

**EXECUTIVE OFFICER'S REPORT
23 FEBRUARY 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 December 2022 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

EMPLOYEES:

Mathew Boone, Senior Environmental Scientist
Kate Burger, Senior Engineering Geologist
Susan Lynn Coster, Senior Environmental Scientist
David Durette, Senior Water Resources Control Engineer
Stacy Gotham, Senior Water Resources Control Engineer
Griffin Perea, Senior Engineering Geologist
Jason Schroeder, Senior Engineering Geologist

UNIT: Redding Office Management Team

LOCATION: Redding Office

SUPERVISORS: Multiple

The Central Valley Water Board's Redding office management team is receiving this Superior Accomplishment Award for their dedication and adaptability in responding to the COVID-19 pandemic and ensuing emergency telework protocols.

The COVID-19 pandemic caused unprecedented disruption to the daily lives of people worldwide and resulted in far-reaching effects. Providing extra care for loved ones, handling daycare and school closures, and navigating a multitude of business and service disruptions were only a few of the challenges faced by many. Starting March 2020 and extending through August 2022, those effects were compounded by implementation of the Water Board's emergency telework program requirements.

Through all of this, the management team was steadfast in their commitment to the public, their staff, and the agency's mission. They worked tirelessly to ensure staff had the flexibility they needed to balance personal responsibilities while meeting program obligations; quickly adapted to electronic communication styles; developed electronic document production processes to guarantee timely issuance of agency correspondence; accommodated mandatory contact tracing requirements and travel restrictions; found ways to safely conduct site inspections; motivated staff by finding creative ways to collaborate remotely; and coordinated closely to ensure there was adequate office coverage at all times during the emergency.

Throughout the pandemic the team proved, just as it had during prior years wildfire emergencies, to be highly capable and adaptable. This superior accomplishment award is being presented in recognition of the selflessness, dedication, and positive attitude each member of the Redding office's management team exhibited throughout that most

challenging time; and to extend thanks and appreciation for their continued contributions to the Board's mission.

EMPLOYEES: MEREDITH HOWARD, SELINA COLE, ANDREW HAMILTON

UNIT: Delta Regional Monitoring Program Team

LOCATION: Rancho Cordova Office

TITLES: Environmental Program Manager I, Environmental Scientist, Sr. Environmental Scientist, Specialist

SUPERVISORS: Multiple

Andrew Hamilton, Selina Cole, and Meredith Howard are being recognized for their collective efforts on the Delta Regional Monitoring Program (Delta RMP), a high priority program for the Central Valley Water Board. The Delta RMP is a complex program that involves numerous and diverse permittees that provide funding to the program in lieu of compliance monitoring. The Central Valley Water Board determined that funding for ambient water monitoring efforts could be used more efficiently and effectively, while also providing a better understanding of water quality conditions in the Delta, if those funds were used for a coordinated, regional ambient monitoring effort, rather than continue to be used in individual, uncoordinated ambient water quality monitoring programs.

Selina Cole and Meredith Howard are both highly valued members of the Planning Section at the Central Valley Water Board. Selina Cole is an environmental scientist and is the technical lead staff and Quality Assurance Representative for the Delta RMP. Meredith Howard is an Environmental Program Manager and the Section Head for Planning, as the Program Manager of the Basin Planning, TMDL, and Delta Programs. She is also the Steering Committee Co-Chair of the Delta RMP. Together, they attentively oversee all the Delta RMP components and manage the many elements of the program that are instrumental to the success of the program.

In 2020, Meredith formed and led a subcommittee of the Steering Committee to address issues identified by Delta RMP participants from both regulatory agencies and regulated communities. The outcome of this subcommittee was a plan to revise the program and governance structure that culminated in Board Resolution R5-2021-0054, which approved the new governance structure and newly formed non-profit organization to implement the program.

Selina is a hard-working team member who takes on every project with enthusiasm, initiative, and a great attention to detail. Selina uses her experience and technical knowledge to provide sound recommendations and develop efficient processes even when complex challenges arise. She is often called upon by Board staff and RMP stakeholders for her knowledge and perspective of the Delta RMP.

Meredith and Selina have worked diligently with the RMP participants, both the regulated and regulatory entities, to implement the new program structure and direction

from the Board Resolution. Their leadership skills combined with critical thinking have been an essential asset to the successful implementation of the program and to address the many complexities of the Delta RMP.

Andrew Hamilton is a Senior Environmental Scientist Specialist working in the State Water Board's Office of Information Management and Analysis. Andrew is the State Water Resources Control Board's Quality Assurance Officer and provides the final approval of the Quality Assurance Project Plans for the Delta RMP. Andrew's technical expertise in quality assurance and his collaborative approach working with Central Valley Water Board staff and management has been critical to improve the quality assurance aspects of the program. Andrew handles his role in the Delta RMP with great poise and professionalism. Many of the successes of the Delta RMP are due to his thoughtful recommendations and his dedication to his role as the Quality Assurance Officer.

We are fortunate to have Andrew, Selina, and Meredith working on the Central Valley Water Board's Delta RMP. They are well deserving of the superior accomplishment recognition and are true champions for implementing the Water Board's mission.

EMPLOYEE: CAMERON ALFVING

UNIT: Surface Water Ambient Monitoring Program (SWAMP)

LOCATION: Fresno Office

TITLE: Environmental Scientist

SUPERVISOR: Scott Hatton, Supervising Engineer

Cameron has been working in the Fresno office, handling the Surface Water Ambient Monitoring Program (SWAMP) duties, for three years. Recently, he has led the efforts to collect harmful algal bloom and recreational beneficial use assessment samples from Eastman and Hensley Lakes, Lake Kaweah, and the San Joaquin and Kings Rivers.

Cameron also provided a prompt response to an inquiry from the public about the recent presence of algal blooms in surface water in Three Rivers. He also provided training and guidance to the Three Rivers Community Services District to collect samples at the Slick Rock Recreation Area at Lake Kaweah. His training duties also included training the San Joaquin River Conservancy on how to collect cyanobacteria samples at Sycamore Island on the San Joaquin River.

Cameron also assists with scheduling the SWAMP's Scientific Aids for both field sampling and data analysis.

Cameron is a great asset to the Fresno office's SWAMP program and is very dependable. He works independently with minimal oversight and limited resources of the program. He prioritizes his monitoring efforts and data analysis efficiently to evaluate the physical, chemical, and biological integrity of the State's waters.

EMPLOYEE: MARISSA BOSENKO

UNIT: Cannabis

LOCATION: Redding Office

TITLE: Associate Governmental Program Analyst

SUPERVISOR: Clint Snyder, Asst. Executive Officer

The Central Valley Water Board's Redding office management team is pleased to select Marissa Bosenko for the Superior Accomplishment Award. Marissa is an Associate Government Program Analyst (AGPA) in the Redding office and is being recognized for her outstanding performance. Marissa joined the Central Valley Water Board as an Office Technician in March 2020 and has worked as an AGPA in the Redding Cannabis Unit since July 2021.

Not only has Marissa proven to be an excellent project manager, but she has also developed a solid understanding of the Cannabis General Order and enforcement activities within the program. Marissa was tasked with developing an enforcement tracker so that the program could more effectively meet required deadlines and move projects through the progressive enforcement process. The enforcement tracker is now used by staff daily to manage cases. Marissa then took on revisions to the Cannabis webpage and worked with the Program Manager, staff and the IT department to ensure that it was properly updated, and all documents were either ADA compliant or removed from the website.

Marissa has taken on management of the Outreach side of the cannabis program, holding regular coordination meetings to discuss content with fellow staff and optimize the slide decks to succinctly deliver messaging to dischargers and consultants. She developed topic-based modules to be presented seasonally and in sync with requirements in the Cannabis General Order and the cultivators' growing season. These modules have been requested by program managers in other regions to assist in their outreach efforts. Marissa has done an excellent job tracking metrics for the program manager and generating required reports.

Marissa comes to work every day with a great attitude and is kind and considerate to her fellow staff and managers. We want to thank Marissa for being such a valuable member of the Cannabis program, the Redding office, and the region.

EMPLOYEES: DANIA JIMMERSON, JESSICA MULLANE (RADER)

UNIT: Non 15 Permitting, TMDLs & Delta (Senate Bill 1215 Project)

LOCATION: Rancho Cordova Office

TITLES: Water Resources Control Engineer, Sr. Environmental Scientist (Supervisory)

SUPERVISOR: Scott Armstrong, Sr. Engineering Geologist

After Wastewater Consolidation was adopted by the legislature in Senate Bill 1215, Dania Jimmerson and Jessica Mullane from the Rancho Cordova office took on this important project to identify and assist disadvantaged communities connect with local

sewer service providers. Dania and Jessica faced a seemingly insurmountable goal of eliminating literally thousands of failing on-site wastewater systems that represent a threat to drinking water resources here in the Central Valley.

Region 5 was tasked with implementing this new program with no blueprint other than the legislation and general goals established by the Division of Water Quality downtown. Dania and Jessica began by developing a program charter, working with other Water Board divisions, and reaching out to the regulated community to communicate the goals and benefits of this important mandate. Then COVID happened. Without missing a step, Dania and Jessica navigated a path forward, working with various Water Board programs such as CV-SALTS, OWTS/LAMPS, and SAFER, to identify and prioritize connecting qualified disadvantaged communities and local sewer service providers.

From day one, the amount of work Dania and Jessica have put into their research, coordination, and facilitation efforts is staggering. Their efforts are paying off as we are now seeing a steady stream of disadvantaged communities throughout the Central Valley motivated to abandon their antiquated wastewater systems.

Dania and Jessica's sustained dedication and diligence exemplifies the Water Board's commitment to protecting water quality and serving the greater community. It is for these reasons that Dania and Jessica are deserving of recognition and this award.

EMPLOYEE RECOGNITION AWARDS DECEMBER 2022 THROUGH JANUARY 2023

At the December 2022 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

EMPLOYEE: HANNAH DAILEY

UNIT: CV-SALTS

LOCATION: Rancho Cordova Office

TITLE: Engineering Geologist

SUPERVISOR: Anne Walters, Environmental Program Manager I

Hannah Dailey is a highly valued member of the CV-SALTS unit and is being recognized today for her efforts with the implementation of the Salt and Nitrate Control Programs.

Hannah came to the Central Valley Water Board in February of this year and immediately began making a significant contribution to the program. Her expertise in geology, groundwater modeling and data analysis has been invaluable. Hannah eagerly dived into a number of salt and nitrate characterization reports submitted by permittees across the region, providing critical data analyses to assess program compliance. Hannah also serves on a technical advisory group for the Salt Control Program's Prioritization and Optimization Study, providing review, feedback and recommendations

on critical water quality data models that will help identify and evaluate future salinity scenarios for long-term sustainability in the Central Valley.

Hannah takes on each task with enthusiasm and a great attention to detail. We are fortunate to have Hannah working in the CV-SALTS program at the Central Valley Water Board. Hannah's strong commitment and contributions to the CV-SALTS program make her well deserving of this award.

EMPLOYEE: JARROD RAMSEY-LEWIS

UNIT: Title 27 Permitting and Mining

LOCATION: Rancho Cordova Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Brad Shelton, Sr. Engineering Geologist

Jarrold joined the Title 27 Permitting and Mining Unit in October 2021 and has quickly become an integral part of the unit's operation. Jarrold is no stranger to State service, he came to us after a stint at CalRecycle, and previously worked at DTSC and even at the Central Valley Regional Water Quality Control Board in Fresno.

Jarrold has taken on several difficult projects and handled them with professionalism and diligence. For example, Jarrold was assigned a revision of the Buena Vista Landfill WDRs shortly after being hired. This project required working with the discharger and their consultants to review unique civil engineering concerns with a surface impoundment expansion. He was able to revise the WDRs and take them to the Board for adoption in a very short timeframe.

Additionally, Jarrold's background in Fraud Investigation gives him a unique viewpoint when conducting inspections and reviewing documents. Two projects Jarrold is assigned to, he uncovered significant non-compliance issues not previously addressed. In both cases, Jarrold developed well thought out and well supported internal memos documenting the findings.

Jarrold's attention to detail, excellent communication and writing skills, and his ability to quickly respond to internal and external needs are why I'm nominating Jarrold Ramsey Lewis for an Employee Recognition Award.

EMPLOYEES: JORDAN HENSLEY, ROBIN MEROD, LEAH JONES

UNIT: Mercury Program and Basin Planning Unit

LOCATION: Rancho Cordova Office

TITLES: Environmental Scientist, Water Res. Control Engineer, Environmental Scientist

SUPERVISOR: Lauren Smitherman, Sr. Environmental Scientist (Supervisory)

Jordan Hensley, Robin Merod, and Leah Jones are valued members of the Mercury Program and Basin Planning Unit. They are being recognized today for their ongoing efforts to revise the Delta Mercury Control Program. The Delta Mercury Control

Program consists of a phased TMDL and program of implementation, which was adopted in 2011. It includes a phase to study effectiveness of methylmercury controls and an opportunity for Board staff to incorporate findings from these studies and new data into the program. While TMDL development can be slow and daunting, this team fearlessly faces the project with enthusiasm and professionalism.

