

Board staff continued participation in the TBUs 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).

In response to requested clarification on the Basin Plan Amendment Process and our TBU approach, Board staff developed a Frequently Asked Questions document as well as a TBU Basin Planning Primer describing and illustrating the steps needed to successfully designate a waterway with a TBU. Both documents are posted on the project's website (see below).

As a commitment to providing government-to-government meetings, Board staff host semi-annual hybrid meetings to provide project updates to tribes and their representatives as well as to solicit input to incorporate into the Board's approach. Tribes and their representatives are polled to determine the best timeframes that consider tribal cultural activities and traditional tribal practices to ensure maximum participation. Board staff hosted meetings on 28 April 2022, 10 November 2022, and the next meeting is scheduled for 20 April 2023.

Board staff began meeting with tribes who submitted TBU designation requests to review their request, discuss evidence submitted, and provide an opportunity to establish continued collaboration. Meetings will continue to be held and offered throughout the TBU designation process.

More information can be found on the [Tribal Beneficial Uses](#) website at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/tribal\\_beneficial\\_uses/](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/))

## **BIOSTIMULATORY/BIOINTEGRITY POLICY DEVELOPMENT**

The State Water Board is developing a statewide plan for controlling bio stimulatory substances and cyanotoxins under the Bio stimulation, Cyanotoxins, and Biological Condition Provisions (Provisions). Bio stimulatory substances are excess nutrients, primarily nitrogen and phosphorus, which cause harmful aquatic plant and algal growth. Biological condition refers to using indices of species diversity and abundance to assess ecological health of a water body. The Provisions may include numeric or narrative water quality objective(s) for bio stimulatory substances and control options for point and non-point sources applicable statewide to streams, rivers, lakes, and reservoirs.

Board staff are managing a task in the Statewide consolidated contract with the Southern California Coastal Water Research Project (SCCWRP) to develop technical analyses that are focused on Central Valley streams, lakes, and reservoirs. For wadable streams, SCCWRP is compiling and reviewing data from waterways physically modified by human activities. For lakes and reservoirs, Board staff are working closely with SCCWRP staff to develop interactive display tools for chlorophyll, nutrients, cyanotoxins, and other data.

More information on [State Water Board's Provisions](#) can be found on the website at:

([https://www.waterboards.ca.gov/water\\_issues/programs/biostimulatory\\_substances\\_biointegrity/](https://www.waterboards.ca.gov/water_issues/programs/biostimulatory_substances_biointegrity/))

## **NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM (NPDES)**

### **PROJECTS**

NPDES staff released draft permit language for public comment for the renewal of the NPDES General Order for Municipal Wastewater Dischargers That Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order). With the progression of most wastewater treatment facilities toward tertiary treatment, many facilities with NPDES discharges are operating at a consistently high level with similar effluent limits and monitoring schedules. Originally adopted in 2017, the Municipal General Order allows advanced facilities to be grouped under a single general order to streamline the NPDES permit renewal process. Discharger-specific effluent limitations and monitoring requirements are issued through a Notice of Applicability approved by the Executive Officer. Nineteen facilities are currently permitted under this general order, with plans to add two more by the end of the fiscal year. The public comment period ends on 7 April 2023 and the adoption of the renewed general order is scheduled for consideration at the April 2023 Central Valley Water Board meeting.

### **GENERAL ORDER ENROLLMENTS**

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. The NPDES Tables below, summarize the Notices of Applicability that have been issued to date for Fiscal Year 2022/2023 (27 January 2023 through 30 March 2023) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order), Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order), and Waste Discharge Requirements for Cold Water Concentrated Aquatic Animal Production Facility Discharges to Surface Water (CAAP General Order).

**NPDES PERMIT Table 1 – Limited Threat Discharges to Surface Waters  
R5-2022-0006**

<b>Facility</b>	<b>General Order Permit Number</b>
United States Fish and Wildlife Service, Delta Research Station Well Test Project	R5-2022-0006-010
Jacobs Engineering Group, Regional Surface Water Supply Project	R5-2022-0006-012

## **PERMITTING INITIATIVES**

### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM**

Three groups of discharges have been identified that are similar in nature and include a considerable number of backlogged permits that need to be updated. The three groups include: domestic wastewater treatment plants that treat more than 100,000 gpd (mid-sized domestic), nut and seed drying operations, and fruit and vegetable packing. Each of our offices will take the lead to develop one of these General Orders - Redding will lead the mid-sized domestic, Rancho Cordova will lead the nut and seed drying, and Fresno will lead the fruit and vegetable packing.

Staff are currently working with legal to complete requirements to address CEQA, incorporate Basin Plan revisions for CV-SALTS, and implementing requirements of Assembly Bill 2108. This Assembly Bill sets forth requirements to conduct equitable, culturally relevant outreach to disadvantaged communities or tribal communities and make findings on anticipated water quality impacts in disadvantaged communities and tribal communities because of the this permitted activity.

The adoption of the new General Orders will not only result in increased regulatory consistency, but it will also significantly reduce our permitting backlog within the WDR Program.

### **NITRATE CONTROL PROGRAM IMPLEMENTATION**

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

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

Management Zones in the Priority 1 basins submitted Final Management Zone Proposals (FMZPs) to the Central Valley Water Board in August 2022. The documents were available for a 30-day public comment period ending on 24 October 2022. The Central Valley Water Board received written comments on the Management Zone

FMZPs on 24 October 2022. The Priority 1 Basin Management Zones received concurrence letters of their FMZPs on 23 February 2023. [FMZP concurrence letters and response to comments](#) can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/nitrate\\_mz/#com\\_f%20mzp](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/nitrate_mz/#com_f%20mzp))

On 25 January 2023, Central Valley Water Board Staff (Jennie Fuller) attended the Chowchilla Steering Committee Meeting regarding Chowchilla Management Zone implementation of the Nitrate Control Program.

On 9 February 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller, True Khang, Cindy Au-Yeung and Hannah Dailey) attended a CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Nitrate Control Program topics included a status update on the Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, and SAFER funding of co-contaminants in Management Zones.

On 22 February 2023, Central Valley Water Board Staff (Jennie Fuller) attended the Chowchilla Steering Committee Meeting regarding Chowchilla Management Zone implementation of the Nitrate Control Program.

On 27 February 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller, True Khang, Cindy Au-Yeung and Hannah Dailey) attended a Nitrate Control Program Implementation Meeting with environmental justice stakeholders. Topics included Central Valley Water Board concurrence letters and response to stakeholder comments on the Management Zone FMZPs.

On 3 March 2023, Central Valley Water Board Staff True Khang attended the CV-SALTS Public Education & Outreach Committee Meeting. Topics included updates on the Early Action Plan outreach activities, timelines, and metrics.

On 7 March 2023, Central Valley Water Board Staff Hannah Dailey attended the Tule Basin Management Zone Advisory Committee Meeting. Topics included updates on MZIP development, Early Action Plan outreach and implementation, and replacement drinking water.

On 9 March 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller, True Khang, Cindy Au-Yeung and Hannah Dailey) attended a CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Nitrate Control Program topics included a status update on the Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, and SAFER funding of co-contaminants in Management Zones.

On 22 March 2023, Central Valley Water Board Staff (Jennie Fuller) attended the Chowchilla Steering Committee Meeting regarding Chowchilla Management Zone implementation of the Nitrate Control Program.

On 23 March 2023, the Central Valley Salinity Coalition Surveillance and Monitoring Program Workplan for the Salt and Nitrate Control Programs was approved by the Central Valley Water Board.

## **IRRIGATED LANDS REGULATORY PROGRAM (ILRP)**

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

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

Members of the East San Joaquin Water Quality Coalition and Tulare Lake Basin Coalitions were required to monitor drinking water wells on enrolled parcels starting in 2019 and 2020, respectively. In 2021, members of the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. In 2022, members of the Rice Commission and Sacramento Valley and Westlands Water Quality Coalitions began monitoring their drinking water wells.

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 of the impacted wells. Between 1 January 2023 and 28 February 2023, 1,946 samples were submitted to GeoTracker by 1,022 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley and the Tulare Lake Basin Water Quality Coalitions. Approximately 11 percent of samples exceeded the drinking water standard. During the same time, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 4,061 drinking water well exceedances staff has received 3,967 notification responses. Staff continue to follow up with phone calls, emails, letters and notices of violation, as necessary, for inadequate notification action.

Region-wide, this effort has resulted in over 19,400 nitrogen samples being collected and entered into GeoTracker for over 12,800 wells, with approximately 21% exceeding the nitrate drinking water standard (as of 28 February 2023).

#### **REMINDER LETTERS FOR ENROLLMENT**

Water Board staff sent out reminder letters prior to 13260 directives to owners of potential commercial irrigated lands. Reminder letters are sent to potential non-filers to provide them with information on the ILRP and steps for enrolling in the program. Staff then follow up with directives as needed. Coalition areas not shown had no reminder letters mailed during the reporting period.

<b>Coalition Area</b>	<b>Reminder Letters sent 1 January 2023 – 28 February 2023</b>
Sacramento Valley Water Quality Coalition	216
<b>Total</b>	<b>216</b>

### **WATER CODE SECTION 13260 DROPPED-MEMBER DIRECTIVES**

Staff also sent dropped-member directive letters during this period. These directives were sent to members dropped from the Coalitions' participant lists and may include members with unpaid dues. The directive requires the recipients to re-enroll with a third-party group within 15 days of receipt of the letter. Coalition areas not shown had no dropped-member directives mailed during the reporting period.

<b>Coalition Area</b>	<b>Directive Letters sent 1 January 2023 - 28 February 2023</b>
Sacramento Valley Water Quality Coalition	29
Kaweah Basin Water Quality Association	28
Kern River Watershed Coalition Authority	27
Kings River Water Quality Coalition	68
Tule Basin Water Quality Coalition	52
<b>Total</b>	<b>204</b>

### **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.

<b>Coalition Area</b>	<b>NOVs Mailed 1 January 2023 – 28 February 2023</b>
San Joaquin & Delta Water Quality Coalition	18
East San Joaquin Water Quality Coalition	16
<b>Total</b>	<b>34</b>

## COALITION ENROLLMENT SUMMARY

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. Staff has completed the incorporation of the new 2019 Department of Water Resources land use data into our GIS maps to replace the 2016 land use data. Staff is incorporating other information including but not limited to current membership lists, WDR land application sites and past inspection data. We are also continuing to work with the Confined Animal Unit to identify existing facilities to integrate this information. There are fluctuations in irrigated agricultural acreage due to various factors, including land use conversions, water allocations, ownership transfers, and regulatory coverage in other programs, but this effort will provide a clearer picture of the status of enrollment in the Irrigated Lands Program.

## AGRICULTURAL PARCEL INSPECTIONS

The purpose of these aerial desktop inspections is to determine if the parcels are commercial irrigated lands and require coverage under the Irrigated Lands Regulatory Program. Data gathered during these inspections are used to focus and prioritize issuance of 13260 directives to appropriate entities. Growers may obtain coverage by joining an agricultural coalition and enrolling in the associated ILRP general order or enrolling in the ILRP individual general order. The table below presents desktop parcel inspections conducted for each coalition area. Coalition areas not shown had no desktop inspections during the reporting period.

