

**EXECUTIVE OFFICER'S REPORT**

**8-9 DECEMBER 2022**

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

**Patrick Pulupa, Executive Officer**



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## SUCCESS STORIES

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

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

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

#### SACRAMENTO

##### **RMB GARAGE, 715 NORTH HUNTER STREET, STOCKTON, SAN JOAQUIN COUNTY**

In April 2001, the responsible party (RP) removed three USTs from beneath the sidewalk along North Hunter Street on the east side of the Site property. The presence of petroleum in soil samples collected beneath the USTs indicated a release had occurred, and the RP filed an Unauthorized Release Report with the county in May 2001. Between 2001 and 2019, Advanced Geo Inc. (AGI) installed/advanced 15 groundwater monitoring wells, 3 soil gas wells, 1 dual-phase extraction (DPE) well, and 12 borings to assess the extent of and cleanup petroleum in soil, soil gas, and groundwater beneath the Site. AGI performed a DPE pilot test in 2006 and performed full-scale DPE remediation between September 2008 and November 2016. DPE remediation at the Site removed approximately **55,800 pounds** of hydrocarbons and over 11 million gallons of impacted groundwater from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), and staff closed the case on 28 September 2022. (AMB)

##### **BP #11244, 817 LEISURE TOWN ROAD, VACAVILLE, SOLANO COUNTY**

In 1990, the RP removed a 280-gallon leaking waste oil tank. Petroleum and PCE were detected in the excavation groundwater sample. The RP then over-excavated

**400 cubic yards** of soil. In 1992, the RP removed, remediated, and reused 625 cubic yards of soil from the pumps and product lines replacement excavation. In 1991, monitoring well product skimmers removed **213 gallons** of petroleum product. Between 1993 and 2003, the consultant operated an SVE remediation system, which removed **71,557 pounds** of vapor-phase petroleum. In 2004, the RP removed the second-generation tanks, pumps, and lines along with **630 tons** of over-excavated impacted soil. In 2006, the RP over-excavated an additional **300 cubic yards** of impacted soil for disposal. Between 2017 and 2020, the consultant operated an AS/SVE remediation system, which removed **15,500 pounds** of vapor phase petroleum. The consultant evaluated closure in a 30 October 2020 report. In July 2021, staff requested PCE analysis from groundwater monitoring wells. PCE was not detected in monitoring wells. Staff concurred with case closure. Public notice was completed in May 2021. The RP destroyed the monitoring wells and submitted the well destruction report on 28 June 2022. Staff closed the case on 10 October 2022. (BJL)

### **BEN HUR YARD, 4639 BEN HUR ROAD, MARIPOSA, MARIPOSA COUNTY**

The Site is an active public works yard. In 1991, the county removed a diesel UST and a gasoline UST. Soil samples contained diesel petroleum compounds. In 1994, the county excavated **300 cubic yards** of impacted soil from the UST area for offsite disposal. In 1997 the county discovered surface oil spilled on the ground in a different area. The county excavated **240 cubic yards** of waste oil-impacted soil for offsite disposal. In 2000, one of the county's supply wells contained MTBE and the county took the well out of service. The source of the MTBE plume is the Bartlett Petroleum case, located east of the Site. Bartlett Petroleum paid for the installation of a new supply well on the north side of the Site. Investigations in 2000 and 2018 confirmed that the Site release did not impact groundwater. In 2019, the consultant concluded that the case met the LTCP, and staff concurred. During the public notice, the adjacent downgradient property owner called with a concern for their new supply well. Staff sampled the supply well, which did not contain detectable petroleum compounds nor MTBE. The property owner was satisfied with the results. The county did not install wells for investigation or remediation of the case. Bartlett Petroleum continued to sample the Site's impacted former supply well as a monitoring well for that case. Staff is working on a Health and Safety Code Order for the Bartlett Petroleum case. Staff closed the Ben Hur Yard case on 10 October 2022. (BJL)

### **76 STATION, 1206 EAST MARCH LANE, STOCKTON, SAN JOAQUIN COUNTY**

The Site is an active gas station. In 1988, two USTs failed pressure tests and the county issued a release report. In 1991, the responsible party removed four USTs and **1,200 tons** of petroleum impacted soil. Following the consultant's characterization of the release, Central Valley Water Board closed the first case in March 1996. For the property sale in March 2005, an investigation identified another release, and the county opened a second case. In December 2012, ATC conducted a soil vapor extraction and air sparge pilot test that removed **six pounds** of petroleum. From 2012 to 2018, ATC defined the extent of the plume. In 2020, ATC concluded that the case met the criteria for case closure in the LTCP, and staff concurred in 2021. In 2022, ATC completed the

public notice, followed by well destruction and waste removal. Staff closed the case on 30 October 2022. (VFJ)

### **TRIANGLE ROCK, 5411 MAYHEW ROAD, SACRAMENTO, SACRAMENTO COUNTY**

The Site property is a 41-acre vacant parcel, previous utilized by Sacramento Aggregates, Inc. (SAI) to produce construction aggregates between 1984 and 1993. In 1997, SAI removed a 10,000-gallon diesel UST and **15 cubic yards** of impacted soil from the northwest corner of the property. The county opened a leaking UST case. In 2000, SAI's consultant completed a soil investigation, defined the extent of the impacts, and recommended case closure. In 2019, the county transferred the case to the Central Valley Water Board. In 2022, staff reviewed the case file, concurred with case closure under the LTCP, and completed the public notice. Staff closed the case on 30 October 2022.

### **BUGGY BATH CAR WASH (FORMER ARCO STATION #559), 2085 EAST MAIN STREET, STOCKTON, SAN JOAQUIN COUNTY**

The Site historically operated as a gas station from approximately 1940 to 1973. The Site currently operates as a self-service car wash facility. In 2017, the consultant for an adjacent case installed a monitoring well near the Site. Groundwater concentrations in the monitoring well identified a historic petroleum release from the Site, and staff opened the Site case. In 2020, the Site's responsible party completed investigations to define and characterize the extent of the release. Following seven groundwater monitoring events, the consultant concluded that the case met the criteria of the LTCP, and Board staff concurred. Staff closed the case on 30 October 2022.