Over the past two years, the team has excelled in their analytical and statistical skills by working tirelessly to review point and nonpoint source methylmercury control studies; update the aqueous-to-fish tissue methylmercury linkage analysis; evaluate all sources of methylmercury to-and-within the Delta; recalculate load and waste load allocations; and consider effective implementation actions. The team is preparing a draft staff report detailing these findings that will undergo Scientific Peer Review early next year.

The team also work closely with permitting staff in the NPDES and 401 Certification programs to ensure TMDL requirements are appropriately documented and to require additional studies, when necessary. They communicate directly with dischargers to clarify requirements and review monitoring results.

All of this could not be accomplished without strong project management and leadership skills. The team communicates with one another with respect and patience as they develop a path forward. The team participates in and communicates project updates with external workgroups such as the Delta Tributaries Mercury Council, The Yolo Bypass – Cache Sough Partnership, the Delta Regional Monitoring Program, as well as hosting quarterly update meetings with USEPA.

Based on all the above-mentioned accomplishments, it is with great pleasure and gratitude that we recognize Jordan, Robin, and Leah as valued and respected members of this Unit. Their commitment and dedication to our mission is very much appreciated.

At the January 2023 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

EMPLOYEE: NICHOLAS WHITE

UNIT: Federal and Private Sites Cleanup Unit

LOCATION: Rancho Cordova Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Nathan Casebeer, Sr. Engineering Geologist

Nicholas White is a Water Resource Control Engineer in the Federal and Private Sites Cleanup Unit. Nic joined the Site Cleanup Program in March 2022 transferring from the 401 Certification and Dredging Unit. Since joining Site Cleanup, Nic has been extremely helpful in moving a variety of difficult cases forward. He has also restarted inactive cases that had not been able to receive attention due to staff vacancies.

While still new to the Site Cleanup Program, Nic is quickly grasping and learning to address the technical and regulatory issues raised at difficult cleanup sites. Nic is efficient in his project reviews and consistently produces high quality written review and response letters. Even though Nic is still developing a mature case load, he has produced about one staff letter per week over the last 6 months, which is a significant output.

Nic has also been willing and able to step in to turn around reviews of Work Plans or other documents that were needed on short notice due to workload shuffle issues. These tasks have included completing a Proposition 65 notice on the same day and a recent review of an excavation work plan that needed to be out before weather made the excavation work infeasible.

Nic's positive attitude, flexibility and willingness to help where needed plus his efficiency and skill in managing his cases are greatly appreciated and he is well-deserving of this Employee Recognition Award.

EMPLOYEE: WES OUIMETTE

UNIT: Irrigated Lands Compliance and Outreach

LOCATION: Rancho Cordova Office

TITLE: Engineering Geologist

SUPERVISOR: Bob Ditto, Sr. Environmental Scientist

Wes is being recognized for his outstanding contributions to the Irrigated Lands Regulatory Program. His hard work and dedication are shown in his consistent efforts to create new ways to identify those that still need to enroll in our program, as well as track compliance and outreach efforts.

Wes has been at the Water Board for over a decade and continues to help make the irrigated lands program more efficient. In 2016 Wes was recognized for his work developing an access database to help track compliance efforts. Data management is key to tracking our outreach and enforcement actions as we send out hundreds if not thousands of letters each year.

In 2020, he was recognized for his work in creating a GIS platform to identify who still needs to be enrolled in our program. With over 6 million acres of commercial irrigated lands, Wes continues to develop and enhance the capability of this program. He also coordinates with our Confined Animal Unit to identify facilities and land application areas associated with their program in a GIS map to help us separate what still needs to be enrolled in the Irrigated Lands Program.

Wes is also willing to go above and beyond his assigned work. He recently gave a coffee talk presentation on the GIS platform he developed to identify parcels that still need to be enrolled in our program. He takes the initiative to work with the State Board's GIS staff to continue to develop new ways to report our progress. He is currently

working on converting our access database information to a GIS platform to track our outreach and enforcement actions.

Wes more than deserves this award as he continues to push the envelope of technology to advance our data management tools. He is a critical part of our team and a great mentor to new staff. We would like to give him our sincere thanks for his exemplary work in the Irrigated Lands Regulatory Program.

At the 27 February 2023 All Staff Meeting, Executive Officer Patrick Pulupa presented an Employee Recognition Award to the following staff:

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!

At the 14 December 2022 All Staff Meeting, Assistant Executive Officer Clay Rodgers presented Employee Recognition Awards to the following staff:

EMPLOYEE: BRANDON SALAZAR

UNIT: Dredge and Fill

LOCATION: Fresno Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Matt Scroggins, Sr. Water Resource Control Engineer

Brandon successfully led two wetland restoration projects through a new statewide CEQA statutory exemption process. The process requires obtaining formal exemption concurrence from the California Department of Fish and Wildlife's Director. Fish and

Wildlife's website now features one of our exemption concurrence applications as an example for other projects to follow.

Most notably, Brandon has recently completed the following tasks:

- Submitted approximately 12 dredge/fill inspection reports for Senior review,
- Processed and issued a dredge/fill Notice of Applicability, one water quality certification, one certification extension letter, and drafted a certification for review,
- Reviewed several water quality certification monitoring reports, and
- Conducted a dredge/fill inspection of Sisk Dam Safety Modification Project.

Brandon consistently looks for ways to improve program tracking and processes. He has developed a dredge/fill inspection report template and worked to develop a streamlined way to translate photo geotag information into map figures showing each photo location and direction. This has required Brandon to get creative given our constraints on purchasing software and cameras that can easily complete this task. Brandon's efforts will help improve our inspection reports and could help other Water Board programs improve their inspection reports as well.

Overall, Brandon is easy to work with, is well organized, and can be counted on to stay on top of processing certification applications in a timely manner. His efforts are truly appreciated!

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 are reviewing PMPs submitted by the other two permittees in late 2022.

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 by on 6 October 2022 and baseline monitoring was 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, and Board staff continue to work with the City of Woodland to finalize its PMP. 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 12 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 (10) whose PMPs require revisions and the Phase II MS4 permittees (2) that did not submit PMPs.

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

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

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, as well as state and 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 Spring 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_project_s/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 7 November 2022 through 19 January 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 short 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 at:

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

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

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

CLEAR LAKE NUTRIENT CONTROL PROGRAM/TMDL/BLUE RIBBON COMMITTEE

Board staff began initiating the process to revise the Clear Lake Nutrient Control Program and 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 and monthly Blue Ribbon Committee Technical Subcommittee meetings and worked with the community members to review study proposals. Board staff coordinated with Tribal representatives and scientists to develop a HAB mitigation proposed project that will be submitted to the Blue Ribbon Committee in May for consideration. The 2022 Blue Ribbon Committee Annual Report was submitted to the California Legislature at the end of the calendar year. A copy of the report can be found on the Blue Ribbon Committee website.

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/)

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

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

CV-SALTS/SALT CONTROL PROGRAM

SALT PRIORITIZATION AND OPTIMIZATION (P&O) STUDY

In November 2022, the Central Valley Water Board reviewed the Data Management System Public Comment and Data Management Systems Modules and did not have any suggested revisions.

On 9 November 2022, Central Valley Water Board Executive Adam Laputz and Central Valley Water Board Staff (Anne Walters, Alisha Wenzel, Hannah Dailey, Cindy Au-Yeung, True Khang, and Jennie Fuller) attended a meeting to discuss the SAMP for the

Salt and Nitrate Control Program. Topics included reorganizing of the deliverables schedule and coordination with other programs informing the SAMP deliverables.

On 17 November 2022, 20 December 2022, and 20 January 2023, the Central Valley Water Board reviewed and submitted comments for different versions of the Draft Surveillance and Monitoring Program (SAMP) Workplan/QAPP.

On 17 November 2022, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Anne Walters, Jennie Fuller, True Khang, Cindy Au-Yeung, and Hannah Dailey) attended a CV-SALTS Executive Committee Meeting where topics included Central Valley Water Board enforcement activities, the SAMP draft workplan, and updates on the progress of the Salt Control Program Prioritization and Optimization (P&O) Study (including an overview of the modeling approach and analytical tools coordination, the proposed approach to technical work for 2023, the Sensitive Beneficial Use Research Report, the Baseline Characterization Report response to comments, and the Data Management System demonstration and implementation update). The Executive Committee approved the modeling small group recommendation to use the CV-SWAT tool for crop tolerance modeling.

On 23 November 2022, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Jennie Fuller) attended a meeting to brief State Water Resources Control Board Member Laurel Firestone on the background and current and future implementation of the P&O Study of the Salt Control Program.

On 15 December 2022, the Central Valley Water Board reviewed and submitted comments for the Draft Response to Comments for the P&O Study Draft Phase 1 Baseline Characterization Report.

On 16 December 2022, the Central Valley Water Board reviewed and submitted comments for the P&O Study Draft Sensitive Beneficial Uses Literature Review.

On 12 December 2022, Central Valley Water Board Staff (Anne Walters, Jennie Fuller) presented to members of the Environmental Protection Agency an informational item regarding the background and current implementation status of the Salt and Nitrate Control Programs for the Basin Planning Section.

On 12 January 2023, Central Valley 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 where topics included review of the 9 December 2022 CV-SALTS Salt and Nitrate Control Programs update to the Central Valley Water Board, Central Valley Water Board enforcement activities, an update on the SAMP development, and updates on the progress of the P&O Study (including the revised workflow and schedule for 2023, the status of the Phase 1 of the Baseline Characterization Report and Sensitive Beneficial Use Research Report, the Data Management System Development update, and the related policy and regulatory issues approach). Additionally, the P&O Study Workplan and Revised Schedule for 2023 was approved.

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](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/) can be found at:

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

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 de-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 to address comments received during the public review period. State Board approval hearing will be rescheduled once the response to comments has been completed.

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 provided 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 and are currently preparing for a CEQA Scoping Meeting (date 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.

In October 2022, two new staff were hired in the Basin Planning Section to support the TBU designation project. Angela Llaban is a Senior Environmental Scientist, Specialist and Janaé Bonnell is an Environmental Scientist.

As a commitment to providing government-to-government meetings, Board staff hosted a hybrid tribal meeting and provided an update on the TBU project on 10 November 2022. The goals of this meeting were to provide a project update to tribes and their representatives as well as to solicit input to incorporate into the Board’s approach. Board staff intend to host two to three tribal update meetings annually. Tribes and their representatives were polled to determine the best timeframes that consider tribal cultural activities and traditional tribal practices to ensure maximum participation.

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).

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).

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/)

BIOSTIMULATORY/BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for controlling bio stimulatory substances and cyanobacteria toxins under the Bio stimulation, Cyanotoxins, and Biological Condition Provisions (Provisions). Bio stimulatory substances are excess nitrogen and phosphorus that contribute to adverse aquatic plant and algal growth. Biological condition describes health of a waterbody using measures of aquatic species diversity and abundance.

To expand the available bio stimulatory and bio integrity information, Board staff are managing a contract with the Southern California Coastal Water Research Project (SCCWRP) for technical analyses that are focused on Central Valley streams, lakes, and reservoirs. Board staff reviewed two new reports by SCCWRP on applicability of Statewide streams models to Valley floor streams that are modified by human activities. For lakes and reservoirs, Board staff are working closely with SCCWRP staff to develop analyses of 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/)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM (NPDES)

PROJECTS

NPDES staff are working on the permit renewal for 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 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 (01 November 2022 through 26 January 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**

Facility	General Order Permit Number
Glenn Springs Holdings, Inc. and Miller Springs Remediation Management Inc., Former J.R. Simplot Facility	R5-2022-0006-007
California Water Service, Visalia Stations 11-02,13-01,19-01,23-01,27-01,34-01,40-01,41-01	R5-2022-0006-008
Contra Costa Water District, Canal Replacement Project Segment 5	R5-2022-0006-009

PERMITTING INITIATIVES

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)

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. FMZPs and comment letters are available at [FMZPs and comment letters](#) can be found here:

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

On 9 November 2022, Central Valley Water Board Executive Adam Laputz and Central Valley Water Board Staff (Anne Walters, Alisha Wenzel, Hannah Dailey, Cindy Au-Yeung, True Khang, and Jennie Fuller) attended a meeting to discuss the Surveillance and Monitoring Program (SAMP) for the Salt and Nitrate Control Program. Topics included reorganizing of the deliverables schedule and coordination with other programs informing the SAMP deliverables.

On 17 November 2022, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Anne Walters, Jennie Fuller, True Khang, Cindy Au-Yeung, and Hannah Dailey) attended a CV-SALTS Executive Committee Meeting where topics included a status update on the Nitrate Control Program Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, SAFER funding of co-contaminants in Management Zones, and the SAMP draft workplan.

On 10 January 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 11 January 2023, Central Valley Water Board Executives (Patrick Pulupa, Adam Laputz) and Staff (Anne Walters, Jennie Fuller, Sue McConnell, Robert Ditto, Cindy Au-Yeung, and Hannah Dailey) presented and attended a meeting regarding ILRP Coalitions and the Nitrate Control Program domestic well testing expectations, replacement water provision, and Management Zones.