<b>Coalition Area</b>	<b>Parcel Inspections 1 January 2023 – 28 February 2023</b>
East San Joaquin Water Quality Coalition	146
San Joaquin County and Delta Water Quality Coalition	358
Sacramento Valley Water Quality Coalition	1,100
<b>Total</b>	<b>1,604</b>

## SACRAMENTO RIVER WATERSHED COALITION GROUPS

### ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
MPU	Monitoring Plan Update
QAPP	Quality Assurance Project Plan
WY	Water Year
CGQMP ASR	Comprehensive Groundwater Quality Management Plan Annual Status Report
GAR	Groundwater Assessment Report
PEP	Pesticide Evaluation Proposal
SW MPIR	Surface Water Management Practices Implementation Report

## CALIFORNIA RICE COMMISSION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/29/22	2022 AMR	Approved 3/13/23	

## SACRAMENTO VALLEY WATER QUALITY COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/22	AMPINAR	Approved 2/9/23	
3/15/23	Management Plan Completion Request	Under Review	

## SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

### EAST SAN JOAQUIN WATER QUALITY COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
3/1/2023	Quarterly Monitoring Data	Reviewed 3/1/2023	
3/27/2023	QAPP Amendment	Under review	

### SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
1/18/23	MPU addendum	Approved 2/2/23	Monitoring Plan Update addendum for the 2023WY
3/21/23	QAPP amendment	Under review	

### WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/30/22	AMR	Review sent 3/6	
11/9/22	Revised QAPP	Review sent 3/21	
11/30/22	AMPINAR	Approval pending	
12/15/22	MPU	Approved 2/1	
2/27/23	MPU amendment	Approved 3/15	Revised imidacloprid monitoring
3/24/23	Management Plan Completion Request	Review pending	

### GRASSLAND DRAINAGE AREA COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/22	AMPINAR	Comments provided 1/4/23	Waiting for revision

## TULARE LAKE BASIN COALITION GROUPS

### KERN RIVER WATERSHED COALITION AUTHORITY

#### Deliverables and activities:

<b>Submittal Date</b>	<b>Item</b>	<b>Review Status</b>	<b>Notes</b>
2/8/2023	Kern River Arsenic Source ID Proposal	Under Review	

### KINGS RIVER WATER QUALITY COALITION

#### Deliverables and activities:

<b>Submittal Date</b>	<b>Item</b>	<b>Review Status</b>	<b>Notes</b>
2/13/2023	Alternative Nitrogen Reporting Proposal	Approved 17 Feb 2023	

### WESTSIDE WATER QUALITY COALITION

#### Deliverables and activities:

<b>Submittal Date</b>	<b>Item</b>	<b>Review Status</b>	<b>Notes</b>
2/6/2023	2022 AMR Addendum	Pending	

## 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 of each year.

Staff observed that there are several EDD data sets that have not been fully uploaded to CEDEN. Since March, staff and OIMA have been working to reconcile those missing records.

## GRASSLAND BYPASS PROJECT

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/20/22	QAPP Update	Under review	

## RICE PESTICIDES PROGRAM

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/29/22	2022 AMR	Approved 3/16/23	

## DAIRIES/CONFINED ANIMAL FACILITIES

### DAIRY DIGESTERS

Information about the 2022 [Dairy Digester Research and Development Program](#) projects is available at:

([www.cdfa.ca.gov/go/dd](http://www.cdfa.ca.gov/go/dd))

### DAIRY POND LINER DESIGN REPORTS

Staff continue to review design reports for several proposed digester pond double-liners from dairies to whom California Department of Food and Agriculture grants were awarded in 2019 and 2020 under the Dairy Digester Research and Development Program. The Program provides financial assistance for the installation of dairy digesters in California, resulting in reduced greenhouse gas emissions. Dairy digesters are a renewable technology that uses livestock manure to produce methane, which is a renewable source of electrical energy generation and transportation fuel. The latest grant awardees were announced in September 2020, resulting in 12 applicants receiving approximately \$16.5 million. Information about the [Dairy Digester Research and Development Program projects](#) is available at:

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

Dairy digester projects usually begin as a double lined pond that once constructed is covered and converted to a digester. Staff have taken an active role as Technical Advisory Committee members in the review of several dairy digester project proposals submitted to the California Department of Food and Agriculture (CDFA) under a competitive grant application process. CDFA's Dairy Digester Research and Development Program (DDRDP) provides financial assistance for the installation of dairy digesters, which will result in reduced greenhouse gas emissions from manure

generated on California dairy farms. Financial assistance for the installation of dairy digesters comes from California Climate Investments, a statewide initiative that uses Cap-and-Trade program funds to support the state's climate goals. CDFA and other state agencies are investing these proceeds in projects that reduce greenhouse gas emissions and provide additional benefits to California communities. Twenty-seven (27) applications were received last year and were reviewed for a total funding request of approximately \$35.4 million. Grant recipients were announced in October 2022, awarding 14 projects totaling \$18.7 million in grant funding.

Information about the Dairy Digester Research and Development Program [Research and Development Program](#) projects is available at:

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

Staff reviews design reports related to the digester pond double-liners at dairies to ensure they are protective of water quality.

## **WEATHER RELATED ISSUES**

The recent heavy rains and associated flooding in various parts of the Central Valley have resulted in a variety of issues for the Region's confined animal facilities, including but not limited to, inundation of low-lying land application areas, the potential need to move herds, and complaints of off-site discharges. Staff is monitoring the situation, investigating complaints, and where appropriate will recommend enforcement.

## **ANNUAL REPORTS**

### **Rancho Cordova Confined Animal Facility (CAF) Unit:**

The Rancho Cordova CAF Unit received approximately 550 dairy and 105 bovine facility annual reports. The Unit issued 86 Notice of Violations (NOVs) to Dischargers for not filing annual reports for their dairy facilities and 14 NOVs for their bovine facilities.

The Rancho Cordova Unit also received approximately 101 poultry facility annual reports and issued 42 NOVs to Dischargers that did not file an annual report.

### **Fresno CAF Unit:**

The Fresno CAF Unit received 499 dairy facility annual reports, 108 bovine feedlot facility annual reports, and 54 poultry facility annual reports. There were six dairy facility non-filers, eight bovine facility non-filers, and 64 poultry facility non-filers. Fresno CAF Unit staff are working on appropriate enforcement for the non-filers.

## **ALTERNATIVE MANURE MANAGEMENT**

CDFA assembled a Manure Recycling and Innovation Product Task Force to help address the overloading of manure on crop land associated with dairies. Board

Management participated in the Task Force. The Task Force released its [final report](#) on 10 March 2023. It can be found at:

([https://www.cdfa.ca.gov/oefi/research/docs/MRIP\\_FinalReport.pdf](https://www.cdfa.ca.gov/oefi/research/docs/MRIP_FinalReport.pdf))

## PONDS INTERSECTING GROUNDWATER

Directives were issued to about 70 dairies in the spring of 2019 requiring them to determine whether there is separation between the bottoms of their ponds and the highest anticipated level of groundwater. As a result, approximately 30 dairies were subsequently required to submit workplans for remediating ponds because they did not have separation. An additional 30 directives were issued to dairies that had indicated they had adequate separation, but the determination was based on regional data. These directives required installation of piezometers to monitor depth to groundwater. The requirement to implement both the pond remediation and piezometer directives remains held pending the State Board's response to the Dairy General Order petition.

There are approximately 100 additional dairies around the Region where shallow groundwater may be present.

## OIL FIELD PROGRAM

### WASTEWATER SURFACE PONDS

Central Valley Water Board staff (Staff) continues to work on enrolling oil field operators (operators or dischargers) under the Oil Field General Orders for Discharges to Land or individual waste discharge requirements (WDRs) and evaluating operator compliance with those that have been issued. Staff also continue to work on closure plans for oil field produced wastewater (produced wastewater or discharge) ponds. Major items completed by Staff are identified below.

- An NOA for [General Order Number Three](#) was issued to a discharger that operates eight ponds on the Santa Fe, Stanford, and Theta 30 Leases in the Carneros Creek Oil Field.

([https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/general\\_orders/r5-2017-0036.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2017-0036.pdf))

- Review of an NOI for coverage under [General Order Number One](#) for discharges into two ponds in the Deer Creek Oil Field. Staff have identified deficiencies and follow-up correspondence is pending.

([https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/general\\_orders/r5-2017-0034.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2017-0034.pdf))

- Staff reviewed a report of waste discharge for a facility in the Asphalto Oil Field. The review found that the report of waste discharge was incomplete, and that the

operator would need to provide additional information before the facility can be considered for coverage under waste discharge requirements.

- Individual Staff letters were sent to operators in the Midway-Sunset and South Belridge Oil Field stating their closure workplans were approved, if they conduct additional work, including sampling of pond berms and sidewalls. Operators were also asked to provide additional information about operations and ponds.
- Staff sent a letter to a discharger in the North and South Coles Levee Oil Fields where approximately 20 inactive pond features are present. The letter included: an Inspection Report; an approval for a sampling work plan for four of the ponds, and a request for submittal of sampling/closure plans for the remaining ponds.
- Staff sent a letter requesting submittal of sampling/closure plans for three inactive ponds located in the Midway-Sunset Oil Field on the Lockwood, National USL, and W & S Leases.
- A Notice of Violation (NOV) was issued for the following:
  - Mission Oil Company was issued a NOV for failing to comply with an order pursuant to California Water Code section 13260- which requires the operator to submit a report of waste discharge and initiate quarterly monitoring.

Staff continue to review applications and 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 (General Low Threat WDRs).

## **SPILL RESPONSE**

Staff respond to oil field spills and upsets reported to the Governor's Office of Emergency Services (OES). Staff were notified of 17 new oil field related spill events from 20 January 2023 to 23 March 2023. Major events are summarized below.

On 13 February 2023 Staff received OES Spill Report #21-1152. The report indicated that "*due to a flow line leak*" 0.5 barrels of crude oil and 1.5 barrels of produced wastewater were released into a "*Blue Line...*" dry stream bed in the Elk Hills Oil Field. Staff contacted the reporting party, California Resources Corporation (CRC), and received pictures of the stream bed impacts prior to clean up. On 17 February 2023, Staff inspected the site of the spill. During the inspection CRC staff indicated that the total spill volume consisted of 22 barrels of fluid, of which four barrels were crude oil and that the volumes reported in the OES report is that portion of the spill that entered the dry stream bed. On 14 March 2023 Staff issued a Notice of Violation to CRC for violations of Water Code Sections 13260, 13264, and 13350.

On 19 February 2023 Staff received OES Spill Report # 23-1428 submitted by an anonymous citizen. The report indicated that, in the Cymric Oil Field, crude oil was

observed near a well and a small portion of crude oil was spilling over an embankment. An update to the report was submitted by Chevron staff on 27 February 2023 that indicated the volume of oil was 0.001 Barrels and indicated: *“Overflow from a well cellar creating trace amounts of spots in a dry stream bed. Unknown named stream bed at that time of report. Due to the rain event, a well cellar filled up, minute amounts of oil in the well cellar carried over into the dry stream bed. Contractor on site handling mitigation.”* A post clean up inspection of the facility was conducted by staff on 9 March 2023. Staff observed no remnant oil from the spill in the streambed or near the well.

On 22 February 2023 staff received OES Spill Report # 23-1319. The report indicated a pipeline leak resulted in the release of 0.1 barrels of crude oil and 0.2 barrels of produced wastewater into a dry stream bed at a Chevron facility in the Midway-Sunset Oil Field. Staff contacted the reporting party and received pictures of the stream bed impacts prior to cleanup. The reporting party indicated that the reported spill volume was the volume that affected the dry stream bed, and the total spill volume was under the reporting threshold. A post clean up inspection of the facility was conducted on 9 March 2023. Staff observed no remnant oil from the spill in the streambed or near the well.