### **FRESNO**

#### **LOOP RANCH, 22800 BROOME ROAD, KEENE, KERN COUNTY**

The Site is currently vacant and is being acquired by a nature conservancy. Previously, the Site was the headquarters of an operating cattle ranch. In August 2021, one 500-gallon UST was removed. Soil sample analytical results indicated the presence of gasoline, diesel, and motor oil range constituents in subsurface soil. The vertical extent of contamination was found to be approximately 30 feet below ground surface (bgs) and extended approximately 15 feet laterally. Groundwater was not encountered during the investigation and is not expected to be impacted by the release. Analytical data from shallow soil samples indicated that the LTCP criteria are met. The estimated petroleum hydrocarbon mass in soil is approximately **594 pounds**. An unknown hydrocarbon mass in soil was removed during the tank removal process. The remaining petroleum hydrocarbons should not pose a threat to human health and safety or the environment and should continue to naturally attenuate. Board staff issued a case closure summary and a case closure letter on 19 September 2022. (MLE)

## REDDING

### SOUTHLAND 7-11 STORE #22474, CASE #040120, BUTTE COUNTY

The Site has been an active gasoline station for several decades. The Site is operated by 7-Eleven, Inc. of Dallas, Texas (Discharger). In February 1994, the Oroville Fire Department observed leakage from a dispenser in the northeast end of the pump island. The Discharger conducted soil investigations in 1994 and 1997 and replaced the three 10,000-gallon single-walled steel USTs with double-walled tanks in 1998 with oversight by Butte County Environmental Health Division (BCEHD). An estimated 4,450 pounds of gasoline constituents (total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tert-butyl ether (MtBE)) were removed from beneath the former dispenser island, piping, and USTs. Petroleum constituents remaining in soil after the removal included: TPHg; benzene, toluene, ethylbenzene, and xylenes (BTEX); MtBE; and tert-butyl alcohol (TBA).

On 12 August 1998, BCEHD referred the case to the Central Valley Water Board. Between September 1998 and March 2003, the Discharger installed five groundwater monitoring wells (MW-1 through MW-5). Concentrations of petroleum constituents exceeding water quality objectives (WQOs) were reported at MW-3, located downgradient (south-southeast) of the dispenser island. Between 2006 and 2014, the Discharger installed five additional monitoring wells (MW-6 through MW-10) and four remediation injection wells (I-1 through I-4), and two additional soil borings (SB-1 and SB-2).

Between the second quarter of 2006 and fourth quarter of 2014, the Discharger performed active remediation consisting of direct injection of oxygen to groundwater. When remediation goals had apparently been met, bi-weekly injection events were curtailed on 19 September 2014 with concurrence from Central Valley Water Board staff. However, in March 2015, concentrations of TPH-g and MtBE sharply increased to levels above WQOs (100 ug/L and 5 ug/L, respectively) in monitoring well MW-5, which had previously exhibited only low or non-detect levels.

In October 2015, Central Valley Water Board staff requested a work plan to investigate MtBE concentrations in the vicinity of MW-5. In August 2017, the Discharger installed additional monitoring wells MW-11 through MW-15. Based on sampling results from these wells, the Discharger developed a revised Remedial Action Plan proposing use of a fifth additional oxygen injection well (I-5) to address the MtBE near MW-5. Bi-weekly injection was performed from June 2018 until mid-January 2020, reducing MtBE concentrations in all monitoring wells to within the WQO, except for MW-3 and MW-11. Active remediation ceased in January 2020 with Central Valley Water Board staff concurrence.

Six verification monitoring events were then conducted from the second quarter of 2020 through the third quarter of 2021. MtBE rebound was only observed in wells MW-3 and MW-11. The most recent (third quarter of 2021) MtBE concentrations in these wells were 208 µg/L and 11,400 µg/L, respectively.

Central Valley Water Board staff have reviewed the case for closure. The closest surface water bodies were too distant to be impacted by residual contamination at the Site. The Site is connected to a public water supply. The Discharger has defined the extent of remaining pollution, which is within a stable and degrading groundwater plume. No further action is warranted for the Site if it continues to operate as a commercial/industrial property. Staff closed the case on 10 October 2022.

## **SITE CLEANUP PROGRAM**

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

### **SACRAMENTO**

#### **EAST SIDE MOSQUITO ABATEMENT DISTRICT, 2000 SANTA FE AVENUE, MODESTO, STANISLAUS COUNTY**

The district began using the Site for aerial pesticide applications in the 1960's. During a 1985 Site inspection, staff documented that the district washed airplanes and the water with pesticide residue drained into a nearby retention pond. Surface water and soil samples contained pesticides. By 2011, the district upgraded the wash pad system to contain wash water and not discharge it. In March 2022, staff received an inventory of current chemical use and documentation that discharges stopped by 2011. Based on the soil and surface water concentrations of pesticides in 1985 and the current Site conditions, Central Valley Water Board staff recommended closing the Site Cleanup Program case. Following the public notification activities, Central Valley Water Board staff closed the case on 18 October 2022. (MWM)

#### **WILLIAMS TANK LINES, 38634 STATE HIGHWAY 20, NEVADA CITY, NEVADA COUNTY**

On 31 January 2018, a vehicle accident involving a William's Tank Lines tanker truck resulted in the release of approximately 8,400 gallons of unleaded gasoline onto the soil and drainage ditch adjacent to 38634 State Highway 20. Much of the gasoline was consumed by a fire caused by the accident. The release resulted in soil and groundwater to be impacted by total petroleum hydrocarbons as gasoline and diesel, benzene, toluene, ethylbenzene, and total xylenes. Contaminated soil was excavated from the spill impacted area and backfilled and the adjacent highway drainage ditch flushed with water. Groundwater was found to be impacted by benzene contamination in a limited area within the drainage ditch. Groundwater sampling has demonstrated that benzene concentrations are generally decreasing with residual concentrations expected to rapidly attenuate below the Maximum Concentration Level. A No Further Action letter was issued on 3 October 2022.

## **REDDING**

### **WESTWOOD ASTS, CASE #SLT5R981, LASSEN COUNTY**

The Site is a vacant property owned by Toms Sierra Company, Inc. (Discharger). Previous owners operated a bulk fuel storage and distribution facility at the Site from before 1993 until 2005 when the above-ground storage tanks (ASTs) and appurtenances were removed.

During a February 2003 investigation of a release at the adjacent Pacific Gas and Electric substation, the California Department of Toxic Substances Control (DTSC) observed visible petroleum at the Site. Four ASTs ranging from approximately 10,000 gallons to 25,000 gallons capacity were present near the western property boundary. Three of the ASTs were marked “Dye Diesel”, “Dye Kerosene”, and “Regular Gasoline”. The fourth AST was unmarked. Buildings included an office, a warehouse/loading rack, and shed. The fuel tanks and appurtenances lacked secondary containment. Pooled liquid petroleum and the smell of petroleum in soil was apparent. Later in 2003, DTSC notified Central Valley Water Board staff of the release. On 15 August 2003, Board staff inspected the facility and confirmed the presence of the ASTs.

Toms Sierra Company, Inc. acquired the Site in 2005, after the ASTs, piping, and buildings were removed. Between 2005 and 2013, no assessment or remediation occurred. On 14 August 2013, staff issued a request for a site investigation.

In November 2014, the Discharger performed a limited Phase II Environmental Site Assessment (ESA), collecting soil samples from six exploratory test pits from the former locations of the ASTs and the loading rack. Analytical results indicated elevated levels of petroleum hydrocarbons in Site soils.

In November 2015, the Discharger performed a soil removal from a 20-foot by 25-foot area to a maximum depth of twelve feet below ground surface (bgs). Approximately 162.3 tons of contaminated soil was removed containing an estimated 278 pounds of gasoline range hydrocarbons and 2,592 pounds of diesel range hydrocarbons. Excavated soils were transported to an offsite facility for disposal.