On 12 January 2023, Central Valley 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 where topics included review of the 9 December 2022 CV-SALTS Salt and Nitrate Control Program update to the Central Valley Water Board, a status update on the Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, SAFER funding of co-contaminants in Management Zones, and an update on the SAMP development.

On 25 January 2023, Central Valley Water Board Staff Jennie Fuller attended the Chowchilla Management Zone Steering Committee Meeting. Topics included updates on Early Action Plan outreach, replacement water provision, and MZIP development.

GENERAL ORDERS UNDER DEVELOPMENT

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM

Three groups of discharges have been identified that are similar in nature and include a significant 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 the permitting backlog within the WDR Program.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

DATA MANAGEMENT AND CROSS PROGRAM COORDINATION

ILRP staff continues to develop new ways to manage data and tracking for our program. We continue to work with State Water Board staff on a GIS based platform to track our compliance activities. We are also continuing to work with the Confined Animal Unit to identify existing facilities to integrate this information into one GIS map. This map will help future outreach efforts to determine who still needs to be enrolled in the 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 November and 31

December 2026, samples were submitted to GeoTracker by 1175 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley and the Tulare Lake Basin Water Quality Coalitions. Approximately 13 percent of samples exceeding the drinking water standard. During the same period, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 3841 drinking water well exceedances staff has received 3747 notification responses. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary, for inadequate notification action.

Region-wide, there have been 17,463 samples submitted to GeoTracker and approximately 22% exceed the nitrate MCL (as of 31 December 2022)

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.

Coalition Area	Directive Letters sent 1 November- 31 December
East San Joaquin Water Quality Coalition	67
San Joaquin & Delta Water Quality Coalition	42
Total	109

REMINDER LETTERS FOR FAILURE TO SUBMIT THE IRRIGATION AND NITROGEN MANAGEMENT PLAN SUMMARY REPORTS

Water Board staff sends reminder letters prior to notices of violation to members who have failed to submit their Irrigation and Nitrogen Management Summary Reports by the Board-approved due dates. Coalition areas not shown had no reminder letters mailed during the reporting period.

ENFORCEMENT FOLLOW-UP

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program and ensuring late member reports are submitted to the Coalitions. Membership lists were received by Coalitions on 31 July as required by the Order. This list includes information on missing Irrigation and Nitrogen Management Plan Summary Reports and members who have dropped their membership. We issued reminder letters for late reports then followed up with Notices of Violation (NOVs) for those that didn’t respond. We are following up with 13260 directive letters for members who have dropped out of the coalition due to non-payment. We are currently preparing to send outreach to those identified by our mapping efforts as non-filers to the program. These will be followed up by 13260 directive letters. Those

who do not respond within the timeframe provided will be issued NOVs. There is no enforcement occurring beyond NOVs currently. Staff works closely with the agricultural water quality coalitions throughout the compliance and enforcement process.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
CG	Coalition Group
GAR	Groundwater Assessment Report
GQTMP	Groundwater Quality Trend Monitoring Program
GW	Groundwater
MPIR	Management Practices Implementation Report
MPU	Monitoring Plan Update
NCP	Nitrate Control Plan
QAPP	Quality Assurance Project Plan
SW	Surface Water
WB	Water Board

CALIFORNIA RICE COMMISSION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/29/22	2022 AMR	Under review	

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/22	AMPINAR	Under Review	

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
CG	Coalition Group
CVGMC	Central Valley Groundwater Monitoring Collaborative
GAR	Groundwater Assessment Report
MPU	Monitoring Plan Update
QAPP	Quality Assurance Project Plan
WB	Water Board

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
1/18/2023	MPU Addendum	Under review	Monitoring Plan Update addendum for the 2023 WY

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/22	AMPINAR	Approved 1/18/23	
1/18/23	MPU addendum	Under review	Monitoring Plan Update addendum for the 2023WY

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/9/22	Revised QAPP	Under review	
12/15/22	MPU	Finalizing review	

GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/22	AMPINAR	Under review	

TULARE LAKE BASIN COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
CGQMP ASR	Comprehensive Groundwater Quality Management Plan Annual Status Report
GAR	Groundwater Assessment Report
QAPP	Quality Assurance Project Plan
PEP	Pesticide Evaluation Proposal
SW MPIR	Surface Water Management Practices Implementation Report

BUENA VISTA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/23/2022	PEP 2023 Update	Approved	

CAWELO WATER DISTRICT COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/29/2022	PEP 2023 Update	Approved	Updated submittal

KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/29/2022	PEP 2023 Update	Under Review	Updated submittal
12/22/2022	SWMP – Revision 3	Under Review	

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/15/2022	2020 AMR Addendum	Under Review	

TULE BASIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/1/2022	PEP 2023 Update	Under Review	
12/8/2022	2021 GAR - Revised	Under Review	

OTHER PROJECTS

DATA MANAGEMENT

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

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

GROUNDWATER PROTECTION FORMULA AND VALUES

On 19 July 2021, 13 ILRP Coalitions jointly submitted proposed Groundwater Protection Values for townships within designated High Vulnerability Areas. The values represent each township's total estimated N load (from irrigated agriculture) passing below the root-zone. The Groundwater Protection Values were conditionally approved by the Executive Officer on 27 October 2021. A report containing proposed Groundwater Protection Targets was submitted on 19 July 2022. The Groundwater Protection Targets are estimates of nitrogen loads that are needed to meet receiving water limits. Development of the Groundwater Protection Targets was the focus of the April 13th and July 20th ILRP Stakeholder Meetings and multiple meetings with the Coalition and Environmental Justice representatives. The Targets report was released for public comment, and two comment letters were received. On 15 December 2022, an updated

report was submitted to address some of the comments made by Water Board staff and interested parties. The updated report was released for public comment. Staff recommendations on the Targets will be brought to the April Central Valley Water Board Meeting.

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	Under review	

DAIRIES/CONFINED ANIMAL FACILITIES

DAIRY DIGESTERS/ DAIRY POND LINER DESIGN REPORTS

Dairy digester projects usually begin as a double lined pond that once constructed is covered and converted to a digester. Staff has taken 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 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.

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 completed its work, and a report is pending.

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 has been put on hold pending 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 include the following:

Staff sent a “Notice of Rescission” letter to an operator in the Asphalto Oil Field. On 14 October 2022, the Central Valley Water Board adopted WDRs Order No. R5-2022-0065, which rescinds WDRs Order No. R5-2004-0056. The letter included a post-closure inspection report showing that the four ponds have been backfilled and are closed.

Individual letters were issued to dischargers stating their proposed closure workplans for facilities in the Edison, North Antelope Hills, and Poso Creek Oil Fields were incomplete and additional information needs to be submitted to the Central Valley Water Board for review and approval.

A Notice of Violation was issued to an operator for failure to submit Monitoring Well Installation Sampling Plans for permitted ponds in Lost Hills Oil Field as required by General Order Two, Waste Discharge Requirements for Oil Field Discharges to Land.

During November and December 2022, Staff completed one inspection related to oil field facilities. An inspection report for the facility was mailed to the respective discharger. No violations were observed during the inspection.

SPILL RESPONSE

Since the last Executive Officer’s Report, Staff responded to 10 oil field spills and upsets reported to the California Governor’s Office of Emergency Services (OES). These spills include the following:

On 9 December 2022, Staff received OES Spill Report #22-7221 reporting that between 70 and 100 gallons of crude oil was released into an unlined sump operated by Maranatha Petroleum, Inc. (Maranatha) in the Fruitvale Oil Field. On 15 December 2022 staff inspected the facility. Staff observed that the floor of the sump appeared mostly clean with a few remaining areas of oil impacted material. On 28 December 2022 Staff issued a Notice of Violation (NOV) to the operator for failing to submit a Report of Waste Discharge and discharging wastes that could affect the quality of underlying groundwater. Staff continue to work with Maranatha regarding completion of any remaining cleanup activities and requirements outlined in the NOV.

On 15 December 2022, Staff inspected a Standard Oil Company (Standard Oil) facility in the Kern Front Oil Field. The facility has been the site of multiple spills of crude oil and associated produced wastewater. The spill incidents were reported to OES on 21 September 2021, 23 November 2022, and 26 November 2022. On 13 January 2023 staff issued an NOV to the operator for failing to submit a Report of Waste Discharge and discharging wastes that could affect the quality of underlying groundwater. Staff continue to work with Standard regarding completion of cleanup activities and requirements outlined in the NOV.

On 29 December 2022, Staff received OES Spill Report # 22-7585 reporting that less than one barrel of crude oil and produced wastewater was discharged from a leaking pipe into a dry stream bed at a Chevron U.S.A. Inc (Chevron) facility in the Cymric Oil Field. On 3 January 2023 staff inspected the site. After the inspection, Staff received photographs showing that all oil had been removed from the area affected by the spill.

On 30 December 2022, Staff received OES Spill Report # 22-7613 reporting that less than one barrel of crude oil and produced wastewater was discharged from a leaking pipe into a dry stream bed at a Chevron facility in the McKittrick Oil Field. On 3 January 2023 staff inspected the site and observed that all oil had been removed from the area affected by the spill.

On 8 January 2023, Staff received OES Spill Report # 23-0203 reporting that approximately 1 barrel of crude oil and 27.4 barrels of produced wastewater was discharged to a dry stream bed at a California Resources Corporation facility in the Buena Vista Oil Field. On 13 January 2023 staff inspected the site. During the inspection Staff observed that stained soil in the stream bed had been removed. Staff also observed oil staining in a secondary containment area. After the inspection CRC indicated that 60 barrels of crude oil and 5,940 barrels of produced wastewater had been discharged into the secondary containment area. Staff continue to work with CRC regarding completion of cleanup activities within the secondary containment area.

On 9 January 2023, Staff received OES Spill Report # 23-0271 reporting that approximately 1 barrel of crude oil was discharged to a dry stream bed at a Berry Petroleum facility in the Midway-Sunset Oil Field. On 13 January 2023 staff inspected the site. The discharge was caused by a storm event breaching a containment area of an oil seep. The oil seep was previously reported, and Department of Fish and Wildlife staff are involved in activities associated with the seep monitoring and cleanup. Staff continue to work with Berry regarding completion of cleanup activities.

On 13 January 2023, Staff received OES Spill Report # 23-0408 reporting that approximately 115 barrels of crude oil was discharged from a tank to a secondary containment area at a Sentinel Peak Resources facility in the Midway-Sunset Oil Field. Phone conversations with the reporting party indicated that the facility spill was stopped, and all oil removed from the tank and secondary containment. The final spill volume is reported to be 130 barrels. Staff will follow up with Sentinel Peak Resources regarding completion of any remaining cleanup.

On 13 January 2023, Staff received OES Spill Report # 23-0413 reporting that approximately 35 barrels of crude oil and an undisclosed volume of water was discharged to an overflow pit at a Berry Petroleum facility in the McKittrick Oil Field. Staff will follow up with Berry regarding completion of any remaining cleanup.

On 13 January 2023, Staff received OES Spill Report # 23-0442 reporting that approximately 2 barrels of crude oil and 48 barrels of produced wastewater was discharged to “dirt” at a Berry Petroleum facility in the McKittrick Oil Field. Staff contacted the reporting party by phone, and they confirmed that the spill was cleaned up and that Department of Fish and Wildlife determined that no water ways or stream beds were affected. Berry told Staff that they would provide pictures of both pre- and post-cleanup activities with details of the cleanup performed. Staff continue to work with Berry verifying completion of the cleanup.

On 18 January 2023, Staff received OES Spill Report # 23-0582 reporting that approximately 22.6 barrels of crude oil and 33.6 barrels of produced wastewater was discharged from a pipe leak at a Chevron facility in the McKittrick Oil Field. Staff contacted the reporting party by phone, and they confirmed that the spill was contained and in the process of being cleaned up and no water ways or stream beds were affected. Chevron told Staff that they would provide pictures of both pre- and post-cleanup activities with details of the cleanup performed. Staff continue to work with Chevron regarding completion of the cleanup.

UNDERGROUND INJECTION CONTROL (UIC) PROGRAM

During the period from 9 November 2022 to 23 January 2023, Staff of the UIC Unit performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Formation Aquifer Exemption – Staff continues to provide State Water Board staff comments regarding the conduit analysis conducted within the proposed Aquifer Exemption area. Staff met with State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff and State Water Board staff met with CalGEM to discuss Water Board’s review of the operator’s revised draft remediation and monitoring plan. 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 continues to provide State Water Board staff comments regarding the conduit analysis for the proposed Aquifer Exemption areas. Staff met with State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff and State Water Board staff discussed and reviewed a conduit analysis mitigation plan received from CalGEM and the operators. 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 continues to provide comments to the State Water Board regarding the operator's revised aquifer exemption application.

UIC PROJECT REVIEWS

Staff issued nine no objection letters and memorandums for UIC projects in Cymric, Round Mountain, McKittrick, Kern River, Kern Front, South Belridge, Midway-Sunset, and Lost Hills Oil Fields.