On 23 February 2023 Staff received OES Spill Report # 23-1347. The report stated that due to a mechanical failure at a well, 0.04 barrels of crude oil and 4 barrels of produced wastewater were released into a dry stream bed at a Chevron facility in the Midway-Sunset Oil Field. An update to the OES report indicated a larger release volume, however this appeared to be an error as Chevron and Department Fish and Wildlife staff indicated during an inspection that a minimal amount of fluid was sprayed into the stream. A post clean up inspection of the facility was conducted on 9 March 2023. Staff observed no remnant oil from the spill in the streambed or near the well.

On 24 February 2023 Staff received OES Spill Report # 23-1376. This spill report is for the same location as OES Spill Report # 23-0271, described in last month’s EO report, representing an ongoing problem at a known seep/expression at a Berry Petroleum Company (Berry) facility in the Midway-Sunset Oil Field. The # 23-1376 report indicates that due to a weather event an unknown volume of crude oil was discharged into a dry stream bed. An update submitted later on 24 February 2023 stated that *“...it was determined that only a trace amount of oil entered Sandy Creek and was unrecoverable. There were no observed impacts to Sandy Creek in the immediate area and further downstream.”* On 15 March 2023 Staff issued a Notice of Violation to Berry for violations of Water Code sections 13260, 13264, and 13350.

On 3 March 2023 Staff received OES Spill Report # 23-1519 that indicated 1.5 barrels of crude oil and 14 barrels of produced wastewater were discharged into a stream bed in the Buena Vista Oil Field. Staff contacted CRC, the reporting party, by phone and sent an email asking for more information. CRC staff responded with coordinates and pictures of the spill. A post clean up inspection of the facility was conducted on 21 March 2023. Staff observed recent oil staining from the spill event that was removed during the inspection. Staff also observed residual oil impacts from potential past spill events that require additional assessment and mitigation.

On 6 March 2023 Staff received OES Spill Report # 23-1595 that indicated that due to internal/external corrosion of a Chevron pipeline, six barrels of crude oil and approximately five barrels of produced wastewater were released into a stream bed in the Midway-Sunset Oil Field. Staff contacted the reporting party by phone and sent them an email asking for pictures of the spill area prior to cleanup. Chevron responded to the email and provided the requested pictures. Cleanup activities are ongoing and once completed, Staff will conduct a post cleanup inspection.

On 13 March 2023 Staff received OES Spill Report # 23-1821 that indicated an above ground storage tank was found with a leak resulting in the release of 60 barrels of crude oil into an onsite containment area in the Midway-Sunset Oil Field. No water ways were impacted. Staff contacted E&B Natural Resources Company, the reporting party, and they replied indicating that the release was fully contained within the containment area of the tank setting. Cleanup activities are ongoing.

On 13 March 2023 Staff received OES Spill Report # 23-1828 that indicated a pipeline had a leak and that 13 barrels of produced wastewater and four barrels of crude oil spilled into a dry waterway in the Midway-Sunset Oil Field. The report indicated that the release was naturally contained in the dry waterway and that a contractor was enroute for spill mitigation. Aera Energy LLC, the reporting party, when contacted indicated that the spill volumes were less than what was reported, and that the OES report had to be updated. No updates to the OES report have been provided. Cleanup is underway and, once completed, Staff will conduct a post cleanup inspection.

On 13 March 2023 Staff received OES Spill Report # 23-1833 and a subsequent update to the report indicating that, due to a “gravity leak,” 125 barrels of crude oil was released into a field in the Elk Hills Oil Field. Staff contacted CRC, the reporting party, and they indicated that, although not mentioned in the OES report, a dry stream had been impacted. CRC provided pictures of the spill. A post clean up inspection of the facility was conducted on 21 March 2023, and Staff’s assessment was cleanup activities were not complete and additional work is required.

## **UIC PROGRAM**

During the period from 24 January 2023 to 27 March 2023, Staff of the Underground Injection Control Unit (UIC) performed the following activities:

### **AQUIFER EXEMPTIONS**

Midway-Sunset Tulare Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the conduit analysis. The conduit analysis has been completed. Staff met with the State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff continues to provide State Water Board staff and CalGEM feedback on a draft Remediation and Monitoring Plan guidance document for operators.

Kern River Kern River Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the conduit analysis. The conduit analysis has been completed. Staff met with the State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff continues to provide State Water Board staff and CalGEM feedback on a draft Remediation and Monitoring Plan guidance document for operators.

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

Deer Creek Santa Margarita Formation Aquifer Exemption –Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Mount Poso, Dorsey Area, Vedder Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM and the Operators to discuss the conduit analysis. The conduit analysis has been completed. Staff continue to provide comments to the State Water Board regarding the operator’s revised aquifer exemption application.

## **UIC PROJECT REVIEWS**

Staff issued four no objection letters and memorandums for UIC projects in Cymric, North Belridge, Midway-Sunset, and Lost Hills Oil Fields.

Staff sent three letters and memorandums requesting information for UIC projects in the South Belridge, Poso Creek and Cymric Oil Fields.

Staff received six responses to reviews performed for proposed waterflood, water disposal, steam flood, and cyclic steam projects in the Edison, Coalinga, Mount Poso, Lost Hills, Cymric and Mountain View Oil Fields. Staff are reviewing the information provided.

Staff received project information relating to four cyclic steam and steam flood injection projects in the Cymric, South Belridge and Kern Front Oil Fields. Staff are reviewing the information provided.

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

Since the last Executive Officer’s Report, Staff has not received and has therefore not reviewed Well Stimulation Treatment Applications, as none have been forwarded from CalGEM.

Staff reviewed one groundwater monitoring report from an operator in the Rose Oil Field. Staff reviewed one groundwater monitor exclusion proposal for an operator in the South Belridge Oil Field. Staff conveyed draft comments to State Water Board staff.

## FOREST ACTIVITIES PROGRAM

### DEVELOPMENT OF A FEDERAL NPS PERMIT FOR USFS AND BLM ACTIVITIES

Staff continues to refine the draft proposed Federal NPS Permit for a variety of activities undertaken by the USFS and BLM across the nearly 11 million acres of federally managed lands in the region. The proposed permit is expected to be released for public comment in mid-2023.

### INSPECTIONS

Forest Activities Program staff have conducted 148 of 267 or 55% of inspections targeted for FY 22/23. Abundant snowfall accumulations in the forested areas of the region are likely to impact access for some inspections this year.

## CANNABIS PROGRAM

### CANNABIS GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff continue to enroll dischargers into our General Order. Division of Water Quality (DWQ) has taken over responsibilities for issuing Notices of Applicability (NOAs). Fees were increased again for FY22/23 and dischargers just received invoices reflecting those increases. In response, staff are responding to questions from dischargers and processing Notices of Termination (NOTs).

**Cannabis 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	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Calaveras	0	28	2	0	66	4	4	104
Colusa	0	1	0	0	2	0	5	8
Contra Costa	0	0	0	0	1	0	5	6
El Dorado	0	5	0	0	2	0	0	7
Kern	0	0	0	0	0	0	4	4
Kings	0	0	0	0	2	0	2	4
Lake	0	134	2	7	253	3	58	457
Fresno	0	0	0	0	6	0	9	15
Merced	0	0	0	0	0	0	10	10

<b>County</b>	<b>Tier 1H</b>	<b>Tier 1L</b>	<b>Tier 1M</b>	<b>Tier 2H</b>	<b>Tier 2L</b>	<b>Tier 2M</b>	<b>CE</b>	<b>Total Active Enrollments</b>
Nevada	2	287	5	0	37	0	23	354
Sacramento	0	0	0	0	0	0	165	165
San Joaquin	0	0	0	0	0	0	6	6
Sierra	0	1	0	0	0	0	0	1
Solano	0	0	0	0	0	0	5	5
Shasta	0	0	0	0	0	0	23	23
Siskiyou	0	0	0	0	0	0	6	6
Stanislaus	0	7	0	0	1	0	39	47
Tulare	0	0	0	0	0	0	8	8
Yolo	0	16	0	0	43	0	3	62
Yuba	0	0	0	0	0	0	2	2
<b>Totals</b>	<b>2</b>	<b>479</b>	<b>9</b>	<b>7</b>	<b>413</b>	<b>7</b>	<b>377</b>	<b>1294</b>

## **CANNABIS OUTREACH**

On 2/23/2023 Water Board staff hosted the fifth outreach event of FY 22/23. Staff presented at a General Program Overview for new enrollees.

On 03/30/2023 Water Board staff will host the sixth outreach event of FY 22/23. Staff will present on the Enforcement processes of both the Permitting and Enforcement teams.

## **COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT**

- 03/16/2023, Redding staff issued 23 Notices to Enroll in the Dry Creek Watershed, Nevada County.

## **COMPLIANCE INSPECTIONS**

- 02/23/2023- Brassfield Compliance inspection, Lake County

## **ENFORCEMENT INSPECTIONS**

- 02/16/2023- four warrant inspections, Calaveras County
- 03/09/2023- three warrant inspections, Shasta County
- 03/27/2023- two warrant inspections, Shasta County
- 03/30/2023 - two warrant inspections, Shasta County

## 13267S ISSUED (H5)

- Carlile site, NOV Non-Compliance with 13267 Order - issued 02/21/2023
- Cabrera site, 13267 in review with OE

## ENFORCEMENT REPORT

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, COMPLAINTS, AND INSPECTIONS

Enforcement Table 1, included below, provides a summary of all 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.

For this reporting period, 1 January 2023 through 28 February 2023, no formal enforcements were issued. Most of the Compliance and Enforcement Program staff time was spent meeting to develop strategies for enforcing noncompliance with the CV-SALTS Program, interoffice collaboration across permitting and CE programs, focus on end-of-year inspections to meet FY 23/24 program goals, and increased compliance enforcement.

**Enforcement Table 1 – Central Valley Enforcement Orders  
1 January 2023 through 28 February 2023**

Action Date	Agency	County	Notes
1/20/2023	TOLL WEST COAST LLC	El Dorado	The Settlement Agreement and Stipulation of Administrative Civil Liability Order R5-2023-0500 was issued in the amount of \$45,675 for the failure to minimize and prevent pollutants in stormwater discharges in violation of the Construction General Order.

Action Date	Agency	County	Notes
2/2/2023	E & J Gallo Winery	Merced	Settlement Agreement and Stipulation of Administrative Civil Liability Order R5-2022-0510 issued because the discharger pumped its waste onto private property, which then discharged directly into the Merced River. A total of 92,358 gallons of wastewater was discharged during the incident. To resolve the violation, the Discharger agreed to the imposition of administrative civil liability in the amount of \$378,668, of which \$189,334 will be paid by the Discharger to the State Water Pollution Cleanup and Abatement Account. The remainder of the penalty, \$189,334, will be suspended upon completion of a Supplemental Environmental Project (SEP). The Discharger will fund a portion of Merced County's Hagaman Park Restroom Septic Tank and Leach Field Relocation Project. The SEP will ensure that the existing restroom's septic tank and leachfield are moved to a higher elevation above the flood zone along the Merced River.
2/2/2023	Portola City	Plumas	ACL R5-2022-0512 in the amount of \$3,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/18/2023	Sierra Joint Community College District	Placer	The Settlement Agreement and Stipulation of Administrative Civil Liability Order R5-2023-0502 was issued in the amount of \$77,848 for the failure to minimize and prevent pollutants in stormwater discharges to surface water in violation of the Construction General Order.
1/20/2023	Hilbers New Home Communities	Nevada	The Settlement Agreement and Stipulation of Administrative Civil Liability Order R5-2023-0501 was issued in the amount of \$73,187 for the failure to minimize and prevent stormwater discharges to surface

Action Date	Agency	County	Notes
			water in violation of the Construction General Order.