In September 2017, three monitoring wells (MW-1 through MW-3) were installed at the Site to characterize the nature and extent of impacts of petroleum to groundwater. A fourth well (MW-4) was added in September 2020 to delineate the downgradient extent of affected groundwater. Laboratory analytical results reported elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-GRO), diesel (TPH-DRO), benzene, toluene, naphthalene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE) in the first three monitoring wells. Groundwater monitoring and sampling continued a quarterly basis between October 2017 and May 2021. Monitoring results indicated reduction of all constituents. Staff issued a Public Notice of Review for No Further Action on 7 March 2022. No public comments were received. The Discharger decommissioned the monitoring wells on 18 August 2022, and on 21 September 2022. Staff closed the case.



# STAFF RECOGNITION

## SUPERIOR ACCOMPLISHMENT AWARDS

At the 14 October 2022 Board Meeting, Executive Officer Pulupa presented a Superior Accomplishment Award to the following staff:

**EMPLOYEE: CHAD NEPTUNE**

**UNIT: SITE CLEANUP**

**LOCATION: FRESNO OFFICE**

**TITLE: ENGINEERING GEOLOGIST**

**SUPERVISOR: WARREN GROSS, SENIOR ENGINEERING GEOLOGIST**

Chad is an Engineering Geologist in the Central Valley Water Board's Fresno Office as part of the Site Cleanup Unit. Chad is being recognized for his outstanding work performance on facility inspections and facility document reviews/responses. Chad joined the Central Valley Water Board Site Cleanup Unit in 2019 and has applied his past consulting experience and technical skills to effectively regulate and bring into compliance the facilities he oversees.

Chad has been a consistent performer in the Site Cleanup Unit, providing insightful data interpretations from complex data sets while proving outstanding responsiveness by responding in a timely manner. During this quarter, Chad produced 21 deliverables, including: Two responses to requests for exemptions from PFAS workplans, explaining why the standard for exemption had not been met; two groundwater reviews for data rich cases; comments on two groundwater assessment workplans, a No Further Action Consideration letter (including outside agency consultation) for a case with atypical (radiological) constituents of concern, and two responses for contentious issues at our Old Hammer Field Groundwater cleanup site.

Chad also serves on the Water Board's Disability Advisory Committee and has recently assumed additional responsibility for oversight of the On-site Waste Treatment System Program for Region 5.

Chad is a valuable asset of the Site Cleanup Unit. In addition to his excellent attitude and professional demeanor, Chad willingly and enthusiastically works on any project he is given. He can quickly complete investigations, reviews, and write ups, and as a result completes a large volume of work. Chad carries with him a level of professionalism and dedication that well represents the Central Valley Water Board. I am recommending that Chad receive this award.

## EMPLOYEE RECOGNITION AWARDS OCTOBER 2022 THROUGH NOVEMBER 2022

At the August 2022 All Staff Meeting in the Redding office, Assistant Executive Officer Clint Snyder presented the following Employee Recognition Award:

**EMPLOYEE: MARISSA BOSENKO**  
**UNIT: CANNABIS**  
**LOCATION: REDDING OFFICE**  
**TITLE: ASSISTANT GOVERNMENT PROGRAM ANALYST**  
**SUPERVISOR: JASON SCHROEDER, SENIOR ENGINEERING GEOLOGIST**

Marissa started as Associate Governmental Program Analyst (AGPA) in the Cannabis Program in July 2021 after working in our administrative unit. 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. She 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.

At the September 2022 All Staff Meeting in the Redding office, Assistant Executive Officer Clint Snyder presented the following Employee Recognition Award:

**EMPLOYEE: JUSTIN LANIER**  
**UNIT: FOREST PRACTICE UNIT**  
**LOCATION: REDDING OFFICE**  
**TITLE: ENGINEERING GEOLOGIST**  
**SUPERVISOR: MATHEW BOONE, SENIOR ENVIRONMENTAL SCIENTIST**

Justin is receiving this award for all his hard work in the Forest Practice Unit. Justin started with the Central Valley Water Board in May of 2016 and has been a strong asset to the team from the beginning. Justin has a great technical background coming from CH2M Hill (Jacobs Engineering Group) and he has been able to apply that to his current position. Justin has been a key player over the last 6 years and has brought a tremendous amount of expertise and dedication to not just the Forest Practice Unit but to the entire office.

Justin currently oversees and regulates most of the private timber operations within Butte and Tehama County. This accounts for just under 200 active Emergency fire

salvage projects ranging from 20 acres to several thousand acres and almost 50 Timber Harvest Plans, both green tree and substantially damaged from recent fire which range from a couple hundred acres in size to many thousands of acres.

In addition to managing that extensive workload, Justin also participates in the Effectiveness Monitoring Committee (EMC). The EMC was formed by the Board of Forestry in 2014 for the purpose to assess the efficacy of the Forest Practice Rules. The Committee is made up of academia, industry, state agencies, consulting firms, and non-profit agencies and as mentioned to evaluate and assess the efficacy of the Forest Practice Rules as well as other related laws and regulations. Additionally, this committee is also designed to meet the resource objectives and ecological performance measures related to AB 1492. This has been a great committee not only for Justin to be a part of but also, he has done very well at representing the Central Valley Regional Water Boards Redding office.

This last fiscal year Justin completed close to 30 field inspections with 2 resulting in NOV's and 13267 order for several dischargers, which ultimately led to bringing the dischargers back into compliance with management measure implementation and site cleanup and eventually 100% compliance with our General Order. Without remediation, the sites would have unraveled, discharging many hundreds of cubic yards of sediment into the headwaters of several forested watersheds already in recovery from recent forest fires.

Throughout Justin's time at the Central Valley Water Board, Justin has always been willing to take on new tasks and go above and beyond his normal duties. Justin has a great work ethic and continues to use his analytical and technical background to produce a great work product as well as strong presence out in the field. Justin is respected by his peers as well as the dischargers that he regulates. Justin is a valuable member of the Forest Practice Unit and this office and is very deserving of this award.

At the October 2022 All Staff Meeting in the Redding office, Assistant Executive Officer Clint Snyder presented the following Employee Recognition Award:

**EMPLOYEE: ERIN JONASSON**  
**UNIT: NPDES UNIT**  
**LOCATION: REDDING OFFICE**  
**TITLE: SCIENTIFIC AID**  
**SUPERVISOR: STACY GOTHAM, SENIOR WATER RESOURCES CONTROL ENGINEER**

Erin is receiving the October 2022 Employee Recognition Award for her outstanding contributions to the Redding NPDES Unit. Erin joined the Central Valley Water Board in April 2022 and quickly became an integral member of the Unit where she supports staff in review of monitoring reports, analytical methods report, and mid-permit reviews. She also assists staff with entry of violations in CIWQS and she compiles records of violations for use in formal enforcement actions. During the past six months, she has provided the support needed by staff to significantly reduce our monitoring report

backlog and enter violation data into CIWQS. She recently supported the development of three particularly complex Notices of Violations; where she reviewed and compiled violation data and helped catch up on addressing a number of mandatory minimum penalties.