Staff sent two letters and memorandums requesting information for UIC projects in the Mountain View and Kern Front Oil Fields.

Staff received five responses to reviews performed for proposed waterflood, water disposal, steam flood, and cyclic steam projects in the North Belridge, South Belridge, Monument Junction and Poso Creek Oil Fields. Staff is reviewing the information provided.

Staff received project information relating to two cyclic steam and steam flood injection projects in the Cymric and Lost Hills Oil Fields. Staff is reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Staff has not received nor reviewed Well Stimulation Treatment Applications, as none have been forwarded from CalGEM.

Staff reviewed five groundwater monitoring reports from operators in the Lost Hills, South Belridge, and Rose Oil Fields. Central Valley Water Board staff conveyed draft comments to State Water Board staff.

FOREST ACTIVITIES PROGRAM

DEVELOPMENT OF A FEDERAL NPS PERMIT FOR UNITED STATES FOREST SERVICE (USFS) AND BUREAU OF LAND MANAGEMENT (BLM) ACTIVITIES

Staff anticipates releasing the draft Waste Discharge Requirements for Nonpoint Source Discharges Related to Certain Activities Conducted by the BLM and USFS on Federal Lands (Federal NPS Permit) and draft EIR for public comment in the spring of 2023, with the expectation that the proposed permit will be scheduled for a Board hearing in late 2023.

INSPECTIONS

Program inspections include those conducted on Forest Practice projects (commercial timber harvesting conducted on local, state and private lands); USFS projects (commercial timber harvesting and vegetation management on federal lands); and Utility projects (vegetation management and post-fire recovery activities) across 16 million acres of forested lands in the region.

Project Type	Inspection Target	Inspections Conducted To Date
Forest Practice	200	108
Utilities	39	16
Federal Lands	31	13
TOTAL	270	137 (50.7%)

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 for the first time and dischargers just received invoices reflecting those increases. Staff are responding to questions from dischargers, some of whom received significantly higher discharges than previous years.

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		28	2		67	5	4	106

County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Colusa		1			2		5	8
Contra Costa					1		5	6
El Dorado		5			2			7
Kern							4	4
Kings							2	2
Lake		134	2	7	253	3	58	457
Fresno					6		9	15
Merced							9	9
Nevada	2	287	5		36		22	352
Sacramento							165	165
San Joaquin							6	6
Sierra		1						1
Solano							5	5
Shasta							23	23
Siskiyou							6	6
Stanislaus		7			1		39	47
Tulare							8	8
Yolo		16			43		3	62
Yuba							2	2
Totals	2	479	9	7	413	8	375	1293

CANNABIS OUTREACH

On 26 January 2023, Water Boards staff hosted the fourth outreach event of FY22/23. Staff presented how to complete the required Annual Monitoring Report.

COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT

Redding staff are prioritizing watersheds in Lake County related to impacts to the Clear Lake Hitch for the next enrollment enforcement effort.

ENFORCEMENT

- 19 January 2023 - Follow-up inspection in Shasta County
- 8 November 2023 - Follow-up inspection in Nevada County

INSPECTION REPORTS ISSUED

Rancho Cordova office:

- Juan Hernandez site, IR issued 22 November 2022
- Jessica Diana Garcia site, IR issued 22 November 2022
- Elite Holdings site, IR issued 2 November 2022
- Camden Kirlin, IR issued 18 November 2022

Redding office:

Shasta County Inspection Reports

- Omar Chavez site, IR issued 16 November 2022
- Monroy site, IR issued 15 November 2022
- Pacheco site, IR issued 15 November 2022
- Ovseevich site, IR issued 15 November 2022
- Lorenzo Living Trust, IR issued 15 December 2022
- Julius Blake site, IR issued 15 December 2022
- Phonvilay Khamphong, IR issued 5 December 2022

13267S ISSUED IN SHASTA COUNTY

- Carlile Jr, 13267 issued 21 November 2022
- Cabrera site, 13267 in review with OE

CLEANUP AND ABATEMENT ORDERS

- Southwick CAO, issued 14 November 2022

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 November 2022 through 31 December 2022, four 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 wet weather compliance, end-of-year inspections to meet FY 22/23 program goals, and increased compliance enforcement.

**Enforcement Table 1 – Central Valley Enforcement Orders
1 November 2022 through 31 December 2022**

Action Date	Agency	County	Notes
12/5/2022	Alturas	Modoc	ACL R5-2022-0500 in the amount of \$33,000 addresses Mandatory Minimum Penalties (MMPs) for effluent limit violations. Discharger completed a Compliance Project to help avoid future effluent limit violations.
11/3/2022	Grass Valley City	Nevada	ACL R5-2022-0506 in the amount of \$18,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
11/21/2022	Mt Shasta City	Siskiyou	TSO for R5-2022-0902 extends BOD, TSS, pH, and total coliform interim effluent limits that expire in the permit, provided Facility construction upgrades are completed in 2023.
12/14/2022	Southwick Construction LLC	Nevada	CAO R5-2022-0704 was issued for illegal discharge and disturbance, removal of material from the site. The CAO requires the discharger to stabilize the site, submit restoration monitoring and mitigation plan.

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 November 2022 through 31 December 2022**

Region	13267	NNC	ACL	CAO	EPL	NOV	SEL	TSO	UNK	VER	Total
5F	0	0	0	0	0	14	0	0	0	2	16
5R	0	0	0	0	0	17	0	0	0	1	18
5S	0	44	5	0	0	14	2	0	0	6	71
Total	0	44	5	0	0	45	2	0	0	9	105

**Enforcement Table 3 – Enforcement Actions in GeoTracker
1 November 2022 through 31 December 2022**

Region	13267	Letter – Notice	NOV	Notice to Comply	Staff Letter	Verbal Comm	Warning Letter	Total
5F		1	13	1	57	1		73
5R		1			24		1	26
5S	2	3	2		120	4		131
Total	2	5	15	1	201	5	1	230

**Enforcement Table 4 – ILRP Enforcement Actions
1 November 2022 through 31 December 2022**

Region	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Total
5F	0	0	0
5R	0	0	0
5S	109	230	339
Total	109	230	339

NITRATE CONTROL PROGRAM ENFORCEMENT INITIATIVE

Since May 2022, compliance and enforcement staff have reduced the number of non-responsive nitrate control program waste discharge to land dischargers from 52 to 9.

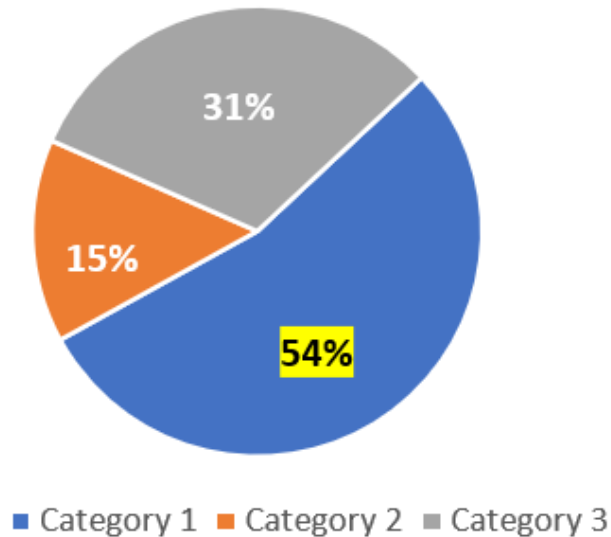
Although enforcement staff were diverted to storm-related inspections and spill response during and following recent major storm events, enforcement staff intend to meet with the Office of Enforcement in February 2023 to discuss the next steps for non-responsive dischargers. This effort is expected to lead to the next steps in enforcement which may include face to face meetings, inspections, pre-settlement letters, to name a few options.

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 reports for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 November 2022 through 31 December 2022, there were 6 reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA

Total Sanitary Sewer Overflows



Enforcement Figure 1: Central Valley Sanitary Sewer Overflow Summary 1 November 2022 through 31 December 2022

For the reporting period between 1 November 2022 through 31 December 2022, there were 189 total SSO spills: 48 Category 1, 13 Category 2, and 128 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).

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). The General Statewide Waste Discharge Requirement for Sewage Collection Agencies was replaced by Order 2022-0103-DWQ (General Order for Sanitary Sewer Systems), which was adopted by the State Water Resources Control Board on 6 December 2022. The General Order for Sanitary Sewer Systems will become effective on June 5, 2023, at which time enrollees will be required to comply with the requirements of the 2022 Order.

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 November 2022 through 31 December 2022, Central Valley Water Board staff have received a total of 20 complaints from phone calls, emails, and from the CalEPA Complaint database. To date, 17 (85%) have been investigated and closed or referred to other environmental enforcement agency. Investigations for 3 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.

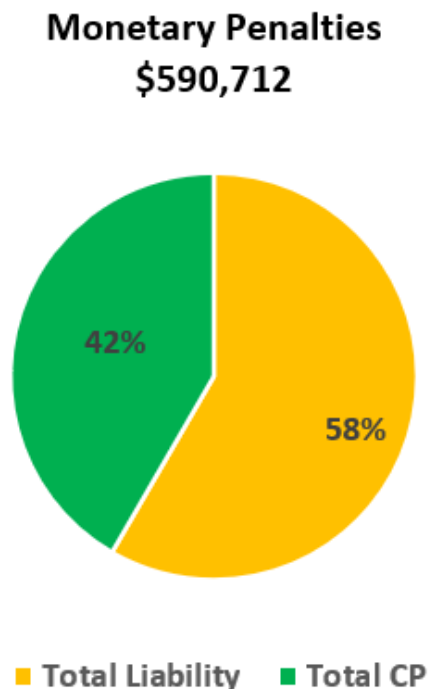
SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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 to 31 December 2022, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$590,712 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$344,712 was allocated to CAA and \$246,000 was allocated for CP.



Enforcement Figure 2: Region 5 – Sum of Total Monetary Penalties Issued during the fiscal year 1 July 2022 through 31 December 2022

CLEANUP SUCCESSES

The following provides a summary of Site Cleanup and Underground Storage Tank site progress metrics. Staff track site progress using a variety of tools available in GeoTracker and document when a site advances from an investigation phase to a remediation phase and track when a site attains regulatory closure. The metrics below represent site progress from 1 July 2022 through 31 December 2022. Due to the field oriented nature of Site Cleanup and Underground Storage Tank work, site activities are more active during the late spring than fall and winter. As a result, the completed metrics are recorded at a higher rate in the third and fourth quarters and do not warrant revising.

**Enforcement Table 5 – Region 5 Cleanup Action Summary
1 November 2022 through 31 December 2022**

Programs	Original Target	Actuals	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	4	0	0%	NA	NA
New SCP Sites into Active Remediation	19	11	61%	NA	NA
Cleanup Program Sites Closed	36	12	33%	NA	NA
New UST Sites into Active Remediation	16	10	62%	NA	NA
Underground Storage Tank Sites Closed	45	21	47%	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 generally based on site-specific information provided by the responsible party and assumes that the information provided was accurate and representative of site conditions. Most of these cases have been evaluated in accordance with criteria in the State Water Board’s Low-Threat Underground Storage Tank (UST) Case Closure Policy (*Low-Threat Closure Policy*). Upon completion of corrective action, section 2728(d)(2) of Title 23 of the California Code of Regulations requires public notification that corrective action has been completed and the regulatory agency does not intend to require additional investigation and cleanup. This document serves to provide public notification for the completion of corrective actions.