## SIGNIFICANT ENFORCEMENT ACTIONS

### ENFORCEMENT ACTIONS AND ABBREVIATIONS

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

**Enforcement Table 2 – Enforcement Actions in CIWQS  
1 January 2023 through 28 February 2023**

Region	13267	NNC	ACL	CAO	EPL	NOV	SEL	TSO	UNK	VER	Total
5F	0	0	1	0	0	9	0	0	0	0	10
5R	0	0	1	0	0	5	0	0	0	1	7
5S	0	1	3	0	0	69	1	3	0	5	82
<b>Total</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>83</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>99</b>

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 January 2023 through 28 February 2023, a summary of those enforcement actions is included in Tables 3 and 4 below.

**Enforcement Table 3 – ILRP Enforcement Actions  
1 January 2023 through 28 February 2023**

Region	Reminder Letter for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	NOVs for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	Total
5F	0	0	0
5S	0	0	0
5R	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Enforcement Table 4 – Region 5 ILRP Enforcement Actions  
1 January 2023 through 28 February 2023**

Region	Reminder Letter for Failure to Enroll in ILRP	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to Directive	Total
5F	0	175	0	175
5S	216	27	34	277
5R	0	0	0	0
<b>Total</b>	<b>216</b>	<b>202</b>	<b>34</b>	<b>452</b>

**Enforcement Table 5 – CAF Inspections  
1 January 2023 through 28 February 2023**

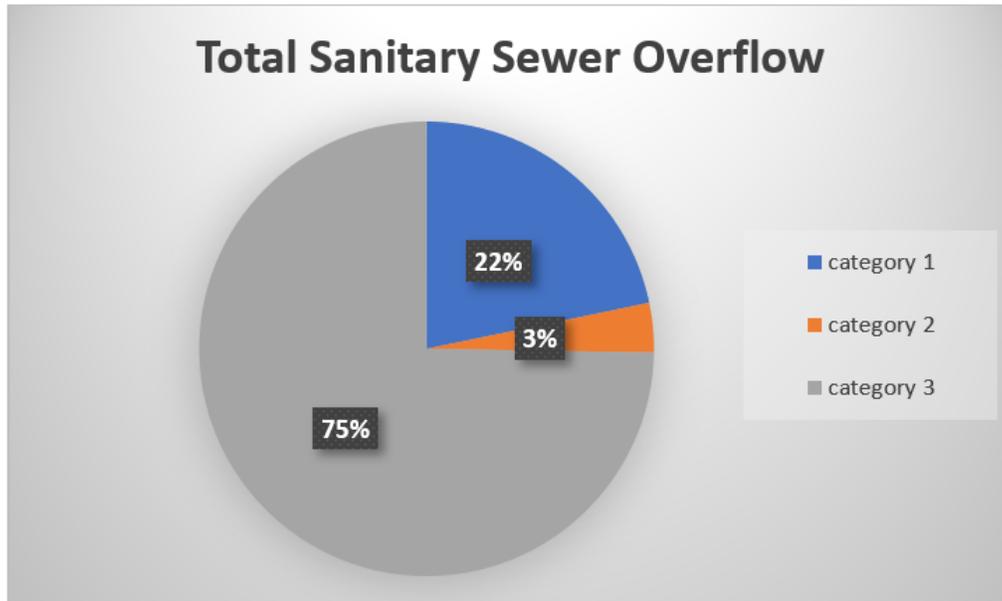
Confined Animal Facility Inspections	
5S (Sacramento)	14
5R (Redding)	0
5F (Fresno)	25
<b>Total</b>	<b>39</b>

### **SANITARY SEWER OVERFLOWS (SSOS)**

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit SSO technical report for

any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 January 2023 through 28 February 2023, there were 3 reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

## SSO SUMMARY DATA



**Enforcement Figure 1: Central Valley Sanitary Sewer Overflow Summary  
1 January 2023 through 28 February 2023**

For the reporting period between 1 January 2023 through 28 February 2023, there were 285 total SSO spills: 62 Category 1, 10 Category 2, and 213 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](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html)).

Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

## COMPLAINT RESPONSE TRACKING

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 January 2023 through 28 February 2023, Central Valley Water Board staff have

received a total of **50 complaints** from phone calls, emails, and from the CalEPA Complaint database. To date, 45 (90%) complaints have been investigated and closed or referred to other environmental enforcement agencies. Investigations into 5 complaints remain ongoing.

### CalEPA Complaint database

(<https://calepacomplaints.secure.force.com/complaints/>).

## **ADMINISTRATIVE CIVIL LIABILITY ACCOUNTING**

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)**

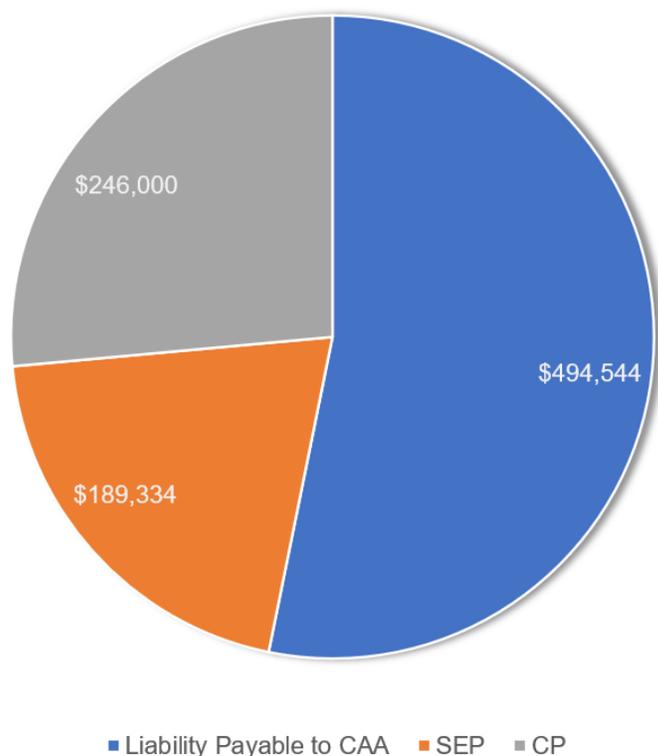
A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger. State provides 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 2022 through 28 February 2023, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$929,878 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$246,000 was allocated for CPs and \$189,334 was allocated for SEPs (see Enforcement Figure 3 below).

**Monetary Penalties (1 July 2022 - 28 February 2023)**



**Enforcement Figure 1: Region 5 – Sum of Total Monetary Penalties Issued during the fiscal year 1 July 2022 through 28 April 2023.**

**Table 7 – Clean Up**

**CLEANUP SUCCESSES**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
New DoD Sites into Active Remediation	4	0	0	NA	NA
New SCP Sites into Active Remediation	19	17	89	NA	NA
Cleanup Program Sites Closed	36	19	53	NA	NA
New UST Sites into Active Remediation	16	13	81	NA	NA

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
Underground Storage Tank Sites Closed	45	30	67	NA	NA

## **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 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.

### **SACRAMENTO**

#### **SHANNON’S, 369 HIGHWAY 59 SOUTH, MERCED, MERCED COUNTY**

In 1990, Shannon's Market discovered a product piping release, filed an Unauthorized Release Report, and excavated about 100 cubic yards of impacted soil during pipe repairs. Between 1991 and 2003, the responsible party destroyed 12 private domestic supply wells and connected these residents to public water supply. Remedial actions including free-product removal, SVE, air-sparging, ISCO, MPE, and excavation have removed approximately 97,800 pounds of hydrocarbons from beneath the Site. The remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Staff closed the UST case on 24 March 2023 under the Low Threat Closure Policy (LTCP). Soil gas samples contained chlorinated compounds that may pose a human health risk; therefore, staff opened a Site Cleanup case and directed additional investigation of the source and potential risk. (MSP)

**AETNA SPRINGS GOLF CLUB, 1600 AETNA SPRINGS ROAD, POPE VALLEY, NAPA COUNTY**

A manager of the former golf course recalled removing a UST in the mid-1990s. In February 2006, an investigation identified low levels of petroleum in soil and groundwater. A second UST was identified and removed in May 2006. Consultants conducted investigations in 2007 and 2008 to define the extent of the release. The consultant monitored the Site from 2009 to 2014. Napa transferred the case to us in 2019. The consultant monitored the Site in 2019 and 2020 and concluded the case met the Policy. Staff closed the case on 29 March 2023 under the LTCP. (MWM)

**BANK OF AMERICA, 710 WEST MAIN STREET, MERCED, MERCED COUNTY**

The Site is currently a Bank of America. The Site was a gas station between 1922 and 1980. The Site contained a 31,500-gallon concrete crude oil UST, a 250-gallon waste oil UST, and two 4,000-gallon leaded gasoline USTs. In 2003, a ground penetrating radar survey and test pits did not identify existing USTs, but soil and groundwater samples did identify a petroleum release. Between 2003 and 2018, consultants defined the extent of petroleum impacts in soil, groundwater, and soil gas. In 2018, the consultant concluded that the case met LTCP criteria, and staff concurred. Staff closed the case on 29 March 2023 under the LTCP. (MSP)

**OLD SONORA MAINTENANCE STATION, 785 MONO WAY, SONORA, TUOLUMNE COUNTY**

The Site is currently a vacant lot. Caltrans operated a maintenance station with fueling facility. In 1986, Caltrans removed the USTs. In 1993 Caltrans excavated 4,195 cubic yards of petroleum impacted soil. In 2016 and 2017 Caltrans operated an air sparge and soil vapor extraction system that removed 3,875 pounds of vapor phase petroleum from the subsurface. While petroleum hydrocarbons remain beneath the Site, the consultant concluded, and staff concurred that the impacts to soil and groundwater are decreasing in concentration and are a low risk to human health, safety, and the environment. Staff closed the case on 29 March 2023 under the LTCP. (BJL)

**BECHTHOLD GAS STATION, 454-456 NORTH EAST STREET, WOODLAND, YOLO COUNTY**

The Site is an active Pacific Pride cardlock station. Three petroleum releases occurred at the Site, with the most recent occurring in 2018. From 1986 to 2016 remediation efforts removed **419 tons** of impacted soil, **578 pounds** of vapor-phase petroleum hydrocarbons, and 35 gallons of free product. The responsible party requested closure in December 2020. All site monitoring wells were destroyed as of 2 December 2022. Staff closed the case on 29 March 2023 under the LTCP. (MJD)

**JONES LUMBER MILL (FORMER), 19955 SOULSBYVILLE ROAD, SOULSBYVILLE, TUOLUMNE COUNTY**

A release of petroleum fuel was detected in soil beneath the former motor oil UST following removal in May 1998. The Board issued a Water Code 13267 Order in 2015. For non-compliance, staff enrolled the case into the EAR program for cleanup funding. In May and June 2022, Geocon excavated and removed approximately 220 cubic yards of impacted soil from the former UST area. Geocon calculated that the excavation removed an estimated 1,450 pounds of petroleum hydrocarbons from the subsurface. Geocon collected confirmation soil samples from the excavation and determined that the case met the LTCP criteria. Central Valley Water Board staff concurred with Geocon's recommendation for case closure. The Board terminated the Order and closed the case on 29 March 2023 under the LTCP. (BJL)

**FRESNO**

**THOMASON TRACTOR OF CALIFORNIA, 985 12<sup>TH</sup> STREET, FIREBAUGH, FRESNO COUNTY**

The Site is an agricultural equipment sales, repair, and storage facility in an area of commercial-agricultural land use. A diesel release was discovered at the former UST location 2021 preliminary investigation. Low diesel constituent concentrations were detected in samples from soil borings and to a maximum of 30,000 µg/L in groundwater samples from two borings. Diesel constituents were not detected in most samples during additional soil and groundwater investigations in December 2021 and March 2022. Benzene, toluene, ethylbenzene and xylenes (BTEX); and the fuel oxygenate methyl tertiary butyl ether (MTBE) were not detected. The elevated diesel concentration in groundwater during the 2021 investigation was not representative of site conditions.