Erin has a creative mindset; she is a natural problem solver and independently initiates and executes ideas to address the needs of the NPDES Unit. Soon after Erin started working for the Water Board, she was tasked with supporting staff with Analytical Method Report reviews. The Reports contain laboratory method data related to approximately two-hundred pollutants of concern. The Reports must be reviewed to assess compliance with reporting requirements, EPA's Sufficiently Sensitive Test Methods Rule, and whether appropriate lab methods are being proposed by the Discharger for wastewater analyses. Erin created a tool to help Staff review these reports more efficiently, and through use of this tool she has identified instances of insufficient reporting levels and inappropriate laboratory methods for analyses. She then developed a template Review Response Letter that communicates the information needed from the Dischargers for the reports to be approved. The Analytical Method Review Tool supports an objective identified in the Central Valley Water Board Strategic Plan related to "collecting information that is meaningful and actionable." Erin's work on creating the Review Tool will undoubtedly lead to more reliable and actionable water quality data.

Erin is a fun, positive person to collaborate with and her natural curiosity is infectious. The energy and proficiency she brings to each task she tackles is superb and admirable. The Central Valley Water Board is fortunate to have Erin within its ranks.

At the 17 October 2022 All Staff Meeting in the Rancho Cordova office, Executive Officer Patrick Pulupa presented the following Employee Recognition Award:

**EMPLOYEE: SHAWN AGARWAL**  
**UNIT: 401 WATER QUALITY CERTIFICATION AND DREDGING UNIT**  
**LOCATION: RANCHO CORDOVA OFFICE**  
**TITLE: ENVIRONMENTAL SCIENTIST**  
**SUPERVISOR: STEPHANIE TADLOCK, SENIOR ENVIRONMENTAL SCIENTIST**

Shawn is an Environmental Scientist in the Water Quality Certification and Dredging Unit. Shawn has been with the Waterboards since September 2021. His position is the Caltrans Liaison for all of Region 5, managing all Caltrans projects for the Fresno, Rancho Cordova, and Redding Offices. This position allows consistent coordination with Caltrans through one person who can get to know each Caltrans district and provide a way to be able to work collaboratively in an efficient and timely manner. He is a responsive communicator and coordinator between all three offices, working closely with all three 401 supervisors. Though he works on projects from all three offices, he remains efficient in submitting draft certifications and documents in a timely manner, often well in advance of deadlines determined by the Army Corps of Engineers through the USEPA 401 Rule or management. After only one year in

the position, he regularly submits 5-7 drafts for review per week, sometimes more, to meet his increased workload based on seasonal permitting needs of Caltrans throughout the region.

Shawn exhibits a high level of organization, provides excellent and responsive communication both within and outside of our region, and is willing to assist in solving problems and finding answers in a fast and efficient manner. He has been extremely eager to establish the 401 Unit presence during site visits and remains consistently efficient with his high workload. His knowledge and willingness to go above and beyond makes him valued staff within the 401 Unit and the Regional Board. For this and many other reasons, he is well deserving of the Employee Recognition Award.

**EMPLOYEE: BILL BRATTAIN**

**UNIT: SITE CLEANUP PROGRAM – PRIVATE SITES CLEANUP**

**LOCATION: RANCHO CORDOVA OFFICE**

**TITLE: WATER RESOURCES CONTROL ENGINEER**

**SUPERVISOR: KRISTI SHELTON, SENIOR WATER RESOURCES CONTROL ENGINEER**

Bill Brattain is a Water Resources Control Engineer in the Site Cleanup Program Private Sites Cleanup Unit. Bill oversees cleanup activities at numerous sites including small dry cleaners and industrial sites that range in size from former small mom and pop businesses to large industrial facilities. Bill is an integral part of the unit and frequently takes on important high-profile projects.

Due to a couple recent staff vacancies in the Unit, Bill took on oversight of numerous new projects in various stages of remediation and closure while continuing to keep his existing case load moving forward. Bill was able to keep each of the new cases moving towards remediation and closure. Bill completed reviews of several large reports for these projects and was able to keep them moving forward while we work to fill the unit vacancy. Bill keeps frequent contact with multiple stakeholders and provides updates to management on project status. He has several projects with Site Cleanup Subaccount Program (SCAP) funding and projects requiring formal enforcement action which require additional time to oversee. Bill successfully oversees large projects with substantial stakeholder engagement and managing a variety of interests.

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

**EMPLOYEE: HELEN YU**

**UNIT: STORAGE TANKS**

**LOCATION: RANCHO CORDOVA OFFICE**

**TITLE: SENIOR, WATER RESOURCES CONTROL ENGINEER (SPECIALIST)**

**SUPERVISOR: STEVEN MEEKS, SUPERVISING WATER RESOURCES CONTROL ENGINEER**

Dr. Helen Yu is a Senior Water Resource Control Engineer Specialist in our Storage Tanks Section and primarily works on the Central Valley Waterboard's site cleanup project backlog and growing list of emerging contaminants. Dr. Yu previously worked for the San Diego Regional Water Board office for over 15 years before joining the Rancho Cordova Central Valley Water Board office in January 2022. While at Region 9, she proved to be an exceptional staff resource by overseeing many municipality stormwater management activities and providing invaluable technical input on many technical advisories and regulatory guidance documents for the Region. As a new Senior WRCE Specialist, she continues to provide these exceptional skills and service to Region 5.

Dr. Yu shows an exceptional ability to deal with and take on the lead role for our Regional Board's emergent contaminant issues, particularly those involving PFAS. She confidently leads our monthly technical PFAS group meetings and is the PFAS liaison person between State Board and Region 5. As an example of her ability to take on a lead role position, on her first day at Region 5, she immediately reached out and introduced herself to Wendy Linck who is the technical staff lead for the PFAS investigation efforts at State Board. She quickly established a great working relationship with Wendy and now regularly exchanges new PFAS information with her and then disseminates that information to our PFAS group. Furthermore, as our Region's technical staff lead for PFAS, she maintains regular contact with our colleagues at OEHHA and the US EPA Region 9 offices for updates regarding all new and/or proposed PFAS health screening values to ensure that everyone is up to date on the latest PFAS information.

She provides valuable input on complex PFAS project investigations and potential cleanups at sites such as airports, metal plating facilities and bulk fuel plants. Furthermore, she does not hesitate to assist and mentor staff and managers on sites with complex PFAS issues. As an example of her ability to assist with and provide input on complex PFAS cases, she assisted and mentored staff by helping them review several work plans from bulk fuel plants that were required by the State Board's PFAS Investigative Order issued in 2020. Many of the work plans did not provide all the information required by the Order. Dr. Yu was instrumental in ensuring that all the work plans will now meet the appropriate level of work required by the Order.

As a valuable member of Region 5, Dr. Yu consistently provides high quality work, excellent technical assistance and mentoring of staff, and is very responsive and respectful to her managers, co-workers, regulated community and the public. For all these reasons and much more, Dr. Yu is well-deserving of this Employee Recognition Award.