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

SACRAMENTO

LIBERTY UNION HIGH SCHOOL, 850 2ND STREET, BRENTWOOD, CONTRA COSTA COUNTY

The Site is a public high school. In the 1970s, high school staff discovered that the 500-gallon gasoline UST contained water, and they reportedly plugged the tank and covered it with soil. In 1985, a subsurface investigation identified a petroleum release from the UST. In 1986, the school removed the UST and over-excavated **100 cubic yards** impacted soil. The consultant operated a groundwater extraction remediation system in 1989. Between 2007 and 2016, the consultant intermittently operated a dual-phase extraction remediation system that removed a total of **2,600 pounds** of petroleum. In 2009, Central Valley Water Board issued a Water Code 13267 Order. Between 2010 and 2019, the consultant completed additional investigations to identify the extent of the petroleum impacts in soil, groundwater, and soil vapor. In 2019, the consultant concluded that the case met the *Low-Threat Closure Policy* criteria. Staff concurred. Staff terminated the Order and closed the case on 30 December 2022. (MSP)

TESORO #67064 (FORMER BEACON TRUCKSTOP #3088), 29770 COUNTY ROAD 8, DUNNIGAN, YOLO COUNTY

The Site is an active retail fueling station. Continued observation of fuel in monitoring wells led to the removal of the Site's six USTs in 1990 and excavation of **1,800 cubic yards** of impacted soil. Additionally, approximately **690 tons** of impacted soil was removed during Site construction activities in 2016. Multiple remediation activities were completed between 1987 and 2016. Product recovery removed approximately **1,550 gallons** of product. Air sparge and SVE remediation removed a total of approximately **7,400 pounds** of vapor-phase petroleum hydrocarbons. In the 25 March 2022 Closure Request, Orion concluded the Site meets the criteria for closure under the *Low-Threat Closure Policy* and poses as low threat to human health, safety, and the environment. Staff closed the case on 30 December 2022. (MJD)

CHEVRON, 400 SOUTH CANYON WAY, COLFAX, PLACER COUNTY

The Site is occupied by an active commercial petroleum fueling facility dispensing regular, plus, and supreme unleaded gasoline, and diesel #2. In December 1990, Prince discovered an unauthorized petroleum hydrocarbon release at a damaged product line and reported soil samples contained petroleum hydrocarbons. In April 1991, Prince removed five USTs and associated product lines and installed a new UST system. Since April 2004, Prince has evaluated petroleum hydrocarbon impacts in groundwater routinely monitoring and sampling eight groundwater monitoring wells. Between 2011 and 2016, Apex operated a DPE system removing approximately **11,200 pounds** of petroleum hydrocarbons from soil vapor and approximately **250,000 gallons** of

petroleum hydrocarbon impacted groundwater. Apex concluded the extent of petroleum hydrocarbons remaining in soil and groundwater beneath the Site is defined and relatively stable. Public participation notification generated no responses. In June 2022, Apex destroyed 8 groundwater monitoring wells, 6 remediation wells, 9 soil vapor points, filled remedial lateral pipelines with grout, and removed the remediation system. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on 30 December 2022. (KJ)

ARCO #2094, 1399 WOOD STREET WEST, WILLOWS, GLENN COUNTY

The Site is occupied by an active commercial petroleum fueling facility. In 1988, ARCO unintentionally punctured a 6,000-gallon capacity UST and released approximately 5,000 gallons of gasoline. In 1989, ARCO removed the historic USTs and installed a new UST system. In March 1990, Central Valley Water Board issued CAO 90 704 for Site cleanup. Between 1993 and 2021, ARCO assessed petroleum hydrocarbon impacts in soil, soil gas and groundwater collecting samples and conducting routine monitoring. ARCO removed: approximately 150 gallons of LPH utilizing a product skimmer (1990 1993); 91,000 gallons of petroleum hydrocarbon impacted groundwater; 5,000 gallons of petroleum hydrocarbons utilizing an SVE system (1993 1997); and 13 gallons of petroleum hydrocarbons during a DPE pilot test (2007). ARCO treated groundwater by injecting oxygen into the subsurface (1998 to 2005) and conducted air sparging pilot tests (2012-2013). Arcadis concludes the extent of petroleum hydrocarbons remaining in soil and groundwater beneath the Site is defined and relatively stable. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on 30 December 2022. (KJ)

FRESNO

MIDWAY MARKET, 9596 ROAD 236, TERRA BELLA, TULARE COUNTY

The Site is being redeveloped as a convenience store with retail motor fuel sales, same as former use. In 1988 gasoline constituents were detected in groundwater samples collected from the local water purveyor's supply well located on an adjacent property. Approximately **70 gallons** of gasoline were pumped from the well and gasoline was observed to recharge. An unauthorized release of gasoline constituents leaked from UST piping, which was discovered at the Site during 1989, and the local agency filed an Unauthorized Release (Leak) Contamination Site Report. The UST associated with the piping leak and three other USTs were abandoned in-place later that year.

Site investigation from 1989-1999 defined the extent of gasoline constituents, including the fuel oxygenate MTBE in soil at approximately 120 feet below ground surface (bgs) and 35 feet bgs from the release source, respectively. Groundwater monitoring from 1999 until 2019 determined that the contaminant plume was stable, with a length from 200-300 feet, decreasing to less than 200 feet during the last years of monitoring. Free phase petroleum product was observed on groundwater in the source area during the

first ten years of monitoring, and residual product was later observed in another area of the Site until the last two monitoring events. Approximately **600 lbs.** of gasoline constituents were removed during soil vapor extraction and air sparge pilot test during 2006. The final SVE and AS system operated from November 2011 to February 2014 and removed approximately **225,462 lbs.**, including **2,754 lbs.** of benzene and **60 lbs.** of MTBE. Approximately **88 gallons** of gasoline were removed by skimming pumps and hand bailing from September 2016 until April 2018.

Secondary source has been removed to the extent practicable. 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 *Low-Threat Closure Policy* on 2 December 2022. (JDW)

WHOLESALE FUELS, INC., 2200 EAST BRUNDAGE LANE, BAKERSFIELD, KERN COUNTY

The Site is a bulk petroleum fuel facility. Six USTs, dispensers and associated product piping were in the eastern portion of the property. A release of gasoline constituents was discovered during September 2015 when soil sampling was conducted beneath the product piping. Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX) and naphthalene were detected in soil samples. Approximately **20 cubic yards** of contaminated soil was excavated during December 2015 piping repairs. TPHg and total petroleum hydrocarbons as diesel (TPHd), the fuel oxygenates methyl tertiary butyl ether (MTBE), tertiary butyl alcohol (TBA) and ethanol, and naphthalene were detected in confirmation samples from the excavation. Benzene and ethylbenzene were detected to maxima of 95 and 190 mg/kg, which exceeded the Direct Contact and Outdoor Air Exposure screening level criteria contained in the Policy.

Site assessment during 2016 defined the extent of the release, which did not threaten regional groundwater, estimated to be approximately 300 feet bgs. Additional soil assessment was conducted during 2021 after UST removal. Approximately **100 lbs.** of gasoline constituents were removed during a 2017 soil vapor extraction (SVE) pilot test. The final SVE system operated from late 2018 until mid-2021, and removed approximately **7,700 lbs.**

Secondary source has been removed to the extent practicable. 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 *Low-Threat Closure Policy* on 2 December 2022. (JDW)

FORMER ZANINOVICH PROPERTY, 33310 TULE OAK DRIVE, SPRINGVILLE, TULARE COUNTY

The Site is a residential property in the Sierra Nevada foothills where a release of gasoline constituents was discovered during a UST removal. Investigation to determine the concentration and extent of the release in soil was conducted during January and

February 1994, and encountered highly weathered and fractured decomposed granitic bedrock from 10-70 feet below ground surface (bgs). During April 1994, approximately **1,620 cubic yards** of soil and weathered bedrock with an undocumented gasoline mass was removed to a maximum depth of 50 feet bgs. Groundwater was not encountered.

Residual gasoline constituents were detected during five groundwater monitoring events from May 1996 through April 1998 and one event during 2010, with a contaminant plume length of less than 100 feet. Gasoline constituents including fuel oxygenates were not detected in the onsite domestic well. Groundwater monitoring resumed in 2021 after the UST Cleanup Fund Claim was reactivated. Gasoline constituents, including fuel oxygenates and lead scavengers were not detected during two monitoring events. The domestic well was sampled three times without detections.

Secondary source has been removed to the extent practicable. 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 *Low-Threat Closure Policy* on 22 November 2022. (JDW)

DULAI'S MINI MART FUELS, 1915 NORTH CHESTER AVENUE, BAKERSFIELD, KERN COUNTY

The Site is a convenience store with retail motor fuel sales. A release of gasoline and diesel constituents was discovered when single-walled lined USTs, associated dispensers and product piping were removed during April 2022, prior to a UST system upgrade. Total petroleum hydrocarbons gasoline and diesel range (TPHg and TPHd) were detected at greater than 1,000 milligrams-per-kilogram (mg/kg) in samples from 13 and 17 feet below ground surface (bgs) beneath the ends of two USTs. Toluene, ethylbenzene, xylenes, naphthalene and tertiary butyl alcohol (TBA) were also detected. Assessment was conducted during August 2022 when five soil borings were drilled and sampled. Low concentrations of gasoline and diesel constituents were detected to approximately 55 feet bgs. Approximately **1,400 pounds** of gasoline constituents and **750 pounds** of diesel constituents remain in soil. The UST release did not have the mass or mobility to threaten groundwater. Water supply wells, surface water bodies and other sensitive receptors were not identified in the vicinity.

Secondary source mass in soil will be further reduced by natural attenuation. 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 *Low-Threat Closure Policy* on 18 January 2023. (JDW)

HOWARD LAMBERT PROPERTY, 327 NORTH LEMOORE AVENUE, LEMOORE, KINGS COUNTY

The Site was formerly an automotive service station with retail fuel sales. A gasoline release was discovered in 1987 when two USTs, fuel dispensers and associated piping

were removed. Holes were visible in the USTs, and gasoline odors were noted. A series of investigations beginning in 1988 delineated the extent of the release in soil. Contaminant mass was limited due to the thin vadose zone above shallow groundwater, encountered at less than 20 feet below ground surface (bgs). Smearing of floating petroleum product and dissolved concentrations caused lateral contaminant distribution.

Groundwater monitoring, conducted from 2001 to 2021, with floating product observed within and near the release area from 2010 - 2011 and 2015 - 2017. The groundwater contaminant plume in the release area was characterized by total petroleum hydrocarbon (TPHg) concentrations greater than 10,000 µg/L, benzene greater than 1,000 µg/L and elevated concentrations of toluene, ethylbenzene and total xylenes. Concentrations were greatly reduced by the end of monitoring and the plume was determined to be mature, stable, and in an area of low to flat gradients.

An undocumented gasoline mass was removed during the UST system removals. Approximately **1,800 lbs.** of volatile gasoline and diesel constituents in soil were removed from 2006 until 2009 during operation of a soil vapor extraction (SVE) system. **Less than one gallon** of petroleum product on groundwater and in monitoring wells was removed from 2016 – 2019 by skimming pumps and hand bailing.

Secondary source has been removed to the extent practicable. 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 *Low-Threat Closure Policy* on 18 January 2023. (JDW)

REDDING

ROBERTSON'S MARKET, 5291 LOWER WYANDOTTE ROAD, OROVILLE, BUTTE COUNTY

The Site (Assessor's Parcel Number 078-380-068-000) includes a small grocery store (Robertson's Market) and at least three rental houses. The source of contamination was a former UST fuel system which consisted of two 1,000-gallon tanks. The UST system was removed in 1998, although the system ceased operation approximately 25 years earlier. In February 2000, an initial site investigation was conducted and showed shallow soil and groundwater impacts. Routine groundwater sampling began in May 2001 and continued quarterly until September 2019. In March 2004, contaminated soil was encountered during the installation of a new sewer line along Lower Wyandotte Road, adjacent to the Site. In total 722 tons of contaminated soil was excavated and disposed of properly. Active remediation was conducted on and offsite from May 2010 until February 2018. In September and October 2020, additional soil removal activities were conducted. Soil and groundwater impacts have been adequately defined. The contaminant plume that exceeds the water quality objectives is less than 250 feet. Benzene concentrations in groundwater remained stable and are decreasing. As such, the Site was closed in November 2022 in accordance with the *Low-Threat Closure Policy*.

SITE CLEANUP PROGRAM SUCCESSES

SACRAMENTO

CONDITIONAL NO FURTHER ACTION DETERMINATION, SUTTER COUNTY AIRPORT PONDS, SUTTER COUNTY AIRPORT PONDS, 180

Between about 1970 and 1980, Onstott Dusters, who operated an aerial pesticide applicator business out of a terminal at the Sutter County Airport, discharged pesticide-laden rinsate from equipment and plane washing at the site, some of which percolated into an unlined drainage ditch. Beginning in 1981, Onstott Dusters contained and transported the rinsate to two plastic-lined evaporation ponds on Sutter County property. Under a separate Site Cleanup case, Onstott Dusters excavated the drainage ditch and received a No Further Action Determination in 2019.

Sutter County was deemed responsible for the evaporation ponds under the Toxic Pits Cleanup Act (TPCA) and was issued Cleanup and Abatement Order 89-704 in 1989 for cleanup of the ponds. Sutter County excavated the plastic liners and shallow soils from the ponds and stored them in a biotreatment cell. In 1992, Sutter County conducted soil and groundwater sampling to screen for organochlorine compounds (OCPs), organophosphate pesticides (OPPs), and chlorinated herbicides which appeared to indicate contaminants were present near or below residential screening levels. Subsequent investigations in 2018 and 2020, and by the request of Central Valley Water Board staff to fill in data gaps, found that OPPs and OCPs did not exceed residential screening levels in soil or groundwater. Accordingly, the Sutter County Airport Ponds case was recommended for closure consideration, and after no comments were received in a public comment period, a conditional No Further Action was issued on 19 December 2022.

REDDING

SST OIL HIGHWAY 32 SPILL, CA HIGHWAY 32, PM TEH 0.1, TEHAMA COUNTY

On 2 September 2022, an SST Oil tanker truck overturned resulting in the release of approximately 685 gallons of unleaded diesel fuel onto the pavement and a roadside drainage ditch of State Route Highway 32 in Tehama County. The release resulted in impacts to soil by total petroleum hydrocarbons (TPH) as diesel (TPH-d) and associated volatile organic compounds (VOCs). Contaminated soil was excavated, and the area was backfilled with clean fill. Surface water samples were collected from the eastern roadside ditch downgradient of the spill site. Analytical results were non-detect for TPH as gasoline, TPH-d, TPH as oil, and VOCs. The remaining soil contamination below the clean fill is expected to naturally attenuate. The Responsible Party was notified on 11 January 2023 that no further investigation or monitoring was required for the site.