The approximately **60 pounds** (8.6 gallons) and **4.1 pounds** (0.6 gallons) of diesel range hydrocarbons remaining in soil and groundwater, respectively, will be further reduced by natural processes. Residual petroleum hydrocarbons should not present a threat to human health, the environment, or beneficial uses of groundwater. All technically and economically feasible cleanup has been completed. Central Valley Water Board staff closed the case in accordance with the LTCP on 14 February 2023. (JDW)

**REDDING**

**LA FAMILIA RETAILS, INC, 3440 SOUTH MARKET STREET. REDDING, SHASTA COUNTY**

The Site includes a convenience store and an active commercial fueling facility with two USTs and a single walled fiberglass tank. A number of subsurface investigations were conducted from March 1997 until October 2003, indicating the shallow soil and groundwater were impacted. Eleven groundwater monitoring wells were installed

between March 1997 and October 2003. In October 1989, a UST was removed and in July 1990, approximately 25 cubic yards of contaminated soil was excavated and disposed of offsite. An air sparge pilot test was conducted in May 2015. A full-scale ozone sparging system for in situ treatment of groundwater was put online in November 2006 and operated until March 2009. Because further remediation and investigative work had ceased, the Central Valley Water Board took numerous enforcement actions. In December 2021, soil and groundwater sampling was conducted indicating the dissolved phase plume of petroleum hydrocarbons was less than 150 feet in length and decreasing in size. Additionally, soil and groundwater have been adequately defined. In total, approximately 143 pounds of TPH-g; 5 pounds of benzene; and 56 pounds of MTBE; have been removed through ozone injection remediation and natural attenuation. As such, the Site was closed in February 2023 in accordance with the Low-Threat Closure Policy.

## **SITE CLEANUP PROGRAM SUCCESSES**

The following are sites where Board staff concluded that the residual contaminants in soil, soil gas, or groundwater no longer pose a threat to human health or the environment. Where necessary, a land use covenant was recorded with the relevant County Agency to ensure site conditions remain protective of beneficial uses.

### **SACRAMENTO**

#### **NO FURTHER ACTION, CENTRAL CALIFORNIA TRACTION COMPANY, 305 S GUILD AVE, LODI, SAN JOAQUIN COUNTY**

On 7 April 2011, a semi-truck collision through the fence separating the Lodi Cemetery and the Central California Traction railroad resulted in the release of less than 100 gallons of diesel fuel. Soil adjacent to 305 S Guild Ave, Lodi (Site) was impacted by total petroleum hydrocarbons (TPH) as diesel. Approximately 50 gallons of spilled diesel fuel were recovered by response crews and over 57,000 pounds of contaminated soil was excavated from the Site. The excavation was later backfilled with clean railroad rock. Soil samples indicated that the extent of the spill was confined to a limited area and that the excavation had successfully removed diesel from Site soils. It was also determined that the residual TPH does not pose a significant threat to human health, the environment, or waters of the State. A No Further Action Determination letter was issued on 17 March 2023. (NW)

#### **NO FURTHER ACTION, ROUND MEADOW, SOUTHWEST OF FOREST SERVICE HIGHWAY 1N01, TUOLUMNE COUNTY**

The previous property owner discharged petroleum from aboveground storage tanks to soil and groundwater at this remote property in the mountains. The case was opened following an investigation in 1993. The private supply well contained elevated petroleum and metals. This was an inactive backlog case until 2022. Central Valley Water Board staff sampled the supply well in 2022 and it did not contain petroleum or metals that would pose a risk. Staff recommended closing the Site Cleanup Program case.

Following the public notification activities, Central Valley Water Board staff closed the case on 17 March 2023. (MWM)

**NO FURTHER ACTION, H & M TRANSPORT, 707 EAST ROTH ROAD, FRENCH CAMP, SAN JOAQUIN COUNTY**

In 1984 Central Valley Water Board staff collected samples from collection ponds used to store wash water from a truck wash area at a commercial trucking facility at the Site. These samples contained petroleum and chlorinated hydrocarbons. In 1991, the property owner removed four USTs from the property. Following various phases of remediation including excavation and surface aeration of soils, county staff determined that no further action was required regarding the wastewater ponds. In 1993, DoD sampled the private supply well on the H&M property and 15 other nearby supply wells as part of the nearby Sharpe Army Depot case. The H&M case remained open due to 1,2-DCA in the supply well. Between 2008 and 2021, DoD routinely sampled the area supply wells. Central Valley Water Board staff sampled the H&M supply well in 2022 and evaluated the trend. The concentration of 1,2-DCA has a decreasing trend and is currently below water quality objectives. Additionally, 1,2-DCA is no longer detected in the other 15 supply wells. Central Valley Water Board staff recommended closing the Site Cleanup Program case. Following the public notification activities, Central Valley Water Board staff closed the case on 16 March 2023. (AMB)

**NO FURTHER ACTION, CACHE CREEK CHEMICALS INC. 40261 COUNTY ROAD 18C, WOODLAND, YOLO COUNTY**

Discharges of pesticide-containing rinse water to the leach field ended in 1994 when Cache Creek Chemicals, Inc. installed a wash water treatment system. This was an inactive backlog case until 2022 when staff obtained a 2015 investigation report from the consultant. Based on the 2015 soil analysis, the consultant did not identify a risk to human health from direct exposure to residual pesticides in the soil. The 2022 groundwater analysis showed that the domestic well on Site is not impacted by pesticide compounds and that the nitrate levels in the domestic well were less than the regional background levels. For these reasons, Central Valley Water Board staff has determined that the Site is eligible for case closure and qualification for “No Further Action” status. Staff issued a public notice of proposed case closure. Staff closed the case on 21 March 2023. (MWM)

**NO FURTHER ACTION DETERMINATION, LOS BANOS DESIGNATED LOCAL AUTHORITY, 715 2<sup>ND</sup> STREET, LOS BANOS, MERCED COUNTY**

The Property is comprised of a 1.33-acre property and includes an approximately 300-foot section of train track along its north boundary; a concrete loading ramp adjacent to the track; and the remainder of the Site is covered by asphalt pavement. The Los Banos Designated Local Authority (DLA) identified arsenic in soil at various locations across the Site at concentrations exceeding the established cleanup value of 28.2 milligrams per kilogram (mg/kg) for commercial or industrial use (non-residential). Except for a section of train tracks, the Site is covered by asphalt pavement and a

concrete loading ramp which eliminates the exposure pathway to arsenic affected soils. Therefore, based on a future use as commercial/industrial, arsenic affected soils remaining at the Site do not pose a significant threat to human health or the environment if the cap is maintained. In addition, a Land Use Covenant (LUC) was recorded with the Merced County Recorder's office which includes restrictions on future use, maintenance of the asphalt and concrete cap, and a soil management plan (SMP) establishing procedures for protecting workers or the public from future subsurface construction or maintenance activities. A No Further Action Determination letter was issued 16 March 2023. (KC)

**NO FURTHER ACTION DETERMINATION, LOS BANOS DESIGNATED LOCAL AUTHORITY, APN: 025-054-006, LOS BANOS, MERCED COUNTY**

The Property is comprised of approximately 2.02 acres of vacant and undeveloped land adjacent to the Los Banos Rails to Trails recreational path. The Los Banos Designated Local Authority (DLA) identified arsenic in soil at various locations across the Site at concentrations exceeding the Site-specific cleanup value of 28.2 milligrams per kilogram (mg/kg) for commercial or industrial use (non-residential). Following the initial sampling, the DLA excavated three separate pits to a depth of approximately 2.5 feet below ground surface (bgs) and collected confirmation soil samples from the base of the excavation and from the areas adjacent to the excavations. Final confirmation soil samples were all below the cleanup value of 28.2 mg/kg. Therefore, based on a future use as commercial/industrial, arsenic affected soils remaining at the Site do not pose a significant threat to human health or the environment. In addition, a Land Use Covenant (LUC) and soil management plan (SMP) was recorded with the Merced County Recorder's office restricting future use and establishing procedures for protecting workers or the public from future subsurface construction or maintenance activities. A No Further Action Determination letter was issued 16 March 2023. (KC)

**NO FURTHER ACTION DETERMINATION, WILBUR ELLIS HWY 193, JET A FUEL SPILL, PLACERVILLE, EL DORADO COUNTY**

On 4 June 2018, a truck carrying Jet A Fuel was involved in a traffic accident on Highway 193 near Placerville. The spilled fuel ran primarily down a ditch on the west side of the two-lane road (Highway 193). Some of the fuel ran into a drainage culvert that runs under the road and daylight on the east side where there is a narrow shoulder and a steep slope made mostly of exposed bedrock with little soil. A seasonal creek runs parallel to the road along the base of the slope, an estimated 150 feet from the road. On behalf of Wilbur Ellis, Patriot Services applied absorbent material to the fuel spilled on the road; excavated the contaminated soil on the west side of the road and backfilled with clean soil; collected soil samples; and visually inspected the seasonal creek. Soil sampling results indicated limited residual Jet A fuel in surface soil near the top of the slope from the release. Surface water samples collected from five locations along the tributary during three separate events showed no impact to the seasonal creek. Jet A fuel was not detected in a follow-up soil sample collected from the top of the slope. Based on the limited extent of the impact to surface soil and the absence of a groundwater pathway, residual Jet A fuel in soil at the Site does not pose

a significant threat to human health or the environment. A No Further Action Determination Letter was issued on 17 December 2022. (KC)

## **REDDING**

### **WEST VALLEY CONSTRUCTION, 11276 MIDWAY ROAD, CHICO, BUTTE COUNTY**

The Site, a former construction equipment yard and maintenance shop, has involved two separate cleanup cases. UST Case 040118 was closed in October 1996 following the removal of two gasoline and diesel USTs and the tank pit over-excavation of contaminated soils. Due to concerns regarding surface spills, a separate Site Cleanup case was opened in November 2021. Composite surficial soil samples were collected in August 2021 and April 2022 for petroleum constituent analysis, and in October 2022, additional samples were collected from shallow borings. All results were below screening levels and on 10 January 2023 the case was closed under the Low-Threat Closure Policy.

### **UNION PACIFIC RAILROAD COMPANY, DUNSMUIR RAILYARD, NORTH FUELING FACILITY, CASE #SLT5R1087, SISKIYOU COUNTY**

In 2019 the Central Valley Water Board issued Cleanup and Abatement Order (CAO) R5-2019-0713 to the Union Pacific Railroad Company (UPRR) to require cleanup of petroleum contamination at its site in Dunsmuir. In July 2021, the US EPA issued a Clean Water Act Order to stop, control, and contain the source of contamination at the Site from reaching the Sacramento River. Central Valley Water Board staff are part of a Unified Command, including the US EPA, CDFW, and UPRR, which oversees the emergency response action implementation at the Site. UPRR continues to implement interim control measures, as required in the CAO, and to address non-aqueous phase liquid discharging to the river while complying with the US EPA Order and CAO. The 2023 Remedial Action Work Plan required by the US EPA Order was recently approved by the Unified Command. The work plan outlines excavation of impacted soils, installation of an oil control barrier (OCB), and restoration of the riverbank. The excavation will be approximately 25 feet deep and 100 feet wide along approximately 1,500 linear feet of shoreline. The OCB will be installed along the entire excavated area parallel to the river. The work plan will be executed in the 2023 construction season and is expected to be completed by the end of 2023. The Unified Command involvement is expected to cease after remediation of the shoreline. Staff will then resume lead agency responsibilities and continue to ensure compliance with the CAO.