## ENFORCEMENT

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

### ORDERS AND COMPLAINTS ISSUED OR ADOPTED

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

**Enforcement Table 1 – Central Valley Enforcement Orders  
1 September 2022 through 31 October 2022**

Action Date	Agency	County	Notes
9/28/2022	Mountain House CSD	San Joaquin	ACL R5-2022-0508 in the amount of \$36,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
9/8/2022	City of Rio Vista	Solano	ACL R5-2022-0504 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
9/8/2022	SPX Marley Cooling Technologies Inc.	San Joaquin	ACL R5-2022-0509 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
9/28/2022	City of Rio Vista	Solano	ACL R5-2022-0503 in the amount of \$63,000 addresses MMPs for effluent limit violations. The penalty will be suspended if the

Action Date	Agency	County	Notes
			Discharger spends an equivalent amount towards the completion of a Compliance Project and the ACL penalty shall be suspended. The objective of the project is to avoid impacts to the biological treatment system at the Beach Wastewater Treatment Facility (Facility) caused by influent with abnormal characteristics (e.g., atypical pH, cleaning agents, petroleum-related discharges) and which result in Facility upsets and discharges of partially treated effluent to the Sacramento River. The project will provide early detection of influent with pH characteristics outside the operating parameters and provide capability to divert such influent before it reaches the biological treatment system.
9/28/2022	City of Colusa	Colusa	Stipulation of Entry of ACL Order (Stipulated Order) R5-2022-0505 in the amount of \$132,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 December 2020 and 28 February 2022. A portion of the penalty in the amount of \$33,134 has been satisfied through the completion of the compliance project described in ACLO R5-2021-0500. The remaining penalty amount of \$98,865 shall be spent towards the completion of the Compliance Project described in Stipulated Order R5-2022-0505. The objective of the City of Colusa Wastewater Treatment Plant Ultraviolet (UV) System Modifications and Optimization 2022 Project is to reduce effluent total coliform and ensure future compliance with effluent limitations for total coliform. The project consists of upgrading the tertiary filter controls and lining the UV channels with stainless steel liners.

**ENFORCEMENT UPDATE**

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 September 2022 through 31 October 2022. From a statewide perspective, Region 5 is responsible for 11% of the enforcement actions tracked in



CIWQS during this period including 24% of all NOV's, 18% of all ACL, and 31% of all VER.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS  
1 September 2022 through 31 October 2022**

Region	13267	NNC	ACL	CAO	EPL	NOV	SEL	TSO	UNK	VER	Total
1	0	42	3	3	0	17	0	0	0	0	65
2	0	0	10	0	0	0	1	0	0	0	11
3	0	0	1	0	1	11	0	1	1	0	15
4	1	49	8	0	2	97	0	1	0	8	166
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 R5	0	44	5	0	0	45	2	0	0	9	105
6T	0	0	0	0	0	3	3	0	0	0	6
6V	0	0	0	0	0	1	1	0	0	1	3
7	0	9	0	0	0	0	0	0	0	0	9
8	0	559	0	0	1	7	6	0	1	11	585
9	0	0	1	1	0	8	1	0	0	0	11
<b>Total</b>	<b>1</b>	<b>703</b>	<b>28</b>	<b>4</b>	<b>4</b>	<b>189</b>	<b>14</b>	<b>2</b>	<b>2</b>	<b>29</b>	<b>976</b>

### CV SALTS ENFORCEMENT

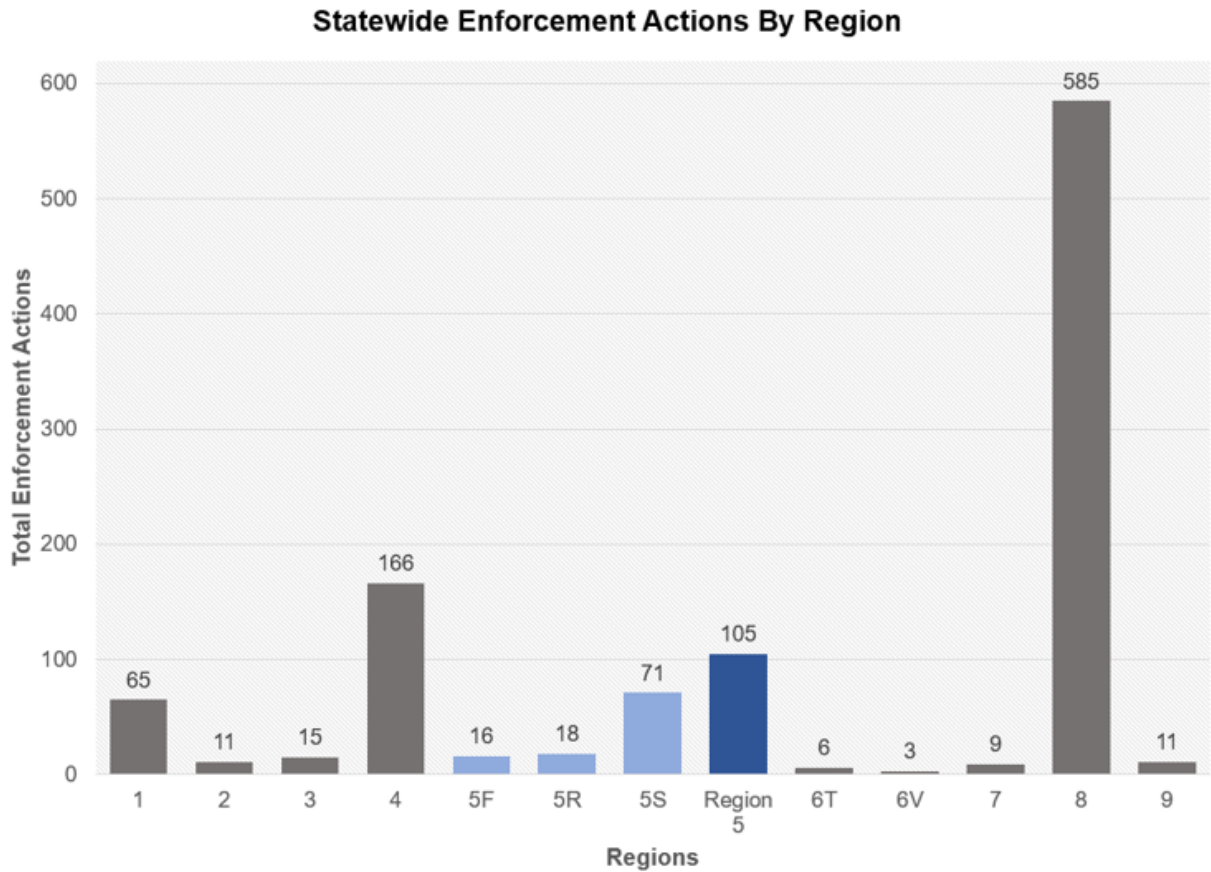
CV SALTs enrollment has entered a new phase. The WDR Compliance and Enforcement team in Rancho Cordova was provided a list of non-enrolled participants for the nitrate control program by the CV SALTs unit. The list includes Dischargers in the areas identified as priority one zones within the Southern San Joaquin Valley. Our list includes Wastewater Treatment Facilities, Food Processors, Wineries, Composters among others. The Compliance and Enforcement staff are engaged in outreach to these Dischargers. All 52 Dischargers on the list have been contacted, by phone as well as email. We have received multiple questions regarding the program, and as a result provided answers and guidance for enrollment. At this point in time, 12 Dischargers (23 percent) have successfully filed their NOI to participate in the program. Additional outreach is ongoing with the understanding that enforcement will occur swiftly if outreach efforts fail.