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 reviewed the revised FY22/23 Current Use Pesticides Quality Assurance Program Plan (QAPP), submitted on 13 January 23. Upon approval, the Delta RMP may commence water quality monitoring for the water year.

Board staff coordinated internally to meet state contracting timelines for allocating funding to the Delta RMP for water quality analyses services. Board staff developed a detailed protocol for reviewing Board Resolution R5-2021-0054 deliverables and reorganized the file structure accordingly.

DELTA NUTRIENT RESEARCH PLAN

Board staff are filling information needs identified in Delta Nutrient Research Plan (Resolution R5 2018-0059) through special studies and work with the Delta Regional Monitoring Program.

- 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.
- 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/)

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 23 January 2023, Priority 1 Management Zones have collectively reported the following metrics:

Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 23 January 2023)

EAP Metric	Total (all MZs)	Turlock/ Modesto	Kings	Kaweah	Tule	Chow-chilla
Initial Estimate of Impacted Wells	~13,000	>5,000	>5,000	<1,000	<1,000	<1,000
Inquiries/Interest/calls	7,235	1,716	1,485	2,347	1,600	87
Testing Applications Submitted	2,835	876	1,356	268	289	46
Referred to Other Programs	792	176	418	56	137	5
Eligible Applications	1,914	700	809	212	152	41
Not Yet Responded	344	107	172	33	28	4
Wells Tested/ Scheduled/ Known	1,321	476	529	188	96	32
Above 10 mg/L	835	336	279	163	45	12
Average Percent over 10 mg/L	63%	71%	53%	87%	47%	38%
Households receiving bottled water	923	330	356	168	51	18
Fill Station (FS) Locations	8	0	3	2	2	0
FS Average Gallons per Day	861	0	284	195	383	0
Total Households/ equivalents	1,354	330	498	266	242	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>) 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).

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 early 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/).

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/)

(<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).

(<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)

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/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 collating and analyzing the data collected. Previous efforts to implement recommendations from the FHAB Monitoring Strategy in Clear Lake included a two-year study investigating

environmental drivers contributing to HABs through the Clear Lake Nutrient Control Program and TMDL (see section above).

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 likely 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)

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 23 January 2023 is provided in Cyanobacteria Table 1 below.

HABs Table 1. Bloom Summary of active advisories (as of 23 January 2023)

Category	Count
Number of locations with active caution advisories ¹	1
Number of locations with active warning advisories ¹	1
Number of locations with active danger advisories ¹	1

Table Notes:

¹ 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)

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

(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.

The 2023 Grant Solicitation for the 319(h) program has ended. State Board and the Regions are in the process of reviewing grant proposals. The Central Valley Water Board did not receive any proposals during this solicitation. [For more information, please visit the NPS website.](#)

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

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS

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 for increased fire resilience, repair existing roads and watercourse crossings, and to restore and protect watershed hydrology in the Greyhorse valley area of the American River Headwaters. 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.

Due to a number of factors such as COVID related delays, lack of contractor capacity, lack of resource availability (parts, materials, extended wait periods for mechanical support on equipment) and limited workdays due to fire danger restrictions American River Conservancy (ARC) requested a time extension of work completion requirements. This time extension was granted, and the grant agreement was amended on 13 October 2021.

Through September 2022 the 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)

The purpose of this project is to address the discharge of sediment from Upper Bidwell Park roads and trails into the 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 have finalized permit applications. Implementation of sediment reduction road treatments on Upper Bidwell Park Road began in August 2022 and was completed in October 2022. As part of the grant a Road Inventory and Sediment Reduction Action Plan is also being prepared that will provide a field erosion inventory and sediment reduction treatment recommendations for up to 37 miles of additional roads and trails within the Upper Bidwell Park. (Closing 6/30/2023)

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

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

Due to delays in the project the grantee has requested 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, and the contractor had planned to mobilize to the sites when the mosquito fire containment allows them to do so. In addition, all the treatment sites have been photographed. (Closing 2/28/2024)

OUTREACH

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

*On 19 October 2022, Central Valley Water Board staff began a public comment period on the proposed case closure of **DULAI'S MINI MART FUELS, 1915 NORTH CHESTER AVENUE, BAKERSFIELD, KERN COUNTY** that ended on and 19 December 2022. 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, posted on the Central Valley Water Board website UST-Decisions Pending & Case.

On 25 October 2022, Central Valley Water Board staff began a public comment period on the proposed case closure for **ROSE'S SPRINGVILLE SERVICE, 35601 STATE HIGHWAY 190, SPRINGVILLE, TULARE COUNTY** that ended on and 27 December 2022. 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, posted on the Central Valley Water Board website UST-Decisions Pending & Case Closures webpage, and uploaded to GeoTracker. Comments against closure were not received. (JDW).

On 15 November 2022, 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 generally 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. In efforts to track and prioritize issues of concern to the group they have developed an Issues Tracking Spreadsheet. This spreadsheet is used to highlight concerns that members of the group have and is used to prioritize, track status and resolutions of any issues identified within the group. This quarters meeting primarily focused on the relinquishing of PG&E's FERC license and decommissioning of some of their hydroelectric facilities within the watershed. The group also discussed and provided updates to the Issue Tracking Spreadsheet, and various project updates.

On 16 November 2022, Board Member Avdis and Irrigated Lands Program Manager Sue McConnell joined State Board Members Adamo and Maguire as well as NRCS, DWR and CDFA representatives for the Sustainable Conservation Tour in Madera. The tour highlighted drinking water challenges in small disadvantage communities, healthy-soils management practices and groundwater recharge projects.

*On 30 November 2022, ILRP staff met with representatives from several Environmental Justice Organizations for our regular quarterly update. This meeting focused on development of the Groundwater Protection Targets, integration of ILRP drinking water well data in management zone efforts to provide drinking water, and new ILRP annual reports.

On 7 December 2022, Janis Cooke participated in the Interagency Ecological Program biannual meeting for Project Work Teams and stakeholders. Attendees reviewed the

proposed Interagency Ecological Program's 2023 work plan for monitoring and special studies.

*On 8 December 2022, Jennifer LaBay participated at the Clear Lake Hitch Emergency Summit to discuss the reduction in the hitch population within the Clear Lake watershed and potential actions that could be taken to restore the population. The summit was attended by the federal and state recognized Native American Tribes, and federal and state agencies.

On 8 December 2022, 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 generally 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. This month's meeting focused on a variety of restoration, planning, in stream flow management activities, funding opportunities, and potential future meeting field trips.

On 15 December 2022, Irrigated Lands Regulatory Program Senior Eric Warren provided a presentation for an On-Farm Recharge University event held at the Kerman Community Center. The event was one of a series of six workshops intended to educate growers and landowners on the application of excess water to cropland for the purposes of groundwater recharge.

On 12 January 2023, ILRP staff met with Agricultural Coalition and Environmental Justice Organization representatives to discuss the proposed updated Groundwater Protection Targets report.

*On 17 January 2023, Lauren Smitherman, Adriana Ross, Janaé Bonnell, and Angela Llaban met virtually with the Mechoopda Indian Tribe of the Chico Rancheria to discuss the Tribal Beneficial Use Designation process.

On 18 January 2023, Geoff Rader participated in the Aerojet Community Advisory Group meeting. Geoff Rader provided a presentation on the extent of the Aerojet plume in Carmichael as well as Carmichael Water District's request to use inactive Aerojet extraction well 4701 to irrigate Ancil Hoffman Golf Course.

On 18 January 2023, Irrigated Lands Compliance and Outreach staff, Gurbinder Dhaliwal and Phil Carter gave a presentation at the Sacramento Valley Water Quality Coalition's Butte/Yuba/Sutter sub watershed annual meeting on the ILRP drinking water well monitoring requirements.

*On 24 January 2023, Jennifer LaBay, Jessica Rader, Meredith Howard, Bryan Smith, and Elizabeth Lee met with the MS4 Clear Lake permittees, Lake County, City of Clear Lake, and City of Lakeport to discuss the current time schedule order.

On 26 January 2023, Geoff Rader, Walter Floyd, and Helen Yu presented to members of the Sacramento Groundwater Authority's Regional Contamination Issues Committee. Geoff Rader provided a summary of Aerojet groundwater quality and remediation updates. Walter Floyd provided a summary of McClellan groundwater quality and remediation updates. Helen Yu provided a summary of PFAS data collected in the Sacramento area to date.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – 1 NOVEMBER 2022 – 31 DECEMBER 2022

PROMOTIONS

Denise Costache – Environmental Scientist

NEW HIRES

Vishaal Kumar – Water Resource Control Engineer

Joe Canchola – Engineering Geologist

Alexandra Pytlak – Engineering Geologist

Kelly Boyle – Environmental Scientist

Taylor Lawrence – Scientific Aid

Sara Maloney – Engineering Geologist

Andres Garcia – Water Resource Control Engineer

Leonardo Lugo – Scientific Aid

Karen Peng – Scientific Aid

Kayla Wolak – Scientific Aid

RETIREMENT

Russell Walls – Senior Water Resource Control Engineer

Joe Mello – Senior Engineering Geologist

Ralph Saucedo – Associate Governmental Program Analyst

Dale Essary – Senior Water Resource Control Engineer

Doug Wachtell – Engineering Geologist

SEPARATIONS

Denise Soria – Water Resource Control Engineer

Justin LaNier – Engineering Geologist

Siddharth Sewalia – Water Resource Control Engineer

Omar Erekat – Water Resource Control Engineer

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: 8.0

Vacant Positions: 9.0

Fresno

Authorized Positions: 79.0

Temporary Positions: 7.0

Vacant Position: 12.0

Redding

Authorized Positions: 49.7

Temporary Positions: 5.0

Vacant Positions: 3.0

TRAINING UPDATES – 1 NOVEMBER 2022 – 31 DECEMBER 2022

Class Title	Number of Attendees
8 Hour HAZWOPER Refresher	37
Active Learning for Career Growth	1
Advancing Racial Equity at CalEPA	2
ASBOG Exam Review Webinar Course	3
Basic GeoTracker Training	1
Beyond the Pandemic, The Hybrid Workforce 22-23 Training	1
California Water History: Navigating the Seven C's	4
Communicating Effectively in Complex Organizations: Delegating With and Without Authority	1
Conflict Resolution	1
Covid - 19 Awareness	92
Emotional Intelligence in Leadership	2
Environmental Sequence Stratigraphy	6
Field Safety Training	4

Class Title	Number of Attendees
Geo Symposium 2022 Webinar	2
Inspector Safety	1
Intermediate GIS: Watershed and Groundwater Basin Analysis	1
Intermediate Public Speaking	1
LNAPL Training	1
Microsoft Excel Advanced: Level 4 Advanced Features	3
Microsoft Excel Advanced: Level 5 Pivot Tables	2
Microsoft Word Level 3	3
Mine Inspection Workshop	1
PFAS Transport, Fate and Remediation in Soil and Groundwater	11
Quantifying the Contribution of Disinfection Byproducts to the Toxicity of Wastewaters Purified for Potable Reuse	4
Sexual Harassment Prevention Training	10
Strategic Thinking, Vision, and Values	1
USEPA Virtual Water Quality Standards Academy	1
Water Boards 101 - Training Services	2
Wilderness First Aid	1
Writing Effective Policies and Procedures	2

FISCAL UPDATE

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

CONTRACTS

Operational Support Services

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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
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

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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.