## **SPECIAL FOCUS AREAS**

### **DELTA ACTIVITIES**

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

Board staff attended Delta RMP meetings to provide support for program implementation and for Board Resolution R5-2021-0054.

Board staff attended Technical Advisory Committee (TAC) meetings to discuss monitoring results and future monitoring activities for contaminants of emerging concern (CECs), pesticides, toxicity, and nutrients. Board staff participated in meetings to develop a long-term plan for nutrient and harmful algal bloom monitoring and special studies.

Board staff coordinated internally and with State Board staff to meet statewide contracting timelines for allocating funding to the Delta RMP for an interpretive report that will include a six-year trend analyses of Methylmercury in fish and water utilizing a comprehensive dataset from the Sacramento-San Joaquin River Delta.

## **DELTA NUTRIENT RESEARCH PLAN**

Board staff are implementing the Delta Nutrient Research Plan (Resolution R5 2018-0059) through special studies and coordination with the Delta Regional Monitoring Program's focus on nutrients.

- Board staff participated in a working group convened by the Delta Science Program that is developing a monitoring strategy for harmful cyanobacteria blooms in the Delta. A summary of the November 2022 public workshop is available here: [Delta Science Program Independent Science Workshops \(researchgate.net\)](https://www.researchgate.net/project/Delta-Science-Program-Independent-Science-Workshops)

(<https://www.researchgate.net/project/Delta-Science-Program-Independent-Science-Workshops>)

- A monitoring strategy is expected to be completed in fall 2023.
- Board staff continued project reporting and data management for a Proposition 1 funded project monitoring harmful cyanobacteria toxins in water and benthic organisms at ten locations in the Delta.

## **NITRATE CONTROL PROGRAM – EARLY ACTION PLAN DRINKING WATER IMPLEMENTATION**

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

([https://www.waterboards.ca.gov/cvsalts/salt\\_nitrate\\_bpa/](https://www.waterboards.ca.gov/cvsalts/salt_nitrate_bpa/))

As required by the Nitrate Control Program, Early Action Plan (EAP) implementation to provide safe drinking water to impacted communities began on 07 May 2021. As of 27 March 2023, Priority 1 Management Zones have collectively reported the following metrics:

**Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals  
(as of 27 March 2023)**

<b>EAP Metric</b>	<b>Total (all MZs)</b>	<b>Turlock/ Modesto</b>	<b>Kings</b>	<b>Kaweah</b>	<b>Tule</b>	<b>Chow- chilla</b>
Initial Estimate of Impacted Wells	~13,000	>5,000	>5,000	<1,000	<1,000	<1,000
Inquiries/Interest/calls	8,363	1,869	1,715	2,749	1,939	91
Testing Applications Submitted	3,188	941	1,583	305	309	50
Referred to Other Programs	831	184	418	81	140	8
Eligible Applications	2,225	757	1,033	224	169	42
Not Yet Responded	525	105	364	21	30	5
Wells Tested/ Scheduled/Known	1,462	525	575	215	115	32
Above 10 mg/L	920	381	299	178	50	12
Average Percent over 10 mg/L	63%	73%	52%	83%	43%	38%
Households receiving bottled water	995	372	372	177	56	18
Fill Station (FS) Locations	8	0	3	2	2	0
FS Average Gallons per Day	820	0	279	188	353	0
Total Households/ equivalents	1,405	372	512	271	232	18

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

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

The Lower American River has been listed as impaired due to fecal indicator bacteria on California’s 303(d) List. SWAMP is conducting monitoring to investigate the elevated indicator bacteria. To keep the public and local agency partners informed about current conditions, SWAMP monitors swimming beaches and recreation areas along the Lower American River and mouth of Steelhead Creek. New *E. coli* results are posted to an interactive [online map](https://arcg.is/1LXHmf0)

(<https://arcg.is/1LXHmf0>) each week.

SWAMP is also coordinating with local agencies on a study to identify the sources of fecal pollution to the Lower American River. To make the most of limited resources and collect a high-resolution dataset, it was agreed to break the study into multiple phases. Phase 1 of the study was completed in 2020 and targeted the 3-mile reach from

Paradise Beach to Sutter's Landing Regional Park. Microbial source tracking (MST) analysis of samples with elevated *E. coli* indicated that birds are the largest and most consistent source of contamination in this section of the river. Dogs are also a source of contamination in some areas, while humans were not a significant or consistent source during the study period. More information is available in the [Phase 1 Data Summary](#)

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/swamp/report\\_summary\\_sheet/lar\\_ph1\\_ds.pdf](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_sheet/lar_ph1_ds.pdf)).

Phase 2 of the study began in July 2021 and focused on dry weather sources in the river reach from Sutter's Landing Regional Park to the confluence with the Sacramento River. Monitoring included 12 sites on the American River and 1 stormwater sump. Phase 2 monitoring was completed in September 2022 and results are expected to be available in mid-2023.

## **SUMMER 2023 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. The 2022 monitoring studies included popular recreational spots in the Lower Kings River, Lower Kaweah River, and Upper San Joaquin River. Staff are developing plans for the Summer 2023 assessments. Staff will also conduct a microbial source tracking study next year in the Squirrel and Wolf Creek watersheds in Nevada County.

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

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/swamp/r5\\_activities/2021\\_r\\_bua/](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2021_r_bua/)).

## **CYANOBACTERIA AND HARMFUL ALGAL 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. In 2021, the FHAB program released the California Water Boards' Framework and Strategy for Freshwater Harmful Algal Bloom Monitoring (FHAB Monitoring Strategy). Board staff have begun implementing the FHAB Monitoring Strategy in the Central Valley through the development of partner monitoring efforts.

As part of the FHAB program, a [California Harmful Algal Blooms Portal](#)

(<https://mywaterquality.ca.gov/habs/>)

was developed and is located on the California Water Quality Monitoring Council's [My Water Quality webpage](#).

(<https://mywaterquality.ca.gov/index.html>)

The [FHAB Monitoring Strategy](#) full report can be found here:

([https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141\\_FHABStrategy\\_FullReport.pdf](https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_FullReport.pdf))

And the FHAB Monitoring Strategy [Executive Synthesis](#) and [Factsheet](#) can be found here:

([https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141\\_FHABStrategy\\_Synthesis.pdf](https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_Synthesis.pdf))

([https://ftp.sccwrp.org/pub/download/DOCUMENTS/FactSheets/1141\\_FHABStrategy\\_FactSheet.pdf](https://ftp.sccwrp.org/pub/download/DOCUMENTS/FactSheets/1141_FHABStrategy_FactSheet.pdf))

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.

Board staff are implementing the FHAB Monitoring Strategy through two of the six priority recommendations, including develop and implement partner monitoring and conduct focused assessments of HAB environmental drivers. Planning is underway for partner monitoring for the 2023 bloom season and Board staff submitted a proposal to the FHAB Program for additional funding to assist with partner monitoring. In collaboration with the SWAMP program and with the Basin Planning efforts on the State Water Board's bio stimulatory/bio integrity Policy Development, a monitoring study was conducted in two lakes that experience annual HABs (Lake Henshaw and Eastman Lake). HAB data and other water quality information was collected to understand the environmental conditions that are causing annual HABs. Board staff are analyzing the data collected.

When human or animal illnesses or deaths are reported, an interagency HAB illness team investigates each case. The team is comprised of the California Department of Public Health, the Office of Environmental Health and Hazard Assessment, the State Water Board, and the California Department of Fish and Wildlife. Using case specific information, the team determines whether each case may have been caused by HABs or whether the incident was due to other causes. Cases that are suspected to be HAB related are reported to the Centers for Disease Control and Prevention (CDC) [One Health Harmful Algal Bloom System](#).

(<https://www.cdc.gov/habs/ohhabs.html>)

More information on how freshwater [HAB related illness](#) tracking in California can be found at:

([https://mywaterquality.ca.gov/habs/hab-related\\_illness.html](https://mywaterquality.ca.gov/habs/hab-related_illness.html))

## **CENTRAL VALLEY CYANOBACTERIA AND HARMFUL ALGAL BLOOMS**

Cyanobacteria and HABs 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 HABs reported as of 21 March 2023 is provided in HABs Table 1 below.

**HABs Table 1. Bloom Summary of active advisories (as of 21 March 2023)**

<b>Category</b>	<b>Count</b>
Number of locations with active caution advisories <sup>1</sup>	0
Number of locations with active warning advisories <sup>1</sup>	0
Number of locations with active danger advisories <sup>1</sup>	0

Table Notes:

<sup>1</sup> The FHAB Program defines an active advisory as one with a confirmed observation within the last 30 days, in this case, all observations since 23 December 2022. Advisory levels are based on the FHAB Trigger levels for signage posting. This [guidance for planktonic blooms](#) is found here:

([https://mywaterquality.ca.gov/habs/resources/habs\\_response.html#posting\\_guidance](https://mywaterquality.ca.gov/habs/resources/habs_response.html#posting_guidance))

and for [benthic blooms](#) is found here:

([https://mywaterquality.ca.gov/habs/resources/benthic\\_posting\\_guidance.html](https://mywaterquality.ca.gov/habs/resources/benthic_posting_guidance.html))

## **GRANT OVERSIGHT**

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

Approximately \$4 million each year is awarded to the Water Boards 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](#)

([www.waterboards.ca.gov/water\\_issues/programs/nps/319grants.shtml](http://www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml)).

## **TITLE OF GRANT AND AMOUNT**

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

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta.  
(Closing 2/28/2024)

### **SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$603,654)**

Tehama County Resource Conservation District (TCRCD) will implement erosion and sediment control measures for a 3.5-mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E. The project will minimize discharges of sediment to South Fork Battle Creek. (Closing 2/28/2023)

### **BUTTE CREEK CAMP FIRE POST-FIRE RECOVERY PROJECT (\$785,524)**

The Butte County Resources Conservation District (BCRCD) will implement erosion and controls measures for a 2.4-mile section of Centerville Road in central Butte County, north of Butte Creek within the perimeter of the Camp Fire. The project will implement road upgrades at twenty-four erosion sites which will reduce discharges of sediment to Butte Creek. (Closing 8/31/2024).

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

### **TITLE OF GRANT AND AMOUNT**

#### **American River Headwaters Restoration (\$757,000)**

This Grant is for the purpose of thinning a minimum of two hundred acres (200) of overly dense forest to achieve a more fire-resilient condition in the Greyhorse valley area of the American River Headwaters and to repair existing roads, watercourse crossings, and to restore and protect watershed hydrology in Greyhorse Valley. This project is focused on forest health and fire resiliency in the headwaters of the North and Middle forks of the American River. Project tasks are focused on improving and protecting the watershed and water quality of these critical ecosystems.

Through September 2022 the American River Conservancy (ARC) has thinned approximately 766 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements. Additionally, the grantee has also completed restoration of the road network throughout the project area. (Closing 3/31/2023)

**Upper Bidwell Park Road and Trail Sediment Source Assessment and Reduction Project (\$706,352)**

This grant is for the purpose of addressing 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 has completed and submitted an Initial Study/Mitigated Negative Declaration for the project and a Notice of Determination was filed on 20 January 2022. The grantee has also completed 401 and 404 permit requirements for compensatory mitigation and has finalized permit applications. Implementation of sediment reduction road treatments on Upper Bidwell Park Road began in August 2022 and was completed in October 2022. The grantee is currently working on preparing a Final Project Report which will summarize road implementation activities. As part of the grant a Road Inventory and Sediment Reduction Action Plan was also prepared and submitted in March 2023. (Closing 6/30/2023)

**King Fire Significant Existing and Potential Erosion Sites (SEPES) (\$266,366)**

This grant is for the purpose of fixing 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 the State Board in July and filed with the Clearinghouse on August 26<sup>th</sup>, 2020.