### ACTIONS:

#### ENFORCEMENT ACTIONS AND ABBREVIATIONS

- VER - Verbal Communication
- SEL - Staff Enforcement Letter
- NOV - Notice of Violation
- NNC - Notice of Non-Compliance

- 13267 - Water Code Section 13267 Investigation Order
- TSO - Time Schedule Order
- CAO - Cleanup and Abatement Order
- CDO - Cease and Desist Action
- EPL - Expedited Payment Letter
- ACL - Administrative Civil Liability
- NTC - Notice to Comply



**Enforcement Figure 1: Enforcement Actions – Statewide Enforcement Actions Recorded in CIWQS 1 September 2022 through 31 October 2022**

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker  
1 September 2022 through 31 October 2022**

Region	13267	Letter – Notice	NOV	Staff Letter	VER	Total
<b>5F</b>	3	1	19	54	1	78
<b>5R</b>	0	0	0	16	1	17
<b>5S</b>	0	365	2	88	3	458
<b>Total</b>	3	366	21	158	5	553

**Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS  
1 September 2022 through 31 October 2022**

Region	Reminder Letter for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	NOVs for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	Total
<b>5F</b>	0	373	<b>373</b>
<b>5S</b>	301	519	<b>820</b>
<b>Total</b>	<b>301</b>	<b>892</b>	<b>1,193</b>

Finally, the Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 1 September 2022 through 31 October 2022, a summary of those enforcement actions is included in Table 4, below.

**Enforcement Table 5 – REGION 5 ILRP ENFORCEMENT ACTIONS  
1 September 2022 through 31 October 2022**

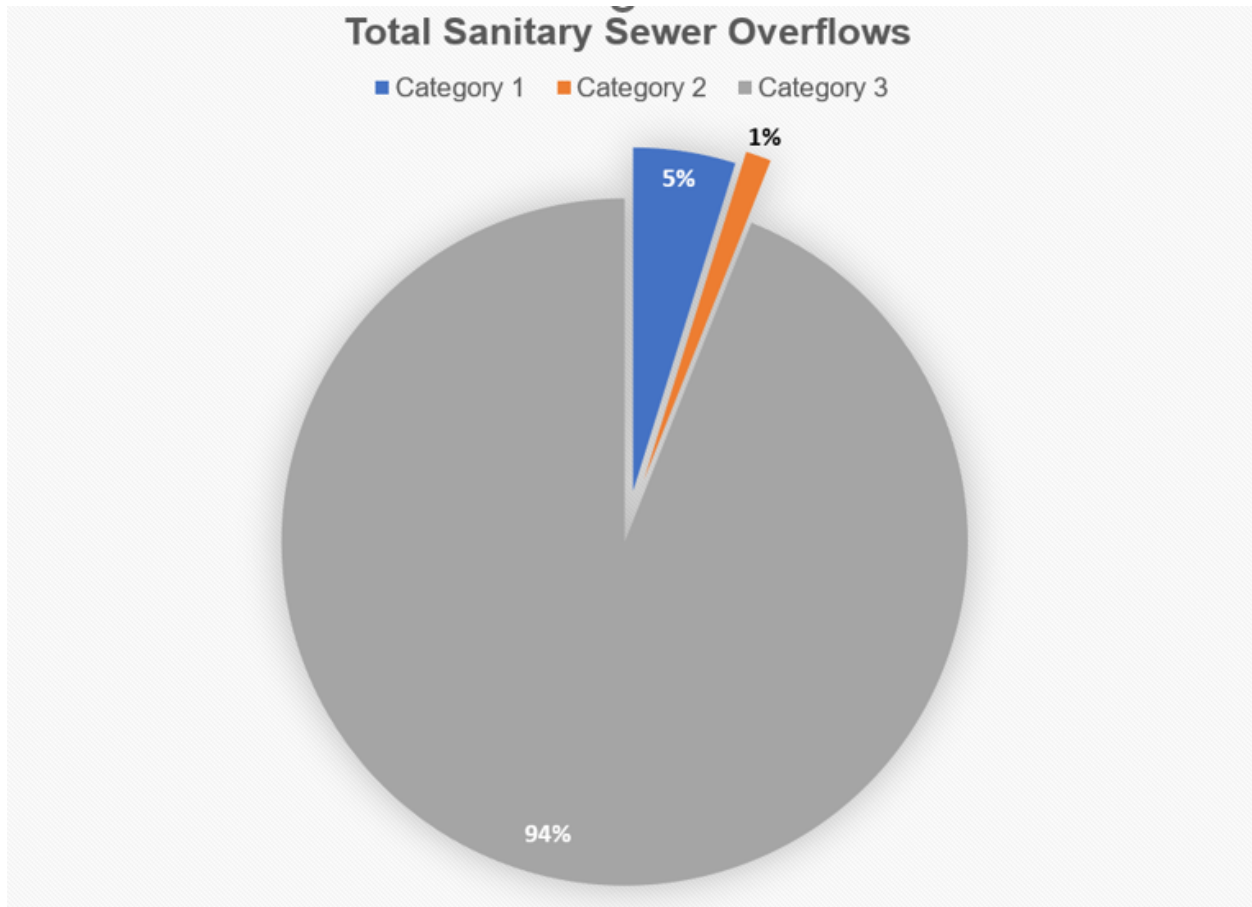
Region	Reminder Letter for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Submit Annual Reports	Total
<b>5F</b>	0	9	0	9
<b>5S</b>	325	0	59	384
<b>Total</b>	<b>325</b>	<b>9</b>	<b>59</b>	<b>393</b>

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

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

any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 September 2022 through 31 October 2022, there was no reported SSO incident in which 50,000 gallons or greater spilled reached surface water.

## SSO SUMMARY DATA



**Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary  
1 September 2022 through 31 October 2022**

For the reporting period between 1 September 2022 through 31 October 2022, there were 83 total SSO spills: 6 Category 1, 4 Category 2, and 73 Category 3 spills.

## ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOs including the current Monitoring and Reporting Program (MRP) can be found at the [State Water Board's Sanitary Overflow Reduction Program](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html)

([https://www.waterboards.ca.gov/water\\_issues/programs/sso/index.html](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html)).

Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS

database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

## **COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS**

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 September 2022 through 31 October 2022, Central Valley Water Board staff have received a total of 34 complaints from phone calls, emails, and from the CalEPA Complaint database. To date, 32 (94%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining two complaints remain ongoing.