APRIL 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Sierra Nevada Cheese (Revised WDRs)
- Azteca Milling (Revised WDRs)
- Cutler-Orosi WWTF (Revised WDRs)

TITLE 27 PROGRAM

- Forward Inc and Republic Services, Inc., Forward Landfill, San Joaquin County, R5-2014-0006
- Aqua Clear Farms Inc. and Hatch Investments Limited Partnership, Aqua Clear Farms, Solano County, R5-2014-0105
- Ma-ru Holding Company Inc. and Bonzi Sanitation Landfill Inc. Partnership, Bonzi Landfill, Stanislaus County, R5-2007-0148
- Waste Management of Alameda County Inc., Altamont Landfill, Altamont Solidification Basins, Alameda
- City of Folsom, Folsom Corporation Yard Landfill, Sacramento County, R5-2008-0106

NPDES PERMITTING

- City of Lincoln WWTP Permit Amendment
- Municipal General Order (MGO) Renewal
- City of Redding, Stillwater WWTP Permit Renewal

- City of Mount Shasta WWTP Permit Renewal
- Reynolds Consumer Products, LLC, Molded Pulp Mill Permit Renewal
- Limited Threat General Order (LTGO) Amendment (to allow enrollment of The Boeing Company GET Systems)
- Calaveras County Water District, Copper Cove WWTP Permit Renewal
- Cutler-Orosi Joint Powers Wastewater Authority WWTF Rescission (Placed under WDRs)

STORM WATER AND WATER QUALITY CERTIFICATION

- The College Park, Site A Project (WDR)

IRRIGATED LANDS REGULATORY PROGRAM

- Groundwater Protection Targets (Information Item)

CONFINED ANIMAL FACILITIES

- Silva Dairy Farms, Silva Brothers Dairy #1, San Joaquin County, R5 2020-0029

JUNE 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- California Concentrates Company, California Concentrates, San Joaquin County, 98-136
- California Nuggets / Golden Gate Nut Company, California Nuggets, San Joaquin County, R5-2014-0056

NPDES PERMITTING

- City of Colfax WWTP Permit Rescission (placed under MGO)
- City of Jackson WWTP Permit Rescission (placed under MGO)
- City of Red Bluff WWTP Permit Renewal
- Tehama County Sanitation District No. 1, Mineral WWTP Permit Renewal
- Mountain House CSD WWTP Permit Renewal
- American Valley CSD WWTP Permit Renewal
- The Boeing Company, GET Systems Permit Rescission (placed under LTGO)
- Bear Valley Community Services District WWTF Rescission (placed under WDRs)

STORM WATER AND WATER QUALITY CERTIFICATION

- The Ranch in Antioch Master Planned Residential Community (WDR)

AUGUST 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto, Modesto Water Quality Control Facility, Stanislaus County, 94-030 & 99-112

NPDES PERMITTING

- Calaveras County Water District, Forest Meadows WWTP Permit Renewal

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

FOREST ACTIVITIES PROGRAM

- The proposed Waste Discharge Requirements for Nonpoint Source Discharges Related to Certain Activities Conducted by the Bureau of Land Management and United States Forest Service on Federal Lands (Federal NPS Permit) is expected to be prepared for board hearing in late 2023.

NPDES PERMITTING

- City of Lincoln WWTP Renewal
- City of Davis WWTP Renewal
- City of Lathrop WWTP Permit Amendment
- City of Stockton WWTP Permit Amendment
- San Andreas Sanitary District WWTP Permit Renewal

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – November 2022 and December 2022

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	73	38.6%
Grease Deposition (FOG)	38	20.1%
Debris-General	23	12.2%
Rainfall Exceeded Design, I and I (Separate CS Only)	8	4.2%
Flow Exceeded Capacity (Separate CS Only)	7	3.7%
Other (specify below)	7	3.7%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	6	3.2%
Debris from Lateral	4	2.1%
Debris-Rags	4	2.1%
Operator Error	4	2.1%
Debris-Wipes/Non-Dispersables	3	1.6%
Pipe Structural Problem/Failure	3	1.6%
Pipe Structural Problem/Failure - Installation	2	1.1%
Vandalism	2	1.1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	0.5%
Debris from Construction	1	0.5%
Inappropriate Discharge to CS	1	0.5%
Natural Disaster	1	0.5%
Pump Station Failure-Power	1	0.5%
Total	189	100.0%

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Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – November 2022 and December 2022

Office	Category 1	Category 2	Category 3	Total
5F	2	2	7	11
5R	2	1	1	4
5S	44	10	120	174
Total	48	13	128	189

- 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.

ATTACHMENT A

Sanitary Sewer Overflow (SSO) Spills (DETAILS) – November 2022 and December 2022

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	885263	Category 1	DC-2022-12-16	El Dorado	Yes	2,164,423	2164423	12/31/2022	Natural Disaster
5S	El Dorado Irrigation District	El Dorado Hills CS	885262	Category 1	EDH-2022-12-10	El Dorado	Yes	575,398	575398	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5S	Delta Diablo	Delta Diablo SD CS	885254	Category 1	Bridgehead Pump Station	Contra Costa	Yes	258,125	258125	12/31/2022	Other (specify below)
5S	Delta Diablo	Delta Diablo SD CS	885226	Category 1	Antioch Pump Station	Contra Costa	Yes	67,247	67247	12/31/2022	Other (specify below)
5S	Galt City	Galt CS	885092	Category 1	Live Oak Avenue	Sacramento	Yes	63,000	63000	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	El Dorado Irrigation District	Deer Creek CS	885257	Category 1	DC-2022-12-15	El Dorado	Yes	56,277	56277	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885266	Category 1	320697	Sacramento	Yes	49,520	49,520	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	El Dorado Irrigation District	El Dorado Hills CS	885259	Category 1	EDH-2022-12-08	El Dorado	Yes	43,765	43,765	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5R	Portola City	Portola CS	884648	Category 1	Railroad yard	Plumas	Yes	43,200	43,200	12/5/2022	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	885264	Category 1	DC-2023-01-01	El Dorado	Yes	40,920	40,920	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5S	El Dorado Irrigation District	El Dorado Hills CS	885468	Category 1	EDH-2022-12-11	El Dorado	Yes	29,472	29,472	12/31/2022	Flow Exceeded Capacity (Separate CS Only)

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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	885255	Category 1	DC-2022-12-14	El Dorado	Yes	25,740	25,740	12/31/2022	Pipe Structural Problem/Failure
5S	Sutter Creek City	Sutter Creek CS	885114	Category 1	Wastewater Treatment Plant Emergency Storage Basin Overflow Weir	Amador	Yes	25,000	25,000	12/31/2022	Other (specify below)
5S	Roseville City	Dry Creek CS	885166	Category 1	106 Zien Ct	Placer	Yes	20,280	12,280	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	El Dorado Irrigation District	El Dorado Hills CS	885261	Category 1	EDH-2022-12-09	El Dorado	Yes	17,000	17,000	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5S	San Joaquin Cnty DPW	Pacific Gardens Sanitary District CS	885091	Category 1	Kirk Avenue North of Del Rio Drive	San Joaquin	Yes	15,750	10,000	12/31/2022	Flow Exceeded Capacity (Separate CS Only)
5S	Nevada CSD No 1	Penn Valley CS	885101	Category 1	18038 Penn Valley Drive	Nevada	Yes	15,055	14,905	12/31/2022	Other (specify below)
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	885176	Category 1	121 Keller Circle	Sacramento	Yes	13,500	13,500	12/31/2022	Other (specify below)
5S	Sutter Creek City	Sutter Creek CS	885112	Category 1	System Manhole # 22 located in parking lot behind City Hall	Amador	Yes	9,240	9,240	12/31/2022	Debris-Rags
5F	Tuolumne Utilities District	Tuolumne Utilities District CS	884758	Category 1	13676 Tuolumne Road	Tuolumne	Yes	8,900	6,400	12/12/2022	Grease Deposition (FOG)

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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	Lake Cnty	Kelseyville Co Water Works Dis & AD9-2 CS	884127	Category 2	4600 Konocti Rd. Kelseyville, Ca 95451	Lake	No	6000	0	11/6/2022	Debris-Wipes/Non-Dispersables
5S	Modesto City	Modesto CS	885420	Category 2	720 B St, Modesto, CA	Stanislaus	No	3046	0	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Placerville City	Hangtown Creek CS	884401	Category 2	2850 cold springs rd	El Dorado	No	2750	0	11/19/2022	Root Intrusion
5S	El Dorado Irrigation District	Deer Creek CS	884922	Category 2	DC-2022-12-13	El Dorado	No	2540	0	12/16/2022	Root Intrusion
5S	Sacramento Regional CSD	Sacramento Regional CS	884694	Category 2	319516	Sacramento	No	2300	0	12/6/2022	Pipe Structural Problem/Failure
5F	County of Fresno	City of Fresno CS	884372	Category 2	215 N. Fresno St.	Fresno	No	2220	0	11/19/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885206	Category 1	320689	Sacramento	Yes	2,200	2,200	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884793	Category 1	319830	Sacramento	Yes	2,102	2,040	12/9/2022	Debris from Lateral
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	884225	Category 2	15883 Dam Rd Ext, Clearlake, CA 95422	Lake	No	1900	0	11/12/2022	Root Intrusion
5S	Sacramento City	City of Sacramento Combined CS	885083	Category 2	2548 10th Ave	Sacramento	No	1875	0	12/10/2022	Pipe Structural Problem/Failure - Installation
5S	Placer Cnty Dept of Facility Services	SMD No. 1 CS	885137	Category 2	Canal St temporary storage tank 1478	Placer	No	1850	0	12/31/2022	Damage by Others Not Related to CS

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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
					Grass Valley Hwy Auburn CA, 95603						Construction/Maintenance (Specify Below)
5F	Groveland CSD	Groveland CS	884575	Category 1	19364 Pine Mountain Drive (Lift Station 6)	Tuolumne	Yes	1,659	131	12/1/2022	Operator Error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884914	Category 1	320222	Sacramento	Yes	1,625	334	12/21/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884420	Category 2	318417	Sacramento	No	1610	0	11/11/2022	Other (specify below)
5R	Redding City	Redding City CS	884582	Category 1	888 Blackstone Ct.	Shasta	Yes	1,500	1,500	11/30/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885205	Category 1	320732	Sacramento	Yes	1,446	1,441	12/31/2022	Pump Station Failure-Power
5F	County of Fresno	City of Fresno CS	884330	Category 2	1746 W. Yale Ave.	Fresno	No	1410	0	11/15/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885159	Category 1	320679	Sacramento	Yes	1,171	1,170	12/31/2022	Debris-Rags
5S	Georgetown Divide PUD	Auburn Lk Trls Onsite WW Disp CS	884813	Category 2	Auburn Lake Trails Station 16	El Dorado	No	1050	0	12/10/2022	Other (specify below)
5R	Corning City	Corning Indust/Domestic CS	884657	Category 2	Sunrise way at Hyw 99 W Corning ca.	Tehama	No	1000	0	12/7/2022	Grease Deposition (FOG)

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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	Tracy City	Tracy CS	884579	Category 3	2958 Gomes	San Joaquin	No	900	0	11/21/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884431	Category 1	318831	Sacramento	Yes	837	210	11/14/2022	Root Intrusion
5S	Tracy City	Tracy CS	884580	Category 3	81 Portola	San Joaquin	No	800	0	11/11/2022	Grease Deposition (FOG)
5S	Brentwood City	City Of Brentwood CS	884752	Category 1	570 Valley Green Drive	Contra Costa	Yes	720	702	12/11/2022	Grease Deposition (FOG)
5S	Ironhouse Sanitary District	Ironhouse Sanitary District CS	885148	Category 1	3570 Stone Road (MPS027)	Contra Costa	Yes	650	650	12/31/2022	Inappropriate Discharge to CS
5S	Roseville City	Dry Creek CS	885184	Category 1	133 Church St	Placer	Yes	640	640	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884972	Category 1	320491	Sacramento	Yes	623	524	12/26/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884220	Category 1	318190	Sacramento	Yes	606	582	11/5/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885260	Category 1	320681	Sacramento	Yes	564	552	12/31/2022	Debris-General
5S	Jackson City	City Of Jackson CS	884774	Category 1	126 Bright Ave. @ Sierra St.	Amador	Yes	560	530	12/13/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884983	Category 3	319141	Sacramento	No	546	0	11/29/2022	Grease deposition (FOG)

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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	Nevada CSD No 1	Penn Valley CS	885090	Category 1	LS51 (12382 Spenceville road)	Nevada	Yes	514	257	12/30/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885027	Category 3	318899	Sacramento	No	475	0	11/14/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885038	Category 3	318301	Sacramento	No	449	0	11/9/2022	Root Intrusion
5F	County of Fresno	City of Fresno CS	884791	Category 3	3746 E. Townsend Ave.	Fresno	No	406	0	11/25/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884673	Category 1	319453	Sacramento	Yes	405	352	11/29/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885037	Category 3	318057	Sacramento	No	369	0	11/5/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884672	Category 1	319430	Sacramento	Yes	360	252	12/3/2022	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	884375	Category 3	124 E BIANCHI RD, STOCKTON, CA	San Joaquin	No	355	0	11/17/2022	Grease Deposition (FOG)
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	884884	Category 3	14699 Lakeshore Blvd. and 14610 Emory Ave., Clearlake, CA	Lake	No	350	0	12/20/2022	Grease Deposition (FOG)
5S	Placerville City	Hangtown Creek CS	884798	Category 1	3075 Washington St. Placerville Ca. 95667	El Dorado	Yes	350	300	12/9/2022	Root Intrusion

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5S	Murphys SD	Murphys CS	884663	Category 3	90 main st murphys ca 95247	Calaveras	No	300	0	12/7/2022	Debris-Wipes/Non-Dispersables
5S	Tracy City	Tracy CS	884202	Category 3	Wagtail Dr and Lierly	San Joaquin	No	300	0	11/9/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884998	Category 3	318823	Sacramento	No	265	0	11/20/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885001	Category 3	318294	Sacramento	No	265	0	11/9/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884222	Category 1	318243	Sacramento	Yes	255	141	11/8/2022	Debris from Lateral
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884693	Category 1	319473	Sacramento	Yes	250	228	12/6/2022	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Modesto City	Modesto CS	885395	Category 3	3617 Swain Dr. Modesto CA	Stanislaus	No	219	0	12/26/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884982	Category 3	317938	Sacramento	No	197	0	11/2/2022	Root Intrusion
5S	Antioch City	City Of Antioch CS	884765	Category 3	2301 Pepper Tree Way Antioch Ca 94509	Contra Costa	No	169	0	12/8/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884999	Category 3	318924	Sacramento	No	161	0	11/22/2022	Vandalism
5F	Atwater City	Atwater CS	884695	Category 3	Bellevue and Secretariat	Merced	No	160	0	12/4/2022	Grease Deposition (FOG)