Due to delays in the project the grantee has requested a grant amendment and time extension which was submitted on 4 April 2020. The grant amendment also requested a reduction in minimum treatment sites from 12 to 6. The grant extension was approved on 2 November 2022. In September 2022, a contract was awarded, however mobilization to the site was delayed towards the end of the month due to the Mosquito Fire that was burning within the drainage. (Closing 2/28/2024)

## OUTREACH

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

On 28 November 2022, staff issued a public notice of proposed case closure for a 60-day public comment period from 28 November 2022 to 27 January 2023 for the Express Lane Chevron (Case 1 and Case 2) located at 301 Pine street, Galt, Sacramento County. Staff mailed the notice to the owners and occupants of the Site property and the surrounding properties. Staff posted the notice on the Central Valley Water Board UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (MWM)

On 29 December 2022, staff issued a public notice of tentative General Order for a 30-day public comment period from 29 December and 28 January 2023 for the Quick-N-Save located at 2057 El dorado Street, Stockton, San Joaquin County. Staff posted the tentative order on the Central Valley Water Board Tentative Orders website. Staff did not receive comments from the public. (AMB)

\*On 7 February 2023, Meredith Howard, Lauren Smitherman, Angela Llaban, and Janaé Bonnell met with the Pit River Tribe to discuss their Tribal Beneficial Use designation request

On 10 February 2023, Central Valley Water Board staff began a public comment period on the proposed case closure, ending on 11 April 2023 for the E-Z Go Mini-Mart located at 518 Shields Avenue, Fresno, Fresno County. The notice was mailed to the parties in the vicinity of the Site, record owners of fee title, municipal water districts, agencies with authority to issue building permits, and other interested parties. The Public Notice has been posted on the Central Valley Water Board website UST-Decisions Pending & Case Closures webpage and uploaded to GeoTracker (KPD).

\*On 21 February 2023, Meredith Howard, Lauren Smitherman, Angela Llaban, and Janaé Bonnell met with the Santa Rosa Rancheria Tachi Yokut Tribe to discuss their Tribal Beneficial Use designation request.

On 21 February 2023, George Low, an Engineering Geologist with the Central Valley Water Board’s Redding office participated in a Greater Battle Creek Watershed Working Group (GBCWWG) meeting. The GBCWWG is comprised of various stakeholders such as landowners, Federal and State agencies, regional resource conservation districts and other non-governmental organizations. The purpose of the GBCWWG is to aid in facilitating, identifying, reviewing, and coordinating restoration activities within the watershed. The GBCWWG meets quarterly to discuss items of interest related to activities within the Battle Creek watershed. This quarter’s meeting briefly discussed updates regarding the relinquishing of PG&E’s FERC license and decommissioning of some of their hydroelectric facilities within the watershed. During the discussion Trey Hiller with the Battle Creek Water Shed Conservancy provided a presentation summarizing PG&E’s hydroelectric operating history within the watershed.

On 28 February 2023, Scott Hatton attended the Career Fair at California State University, Fresno.

On 2 March 2023, Kate Sjoberg an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Local Emergency Planning Committee (LEPC), Region III 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. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. This month's meeting discussed Cal OES grant updates, upcoming California Specialized Training Institute (CSTI) and other regional trainings. This meeting also included a Presentation by the San Diego Fire Department regarding lithium battery emergencies. The LEPC chair also briefly discussed membership recruitment on the committee. Participating agencies in attendance also provided brief agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

\*On 7 March 2023, Nonpoint Source Program staff member, Jennifer LaBay, attended an information item on the Clear Lake hitch at the State Water Board Meeting.

On 16 March 2023, George Low, an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Clear Creek Technical Team (CCTT) virtual meeting. The CCTT team is comprised of representatives from various Federal and State agencies, and regional resource conservation districts. The purpose of the CCTT is to facilitate the implementation of the Central Valley Project Improvement Act (CVPIA) and CALFED Bay-Delta Program (CALFED) restoration actions to improve salmon and steelhead habitat and the ecosystem on which these species depend on within Clear Creek. Participants provided updates on the watershed's fisheries, restoration projects, flow and temperature operations, and proposed gravel augmentations. In addition, the group discussed grant applicant submittals and statuses. Lastly a brief presentation and discussion was given by the Bureau of Reclamation reviewing 2023 storm event impacts within the watershed.

\*On 17 March 2023, Adam Laputz, Lauren Smitherman, Angela Llaban, and Janaé Bonnell met with the Southern Sierra Miwuk Nation to discuss their Tribal Beneficial Use designation request.

On 20 March 2023, Central Valley Water Board staff began a public comment period on the proposed case closure, ending on 19 May 2023 for the Texaco Building located at 347 Chowchilla Boulevard, Chowchilla, Madera County. The notice was mailed to the parties in the vicinity of the Site, record owners of fee title, municipal water districts, agencies with authority to issue building permits, and other interested parties. The

Public Notice has been posted on the Central Valley Water Board website UST- Decisions Pending & Case Closures webpage and uploaded to GeoTracker (MLE).

On 21 March 2023, Central Valley Water Board staff began a public comment period on the proposed case closure for Benson's Shell (Former) that will end on 19 May 2023 for the Benson's Shell (Former) located at 40843 Highway 41, Oakhurst, CA., Madera County. The notice was mailed to the parties in the vicinity of the Site, record owners of fee title, municipal water districts, agencies with authority to issue building permits, and other interested parties. The Public Notice has been posted on the Central Valley Water Board website UST Decisions Pending & Case Closures webpage and uploaded to GeoTracker (KPD).

On 21-23 March 2023, Janis Cooke attended the Interagency Ecological Program 2023 Annual Workshop in downtown Sacramento. Janis co-chaired the presentation session on water quality and phytoplankton.

On 29 March 2023, Scott Hatton gave a presentation to students in the Department of Earth and Environmental Sciences at California State University, Fresno, about what jobs are available and what it is like to work at the Central Valley Water Board offices.

## **PERSONNEL AND ADMINISTRATION**

### **STAFFING UPDATES – 1 JANUARY 2023 – 28 FEBRUARY 2023**

#### **PROMOTIONS**

Omar Mostafa – Senior Water Resources Control Engineer

Anne Walters – Environmental Program Manager I (Sup.)

#### **NEW HIRES**

Shaina Price – Engineering Geologist

Mason Gatti – Environmental Scientist

Mathew Jian – Environmental Scientist

Devon Owens – Environmental Scientist

Melanie Oxley – Environmental Scientist

Jessa Rego – Environmental Scientist

Annie Hall – Scientific Aid

Paige Pearson – Scientific Aid

Arshdeep Bhatti – Water Resources Control Engineer

Lamyae Zinebi – Water Resources Control Engineer

## RETIREMENTS

None

## SEPARATIONS

Karen Atkins – Environmental Scientist

Leah Jones – Environmental Scientist

Noah Henry – Scientific Aid

Andrea Diaz Cruz – Scientific Aid

Lourin Hubbard – Staff Services Manager I

## LEAVE OF ABSENCE

None

## SUMMARY OF POSITIONS

Total Authorized Positions: 301.2

Total Temporary Positions: 20.0

Total Vacant Positions: 24.0

### Sacramento

Authorized Positions: 152.5

Temporary Positions: 10.0

Vacant Positions: 11.0

### Fresno

Authorized Positions: 79.0

Temporary Positions: 6.0

Vacant Position: 11.0

### Redding

Authorized Positions: 49.7

Temporary Positions: 6.0

Vacancies: 3.0

## TRAINING UPDATES – 1 JANUARY 2023 – 28 FEBRUARY 2023

Class Title	Number of Attendees
2022/23 ASBOG Exam Review Course Webinars	2

<b>Class Title</b>	<b>Number of Attendees</b>
2022/23 California Specific Exam Review Course Webinars and Materials	1
2023 Multi-State Salinity Coalition Annual Salinity Summit	1
8-Hour HAZWOPER Refresher	17
AHA Heartsaver CPR AED	2
AHA Heartsaver First Aid	2
Beyond the Pandemic: The Hybrid Workforce 22-23	1
Bill Analysis	2
CA Leadership Academy: Supervisor Development Program	1
CASQA Quarterly Meeting - January	1
COVID-19 Awareness	39
Economics in the Rule Making Process	1
Effective Decision Making	7
Ergonomics Awareness: Creating a Healthy Work Environment	3
Field Safety Training	15
From Managing Self to Managing Others	6
Implicit Bias: What We Do Not Know	3
Injury and Illness Prevention Program/Hazardous Communication Training	78
Intermediate to Advanced R for Water Resources Data Science: Increasing Your Efficiency with Reproducible Workflows	5
Introduction to Data Visualization	1
Introduction to Emotional Intelligence	4
Introduction to R for Water Resources Data Science: Unleashing your potential to work with any kind of data	3
Introduction to SharePoint for Office 365: Exploring the Water Board's Environment	1
Leading Change	2
Mastering Grammar	6
MSHA Annual Refresher	2
Sexual Harassment and Abusive Conduct Prevention Training	1
Spring 2023 California Specific Geology Exam Preparation	1
Verbal Judo	4
Water Boards 101: Environmental Laboratory Accreditation Program (ELAP) - Combating Laboratory Fraud	10
Water Quality Regulation & Permitting	3
Working and Leading in Complex Organizations	1

## 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	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	6/18/2021	6/30/2023	\$60,000
20-072-150	Air Shasta Rotor & Wing, Inc.	Helicopter aerial surveillance services (Redding office – SB 901 funds)	6/15/2021	6/30/2023	\$95,000
22-025-150-1	Pitney Bowes	Postage Machine Maintenance and Service (Rancho, Redding & Fresno)	7/1/2022	6/30/2024	\$11,815.40
22-026-150	Department of Water Resources	Drone Aerial Surveillance (Rancho Cordova Office)	7/1/2022	6/30/2025	\$59,999.60

### Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/2020	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.	4/15/2021	1/31/2023	\$200,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
21-026-150-1	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin River, Sacramento River, and Delta system.	9/20/2021	3/31/2024	\$100,000
22-028-150	Department of Water Resources	Support for Sacramento Water Coordinated Monitoring	10/1/2022	9/30/2027	\$875,000
23-005-150	TBD	NPS Training Module Development	7/1/2023	6/30/2026	\$200,000
23-007-150	Regents of UCCE Fresno	Assist small-scale, diversified, and socially disadvantaged farmers in Fresno County with compliance for the Irrigated Lands Regulatory Program (ILRP)	7/1/2023	6/30/2026	\$149,998

## **FUTURE BOARD ACTIVITIES**

The following are significant Board meeting actions anticipated for the next three Board meetings. This is not a complete listing of all Board meeting items. This listing is tentative and subject to change for many reasons. The listing is intended to give a longer-range view of planned Regional Board activities per program.