### [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/)

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

## **ADMINISTRATIVE CIVIL LIABILITY**

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

### **COMPLIANCE PROJECT (CP)**

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

### **SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)**

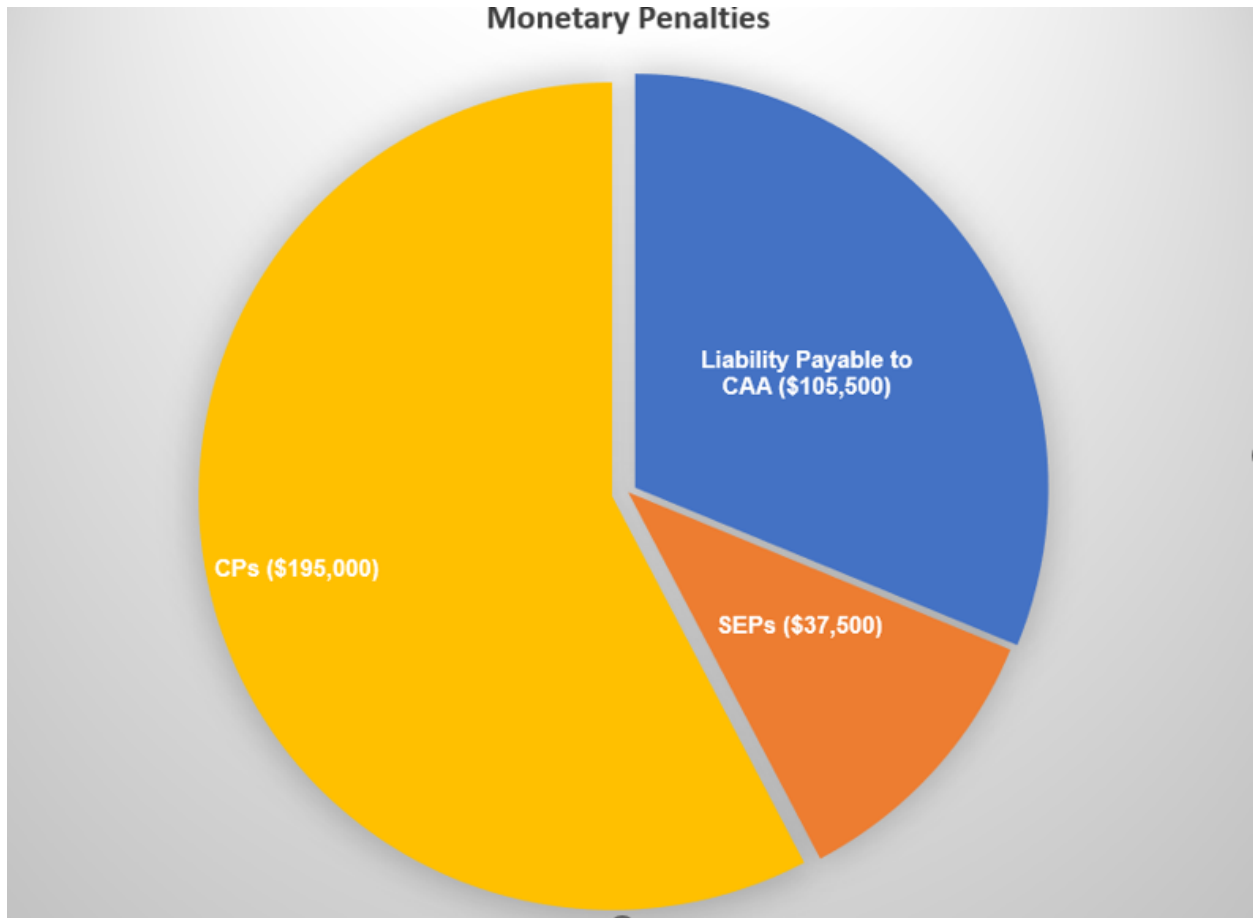
A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required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

### **ENHANCED COMPLIANCE ACTION (ECA)**

ECAs are projects that enable a discharger to make capital or operational improvements beyond those required by law and are separate from projects designed to merely bring a discharger into compliance. The Water Boards may approve a settlement

with a discharger that includes suspension of a portion of the monetary liability of an ACL for completion of an ECA.

For the fiscal year period between 1 July 2022 through 31 October 2022, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$338,000 in monetary penalties (Liability payable to CAA, CP, and SEP) were issued during this period, of which \$195,00 was allocated for CP and \$37,500 was allocated for SEP (see Enforcement Figure 3 below).



**Enforcement Figure 3: Region 5 – Sum of Total Monetary Penalties Issued during Fiscal Year 1 July 2022 through 31 October 2022**

## PERFORMANCE TARGETS

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

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

([https://www.waterboards.ca.gov/about\\_us/docs/resource\\_alignment\\_report.pdf](https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf))

and was used to develop the FY 20XX-20XX performance targets. Below is the Central Valley Water Board's Performance Measurement Summary for the 20XX-20XX fiscal year.

**ENFORCEMENT TABLES 6a-6e - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY FOR FY 22/23 (1 JULY 2022 THROUGH 31 OCTOBER 2022)**

**Table 6a – NPDES Wastewater**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	19	5	26%	NA	5
Minor Facilities Inspected	11	0	0%	NA	0

**Table 6b – NPDES Storm Water**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	177	48%	NA	183
Stormwater Industrial Inspections	195	88	46%	NA	90
Stormwater Municipal Inspections	0	18	NA	NA	21

**Table 6c – Waste Discharge to Land Wastewater**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	111	55	51%	NA	57

**Table 6d – Land Disposal**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Landfill Inspections	99	23	30%	NA	30
All Other Inspections	20	11	55%	NA	11

**Table 6e – Other Programs**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Forest Activities Inspections	270	100	40%	NA	108
Confined Animal Facility Inspections	275	32	17%	NA	32



**ENFORCEMENT TABLE 7 – REGION 5 CLEANUP ACTION SUMMARY  
1 JULY 2022 THORUGH 31 OCTOBER 2022**

**Table 7 – Clean Up**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
New DoD Sites into Active Remediation	5	0	0%	NA	NA
New SCP Sites into Active Remediation	19	4	21%	NA	NA
Cleanup Program Sites Closed	36	9	25%	NA	NA
New UST Sites into Active Remediation	16	7	44%	NA	NA
Underground Storage Tank Sites Closed	45	13	29%	NA	NA

**DELTA ACTIVITIES**

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](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/) here:

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

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

Board staff attended Delta RMP meetings and reviewed documents to provide support for program implementation. Board staff reviewed the revised 2022-23 Quality Assurance Program Plan (QAPP), submitted on 25 October 2022. Monitoring for FY22/23 cannot begin until there is an approved QAPP. Since additional revisions were required, Board staff coordinated with State Water Board staff to develop a time limited conditional approval for the revised QAPP to allow for initial monitoring of pesticides to capture the first storm flush event, a critical element of the study design. The Delta RMP was permitted to begin monitoring provided a revised version of the QAPP was provided to the Board and approved by 18 November 2022.