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5S	San Andreas SD	San Andreas CS	884642	Category 3	523 Russell Road, San Andreas, Ca 95249	Calaveras	No	150	0	12/4/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885021	Category 3	318435	Sacramento	No	134	0	11/13/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884729	Category 1	Rainbow Bridge	Sacramento	Yes	120	20	12/8/2022	Grease Deposition (FOG)
5S	Modesto City	Modesto CS	884743	Category 3	1820 Bradford Ct, Modesto, CA	Stanislaus	No	114	0	11/21/2022	Grease Deposition (FOG)
5S	Lodi City	White Slough Water Poll Con Pu CS	884910	Category 3	880 East Victor Road, Lodi CA	San Joaquin	No	111	0	11/4/2022	Operator Error
5S	Modesto City	Modesto CS	884762	Category 3	650 Paradise Rd, Modesto, CA	Stanislaus	No	110	0	11/25/2022	Debris from Construction
5F	Bakersfield City	City Of Bakersfield CS	884948	Category 3	2816 Ashe rd	Kern	No	100	0	12/21/2022	Grease Deposition (FOG)
5S	Ceres City	Ceres CS	884851	Category 3	MH in front of 2205 Eloise Av.	Stanislaus	No	93	0	12/16/2022	Debris-Wipes/Non-Dispersables
5S	Placer Cnty Dept of Facility Services	SMD No. 1 CS	884333	Category 3	12125 Shale Ridge Rd.	Placer	No	89	0	11/14/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Brentwood City	City Of Brentwood CS	885549	Category 3	884 March Court, Brentwood CA	Contra Costa	No	75	0	12/19/2022	Grease Deposition (FOG)

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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	Lake Cnty	Nw Regional Waste Disp Fac CS	884318	Category 3	3259 Ogden road Lucerne, CA	Lake	No	75	0	11/17/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885025	Category 3	318413	Sacramento	No	72	0	11/11/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884218	Category 1	318159	Sacramento	Yes	71	58	11/8/2022	Root Intrusion
5F	County of Fresno	City of Fresno CS	884862	Category 3	2647 N. Weber Ave.	Fresno	No	63	0	11/15/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884771	Category 1	319776	Sacramento	Yes	63	53	12/11/2022	Root Intrusion
5F	County of Fresno	City of Fresno CS	884559	Category 3	5506 N. College Ave.	Fresno	No	57	0	11/14/2022	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884996	Category 3	318085	Sacramento	No	54	0	11/7/2022	Debris-General
5R	Redding City	Redding City CS	884736	Category 3	1250 Almond Ave	Shasta	No	52	0	12/10/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884993	Category 3	319003	Sacramento	No	52	0	11/24/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884906	Category 3	Fire Station 36	Sacramento	No	50	0	12/18/2022	Pipe Structural Problem/Failure

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5S	Placer Cnty Dept of Facility Services	SMD No. 1 CS	885164	Category 3	Auburn Ravine Lift Station - Manhole AA6-01	Placer	No	50	0	12/31/2022	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885161	Category 1	320680	Sacramento	Yes	48	44	12/31/2022	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884994	Category 3	319030	Sacramento	No	47	0	11/27/2022	Root Intrusion
5F	Tuolumne City SD	Tuolumne CS	884746	Category 3	Alley behind 18530 Pine St.	Tuolumne	No	40	0	12/10/2022	Pipe Structural Problem/Failure - Installation
5S	Modesto City	Modesto CS	884744	Category 3	380 Birchwood Ct, Modesto, CA	Stanislaus	No	40	0	11/24/2022	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	884377	Category 3	1141 S VAN BUREN ST Stockton, CA	San Joaquin	No	39	0	11/21/2022	Debris from Lateral
5F	Bakersfield City	City Of Bakersfield CS	884268	Category 3	3012 Spruce St	Kern	No	35	0	11/13/2022	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	884366	Category 3	8412 GALLOWAY B CT, Stockton, CA	San Joaquin	No	34	0	11/17/2022	Debris-General
5S	Placer Cnty Dept of Facility Services	SMD No. 2 CS	884267	Category 3	7635 Auburn Folsom Rd	Placer	No	30	0	11/7/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884981	Category 3	318912	Sacramento	No	29	0	11/21/2022	Root Intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884654	Category 1	319401	Sacramento	Yes	26	11	12/4/2022	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	884382	Category 3	7368 KELLEY DR STOCKTON CA,	San Joaquin	No	26	0	11/14/2022	Debris from Lateral
5S	West Sacramento City	West Sacramento CS	884924	Category 3	1648 West Capital	Yolo	No	24	0	12/16/2022	Grease Deposition (FOG)
5S	Lakeport City	City Of Lakeport CS	884450	Category 3	421 Forest Drive	Lake	No	20	0	11/28/2022	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	884570	Category 3	2523 PARRISH CT. Stockton, CA	San Joaquin	No	20	0	11/30/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884269	Category 1	318378	Sacramento	Yes	20	4	11/10/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885006	Category 3	318747	Sacramento	No	19	0	11/18/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884986	Category 3	319012	Sacramento	No	18	0	11/25/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885016	Category 3	318640	Sacramento	No	18	0	11/15/2022	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	884786	Category 3	762 W LOS FELIS AV	San Joaquin	No	18	0	12/6/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884747	Category 1	319755	Sacramento	Yes	18	11	12/10/2022	Root Intrusion

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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	885028	Category 3	318911	Sacramento	No	17	0	11/22/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884696	Category 3	1325 ROYAL OAKS DR	San Joaquin	No	17	0	11/29/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884710	Category 3	1758 S HARRISON ST. STOCKTON, CA	San Joaquin	No	17	0	12/6/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885031	Category 3	318530	Sacramento	No	16	0	11/14/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884546	Category 3	607 S SIERRA NEVADA ST	San Joaquin	No	16	0	11/6/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885023	Category 3	318025	Sacramento	No	15	0	11/4/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885032	Category 3	318753	Sacramento	No	15	0	11/18/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Stockton City MUD	City of Stockton MUD CS	884368	Category 3	95 W Downs ST Stockton, CA	San Joaquin	No	15	0	11/7/2022	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	884446	Category 3	142 W CLEVELAND ST, STOCKTON, CA	San Joaquin	No	14	0	11/24/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884565	Category 3	2313 S SACRAMENTO ST. STOCKTON, CA	San Joaquin	No	14	0	11/30/2022	Debris-General

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5S	Davis City	Davis CS	884748	Category 3	555 E. 14TH St.	Yolo	No	13	0	12/8/2022	Root Intrusion
5S	South Placer MUD	South Placer Mud CS	884838	Category 3	3429 Nathan Ct_Rocklin	Placer	No	13	0	11/14/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884991	Category 3	318675	Sacramento	No	12	0	11/17/2022	Root Intrusion
5S	South Placer MUD	South Placer Mud CS	884878	Category 3	4040 East Midas Ave_Rocklin	Placer	No	12	0	11/19/2022	Root Intrusion
5S	West Sacramento City	West Sacramento CS	884378	Category 3	1037 Elliot street	Yolo	No	12	0	11/14/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885018	Category 3	319111	Sacramento	No	11	0	11/29/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885019	Category 3	318380	Sacramento	No	11	0	11/10/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884909	Category 3	1173 Avon Way	Sacramento	No	10	0	12/19/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884952	Category 3	110 Kemp Ct	Sacramento	No	10	0	12/26/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	884664	Category 3	C05-065	Placer	No	10	0	11/15/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884985	Category 3	318844	Sacramento	No	10	0	11/21/2022	Root Intrusion

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884989	Category 3	318376	Sacramento	No	10	0	11/10/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	885444	Category 3	315 Margaret Way	Placer	No	9	0	12/22/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884984	Category 3	318316	Sacramento	No	9	0	11/10/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885036	Category 3	319216	Sacramento	No	9	0	11/29/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885039	Category 3	318666	Sacramento	No	9	0	11/16/2022	Debris-General
5S	West Sacramento City	West Sacramento CS	884379	Category 3	1035 Jefferson Blvd.	Yolo	No	9	0	11/18/2022	Grease Deposition (FOG)
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884468	Category 3	713 Stafford Street	Sacramento	No	8	0	11/23/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885009	Category 3	318940	Sacramento	No	7	0	11/22/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885010	Category 3	319014	Sacramento	No	7	0	11/25/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885024	Category 3	318137	Sacramento	No	7	0	11/7/2022	Grease deposition (FOG)

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5S	Stockton City MUD	City of Stockton MUD CS	884461	Category 3	607 S SIERRA NEVADA ST, STOCKTON, CA	San Joaquin	No	7	0	11/24/2022	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	884800	Category 3	6514 VILLAGE GREEN DR	San Joaquin	No	7	0	12/9/2022	Debris-General
5S	Roseville City	Dry Creek CS	884376	Category 3	1012 Hillcrest Av	Placer	No	6	0	11/4/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	885443	Category 3	420 Elefa St	Placer	No	6	0	12/7/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884992	Category 3	318706	Sacramento	No	6	0	11/17/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885008	Category 3	318808	Sacramento	No	6	0	11/20/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885022	Category 3	318777	Sacramento	No	6	0	11/18/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885029	Category 3	319028	Sacramento	No	6	0	11/26/2022	Debris-General
5S	South Placer MUD	South Placer Mud CS	884874	Category 3	6221 Princess Ct_Rocklin	Placer	No	6	0	11/16/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884324	Category 3	9932 TIVIOLI DR	San Joaquin	No	6	0	11/11/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884987	Category 3	319245	Sacramento	No	5	0	11/30/2022	Grease deposition (FOG)

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884988	Category 3	318071	Sacramento	No	5	0	11/5/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885030	Category 3	318059	Sacramento	No	5	0	11/5/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885033	Category 3	318778	Sacramento	No	5	0	11/18/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885035	Category 3	319022	Sacramento	No	5	0	11/26/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884820	Category 3	7548 KARLSBERG CI	San Joaquin	No	5	0	12/14/2022	Debris-General
5S	Antioch City	City Of Antioch CS	884571	Category 3	4417 Fawn Hill ct. Antioch CA. 94509	Contra Costa	No	4	0	11/22/2022	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884995	Category 3	319246	Sacramento	No	4	0	11/30/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885005	Category 3	318730	Sacramento	No	4	0	11/17/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885013	Category 3	318425	Sacramento	No	4	0	11/11/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885020	Category 3	318426	Sacramento	No	4	0	11/12/2022	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	884142	Category 3	904 W FLORA ST	San Joaquin	No	4	0	11/6/2022	Root Intrusion

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5S	West Sacramento City	West Sacramento CS	884380	Category 3	Briarwood and Oakmont	Yolo	No	4	0	11/8/2022	Grease Deposition (FOG)
5S	Woodland City	City of Woodland CS	884954	Category 3	224 Freeman St	Yolo	No	4	0	11/29/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884907	Category 3	731 Sands Way	Sacramento	No	3	0	12/19/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	885074	Category 3	89 Parry St	Placer	No	3	0	12/4/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884990	Category 3	318852	Sacramento	No	3	0	11/21/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	884997	Category 3	318377	Sacramento	No	3	0	11/10/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885002	Category 3	318864	Sacramento	No	3	0	11/21/2022	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885007	Category 3	318785	Sacramento	No	3	0	11/19/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885011	Category 3	318242	Sacramento	No	3	0	11/6/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885017	Category 3	318941	Sacramento	No	3	0	11/22/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885034	Category 3	318807	Sacramento	No	3	0	11/20/2022	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	884702	Category 3	224 Montrose Drive	Sacramento	No	2	0	12/8/2022	Root Intrusion
5S	Modesto City	Modesto CS	884763	Category 3	1713 Barbara Way, Modesto, CA	Stanislaus	No	2	0	12/8/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	884413	Category 3	1302 Sheridan Ave	Placer	No	2	0	11/9/2022	Root Intrusion
5S	Roseville City	Dry Creek CS	885042	Category 3	124 S. Lincoln St	Placer	No	2	0	12/3/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885003	Category 3	318213	Sacramento	No	2	0	11/8/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885012	Category 3	318389	Sacramento	No	2	0	11/11/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885014	Category 3	319017	Sacramento	No	2	0	11/25/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885015	Category 3	319050	Sacramento	No	2	0	11/28/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885026	Category 3	318799	Sacramento	No	2	0	11/20/2022	Vandalism

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5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885000	Category 3	318971	Sacramento	No	1	0	11/23/2022	Operator Error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	885004	Category 3	318496	Sacramento	No	1	0	11/14/2022	Operator Error
5S	Stockton City MUD	City of Stockton MUD CS	884367	Category 3	5337 BASILICA DR, STOCKTON, CA	San Joaquin	No	1	0	11/18/2022	Grease Deposition (FOG)