### **JUNE 2023 BOARD MEETING**

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

- Cutler-Orosi WWTF (Revised WDRs)
- Central Valley Meats (Revised WDRs)
- California Nuggets (Revised WDRs)

## **TITLE 27 PROGRAM**

- Forward Landfill – WDR Revision
- Aqua Clear Farms – WDR Revision
- Bonzi Landfill – New WDRs
- Altamont Landfill Solidification Basins – New WDRs

## **NPDES PERMITTING**

- City of Red Bluff WWTP Permit Renewal
- Tehama County Sanitation District No. 1, Mineral WWTP Permit Renewal
- Mountain House CSD WWTP Permit Renewal
- The Boeing Company, GET Systems Permit Rescission (placed under Limited Threat General Order)
- Bear Valley Community Services District WWTF Permit Rescission (placed under WDRs)
- City of Colfax WWTP Permit Rescission (placed under Municipal General Order)
- City of Jackson WWTP Permit Rescission (placed under Municipal General Order)
- Cutler-Orosi Joint Powers Wastewater Authority WWTF Rescission (Placed under WDRs)
- City of Lathrop WWTP Permit Amendment

## **AUGUST 2023 BOARD MEETING**

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

- City of Dinuba WWTF (Revised WDRs)
- California Concentrates (Revised WDRs)
- Pacific Coast Producers (Revised WDRs)

## **TITLE 27 PROGRAM**

- North County Landfill – WDR Revision
- Steele Canyon Landfill – WDR Revision
- Sierra Conservation Center Landfill – WDR Revision

## **NPDES PERMITTING**

- American Valley CSD WWTP Permit Renewal
- Calaveras County Water District, Forest Meadows WWTP Permit Renewal
- Shasta CSA #17 Cottonwood WWTP Permit Renewal
- City of Stockton WWTP Permit Amendment

## **OCTOBER 2023 BOARD MEETING**

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

- Redding Regional Septage (Revised WDRs)
- City of Patterson WWTF (Revised WDRs)
- Sonora Regional WWTF (Revised WDRs)

## **NPDES PERMITTING**

- San Andreas Sanitary District WWTP Permit Renewal
- Sacramento Regional WWTP Permit Amendment

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

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

- General Order for Medium to Large Domestic Wastewater Treatment Facilities (New)
- General Order for Nut Hullers & Processors (New)
- General Order for Food Processors (New)
- Bear Valley CSD WWTF (Revised)
- Boundary Bend Olives (Revised)
- CDCR Mule Creek State Prison (Revised)
- City of Lone Tertiary Treatment Plant (Revised)
- California Dairies Inc., Tipton Milk Processing Facility (Revised)
- City of Arvin WWTF (Revised)
- Fowler Packing (Revised)

- Morning Star Packing Company (Revised)
- Pacific Coast Producers (Revised)
- Rabbo Bros. (Revised)
- Teichert Hallwood (Revised)
- Teichert Marysville (Revised)
- Teichert Vernalis (Revised)
- Teichert Woodland (Revised)
- Turner Road Vintners (Revised)
- Tucson Ridge Development WWTF (New)
- Ventura Coastal Corporation (Revised)
- Woodbridge Winery (Revised)

## **NPDES PERMITTING**

- City of Lincoln WWTP Permit Renewal
- City of Davis WWTP Permit Renewal
- City of Portola WWTP Permit Renewal
- Ironhouse Sanitary District WWTF Permit Renewal

## ATTACHMENT A

### ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 January 2023 and 28 February 2023

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	114	40%
Debris-General	65	23%
Grease Deposition (FOG)	21	7%
Rainfall Exceeded Design, I and I (Separate CS Only)	11	4%
Debris-Rags	8	3%
Pipe Structural Problem/Failure	8	3%
Debris from Lateral	7	2%
Flow Exceeded Capacity (Separate CS Only)	7	2%
Other (specify below)	7	2%
Debris-Wipes/Non-Dispersible	6	2%
Vandalism	6	2%
Inappropriate Discharge to CS	5	2%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	4	1%
Natural Disaster	4	1%
Debris from Construction	3	1%
Operator Error	3	1%
Pump Station Failure-Mechanical	2	1%
Pump Station Failure-Power	2	1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	0%
CS Maintenance Caused Spill/Damage	1	0%
<b>Total</b>	<b>285</b>	<b>100%</b>

## ATTACHMENT A

### Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 January 2023 through 28 February 2023

Office	Category 1	Category 2	Category 3	Total
5F	3	2	7	12
5R	2	1	2	5
5S	57	7	204	268
<b>Total</b>	<b>62</b>	<b>10</b>	<b>213</b>	<b>285</b>

- 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 January 2023 and 28 February 2023

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Calaveras Cnty Water District	6-Mile Village CS	885446	Category 1	50 feet south of Roller Bypass Rd on Vallecito Rd	Calaveras	Yes	383040	383040	06-Jan-23	Pipe Structural Problem/Failure
5S	El Dorado Irrigation District	Deer Creek CS	885343	Category 1	DC-2023-01-02	El Dorado	Yes	25842	25842	04-Jan-23	Natural Disaster

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	El Dorado Irrigation District	Deer Creek CS	885709	Category 1	DC-2023-01-04	El Dorado	Yes	25423	25423	20-Jan-23	Pump Station Failure-Mechanical
5S	El Dorado Irrigation District	Deer Creek CS	886571	Category 1	DC-2023-02-07	El Dorado	Yes	289800	289800	01-Jan-23	Natural Disaster
5S	El Dorado Irrigation District	El Dorado Hills CS	885586	Category 1	EDH-2023-01-01	El Dorado	Yes	650	650	14-Jan-23	Natural Disaster
5S	Georgetown Divide PUD	Auburn Lk Trls Onsite WW Disp CS	885293	Category 1	Auburn Lake Trails Station 16	El Dorado	Yes	1020	1020	05-Jan-23	Flow Exceeded Capacity (Separate CS Only)
5S	Grass Valley City	Grass Valley City CS	885267	Category 1	Bennet and E Main	Nevada	Yes	750	700	05-Jan-23	Other (specify below)
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	885305	Category 1	lift station 13	Lake	Yes	280	280	08-Jan-23	Operator Error
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	885319	Category 1	6840 Meadowbrook Drive, Clearlake, CA 95422	Lake	Yes	1400	1400	09-Jan-23	Flow Exceeded Capacity (Separate CS Only)
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	885320	Category 1	6810 Meadowbrook Drive, Clearlake, CA 95422	Lake	Yes	350	350	09-Jan-23	Flow Exceeded Capacity (Separate CS Only)
5S	Manteca City	Manteca CS	885524	Category 1	Eastwood Av	San Joaquin	Yes	296	246	13-Jan-23	Debris-Rags

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Manteca City	Manteca CS	886138	Category 1	Watson Av	San Joaquin	Yes	825	822	09-Feb-23	Grease Deposition (FOG)
5S	Modesto City	Modesto CS	885557	Category 1	419 Redwood Ave, Modesto, CA	Stanislaus	Yes	104	67	17-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885173	Category 1	320782	Sacramento	Yes	343	237	01-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885188	Category 1	320716	Sacramento	Yes	222	91	01-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885208	Category 1	320726	Sacramento	Yes	180	144	01-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885224	Category 1	320701	Sacramento	Yes	551	525	01-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885301	Category 1	320919	Sacramento	Yes	126	122	05-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885302	Category 1	320922	Sacramento	Yes	35	30	05-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885303	Category 1	320932	Sacramento	Yes	1194	1131	05-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885326	Category 1	320860	Sacramento	Yes	30	23	04-Jan-23	Debris from Lateral
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885371	Category 1	320991	Sacramento	Yes	59	30	07-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885372	Category 1	320998	Sacramento	Yes	176	56	07-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885375	Category 1	321015	Sacramento	Yes	1440	1405	08-Jan-23	Pump Station Failure-Power
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885376	Category 1	321024	Sacramento	Yes	1005	144	08-Jan-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885398	Category 1	321046	Sacramento	Yes	856	843	09-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885407	Category 1	321050	Sacramento	Yes	3856	3536	09-Jan-23	Flow Exceeded Capacity (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885408	Category 1	320992	Sacramento	Yes	67	22	07-Jan-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885409	Category 1	321041	Sacramento	Yes	20247	20223	09-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885410	Category 1	321064	Sacramento	Yes	4749	4629	09-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885467	Category 1	321253	Sacramento	Yes	376	111	10-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885480	Category 1	321304	Sacramento	Yes	96	10	12-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885487	Category 1	321336	Sacramento	Yes	224	213	12-Jan-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885516	Category 1	321349	Sacramento	Yes	1211	1207	14-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885518	Category 1	321230	Sacramento	Yes	153	150	09-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885521	Category 1	321360	Sacramento	Yes	1644	1639	14-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885564	Category 1	321356	Sacramento	Yes	1184	1180	14-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885566	Category 1	321348	Sacramento	Yes	6370	6356	14-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885572	Category 1	321390	Sacramento	Yes	2915	2879	15-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885593	Category 1	321412	Sacramento	Yes	1156	791	17-Jan-23	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885675	Category 1	321602	Sacramento	Yes	155	135	19-Jan-23	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885687	Category 1	321627	Sacramento	Yes	153	137	20-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885866	Category 1	322111	Sacramento	Yes	143	70	29-Jan-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885897	Category 1	322187	Sacramento	Yes	1070	1007	20-Jan-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885974	Category 1	322440	Sacramento	Yes	267	235	02-Feb-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885982	Category 1	322457	Sacramento	Yes	1464	1280	29-Jan-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	886078	Category 1	322693	Sacramento	Yes	60	39	08-Feb-23	Debris-General

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	886146	Category 1	322777	Sacramento	Yes	525	502	11-Feb-23	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	886551	Category 1	323189	Sacramento	Yes	20	15	24-Feb-23	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	886552	Category 1	323192	Sacramento	Yes	63	59	24-Feb-23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	886604	Category 1	323311	Sacramento	Yes	458	448	25-Feb-23	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	887005	Category 1	323702	Sacramento	Yes	13127	12313	14-Feb-23	Grease Deposition (FOG)
5S	Sacramento Regional CSD	Sacramento Regional CS	885374	Category 1	321014	Sacramento	Yes	4680	1972	08-Jan-23	Pump Station Failure-Power
5S	South Placer MUD	South Placer Mud CS	885963	Category 1	4105 Cedar St_Rocklin	Placer	Yes	10	5	06-Feb-23	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	885477	Category 1	2815 E. Marsh St. (Changed from 2915 E. Marsh St. - wrong address)	San Joaquin	Yes	3000	3000	14-Jan-23	Flow Exceeded Capacity (Separate CS Only)
5S	Stockton City MUD	City of Stockton MUD CS	885938	Category 1	402 Esperanza Way	San Joaquin	Yes	30428	11391	04-Feb-23	Grease Deposition (FOG)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Stockton City MUD	City of Stockton MUD CS	886185	Category 1	7310 Westlake Drive	San Joaquin	Yes	25755	1755	16-Feb-23	Flow Exceeded Capacity (Separate CS Only)
5R	Corning City	Corning Indust/Domestic CS	885454	Category 1	North street at rio del rey- Corning , ca.	Tehama	Yes	1400	700	13-Jan-23	Grease Deposition (FOG)
5R	Portola City	Portola CS	885668	Category 1	Railroad yard	Plumas	Yes	2500	2500	09-Jan-23	Rainfall Exceeded Design, I and I (Separate CS Only)
5F	County of Fresno	Fresno Co 31B-Shaver Lake CS	885819	Category 1	CSA 31B	Fresno	Yes	112000	100000	23-Jan-23	Pump Station Failure-Mechanical
5F	Los Banos Urban Area SW System	Los Banos City CS	885609	Category 1	Crest hills sewer main	Merced	Yes	5400	5400	20-Jan-23	Other (specify below)
5F	Madera County Public Works Department - Special Districts	SA-2 Bass Lake CS	886273	Category 1	Road 222 Bass Lake	Madera	Yes	300	100	16-Feb-23	Root Intrusion