The Delta RMP developed the first programmatic Data Management Plan (DM Plan) per Board Resolution R5-2021-0054. Board staff participated on the Data Management Plan Advisory Committee to develop the initial draft plan and to provide guidance and feedback on draft versions of the DM Plan. On 3 October 2022, the DM Plan was submitted to the Board. State Water Board and Regional Water Board staff and management agreed that the DM Plan required revisions to be consistent with Board Resolution R5-2021-0054. Board staff, management, and Executives continued to work with the Program Manager and Board of Directors to better align the revised draft Data Management Plan with Board Resolution R5-2021-0054 requirements. A revised DM Plan is expected to be submitted to the Board in mid-February 2023.

Board staff also coordinated with State Water Board staff and met with the Delta RMP Program Manager on 4 November 2022 to discuss how current qualified program data are managed. There was agreement that the program would benefit from developing criteria for vetting analytical labs that are not accredited for newly developed method analysis for emerging contaminants.

Board staff attended several Technical Advisory Committee (TAC) meetings to discuss monitoring results and future monitoring activities for contaminants of emerging concern (CEC), pesticides and toxicity, harmful algal blooms, and nutrients.

Board staff coordinated with the Delta RMP program manager to draft a summary report following the Delta RMP Nutrient Symposium on 27 September 2022. The purpose is to inform Delta RMP participants on recent nutrient studies and activities in the Delta and the Nutrient Symposium focused on identification of data and knowledge gaps. A follow-up discussion amongst Delta RMP Steering Committee members and the Nutrient TAC members was held as a second day of the Nutrient Symposium on 30 November 2022. The focus was to discuss management questions of the most importance to the Delta RMP participants and to begin development of a long-term, multi-year monitoring plan for nutrients and harmful algal blooms.

## **DELTA NUTRIENT RESEARCH PLAN**

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for determining need and potential scope of water quality objectives for nutrients in the Delta. Board staff are working to fill the information gaps.

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

- Board staff organized and participated in a public workshop hosted by the Delta Science Program on 8-9 November 2022. The focus of the workshop is creation of a collaborative monitoring strategy for harmful cyanobacteria blooms in the Delta. The workshop will be followed by publication of a harmful algal bloom monitoring strategy, expected in spring 2023.
- Board staff continued project reporting and data management and for a Proposition 1 funded project monitoring harmful cyanobacteria toxins in water and benthic organisms at ten locations in the Delta.
- Board staff completed data collection for collaborative project in Stockton with partners including the Port of Stockton, the City of Stockton, Restore the Delta, and Robertson Bryan Inc. The project monitors nutrients, cyanotoxins, dissolved oxygen, and temperature at the Stockton waterfront and Stockton deep water ship channel.
- Board staff provided an update of information needs to the Delta Regional Monitoring Program Nutrient technical advisory committee to support the development of a long-term monitoring plan (see also Delta RMP section above).

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

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. The water quality

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

From 9 September through 19 October 2022, there were multiple stretches of excursions below the water quality objective. The Port of Stockton initiated the aerators, only to experience technical issues. One pump was working and the other ran for a short time, shutting down on 12 September for technical issues. The pump will need to be removed and repaired. Currently, there is no estimated timeframe for the pumps coming back on-line. However, from 19 October through 7 November 2022, the dissolved oxygen levels did not exceed the water quality objective.

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

## **TMDL BASIN PLANNING**

### **PESTICIDE BASIN PLANNING/TMDLS**

#### **CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL**

On 8 June 2017, the Board adopted a Basin Plan Amendment (BPA) which established a Control Program for Pyrethroid Pesticide Discharges throughout the Sacramento and San Joaquin River Basins, as well as Total Maximum Daily Loads (TMDLs) for pyrethroid pesticides in certain impaired water bodies. The State Water Board approved the BPA on 10 July 2018. The Office of Administrative Law (OAL) approved the BPA on 19 February 2019. On 22 April 2019, USEPA approved the BPA. The BPA, including the 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 California 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 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. Three of the five Phase I MS4 permittees reported exceedances of the prohibition triggers. One of these permittees is already implementing the required PMP, while the other two will submit their PMPs by late 2022.

Six Phase II MS4 permittees selected the baseline monitoring option and received subsequent approval of their Baseline Monitoring. The Baseline Monitoring Plan for four Lake County Phase II co-permittees was approved by on 6 October 2022; therefore, the Lake County Phase II co-permittees will initiate baseline monitoring 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. The Cities of Redding and Chico submitted their Baseline Monitoring Reports in September 2022, and Board staff continue to work with the Cities on required revisions.

Board staff received notices of intent to submit a PMP from 49 Phase II MS4 permittees. Of those 49 Phase II MS4 permittees, 45 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 10 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, one permittee (City of Madera) submitted and subsequently received approval of its PMP in October. Board staff continue to work with the Phase II MS4 permittees whose PMPs require revisions and the Phase II MS4 permittees 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_project_s/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html) at:

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

## **CLEAR LAKE NUTRIENT TMDL**

Board staff began initiating the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and projects in the watershed, including the Board's Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Implementation of the existing TMDL will continue. Board staff attended the monthly Blue Ribbon Committee Technical Subcommittee meetings and worked with the community members to review study proposals.

More information can be found on the [Clear Lake Nutrient TMDL website](https://www.waterboards.ca.gov/clearlake/nutrient_tmdl/) at:

([https://www.waterboards.ca.gov/clearlake/nutrient\\_tmdl/](https://www.waterboards.ca.gov/clearlake/nutrient_tmdl/))

## **TRIBAL BENEFICIAL USES DESIGNATION**

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 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. Five comments supporting the BPA was received during the public comment period. On 7 September 2022, the State Water Board approved the proposed BPA. Five comments supporting the BPA were received during the public comment period. 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.

As a commitment to providing government-to-government meetings, Board staff hosted a virtual Tribal Meeting and provided an update on the TBU project on 10 November 2022. The goal of this meeting was to update Tribes and their representatives on project activities and to solicit input from Tribes on the TBU designation effort for Board staff to incorporate into the 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 Tribal 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 for tribes to successfully designate a waterway with a TBU. Both documents are posted on the project’s website (see below).



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 Janae Bonnell is an Environmental Scientist.

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/](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/))

## **BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT**

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

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

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

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

## **SALINITY AND CV SALTS**

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

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 the final Staff Report and Basin Plan Amendment language can be found here:

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

As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities began on 07 May 2021. As of 04 November 2022, Priority 1 Management Zones have collectively reported the following metrics:

**Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 04 November 2022)**

<b>EAP Metric</b>	<b>Total (all MZs)</b>	<b>Turlock/ Modesto</b>	<b>Kings</b>	<b>Kaweah</b>	<b>Tule</b>	<b>Chow-chilla</b>
Initial Estimate of Impacted Wells	~13,000	> 5000	>5000	<1000	<1000	<1000
Inquiries/Interest/calls	6,062	1,671	1,340	1,676	1,291	84
Testing Applications Submitted	2,620	876	1,213	230	258	43
Referred to Other Programs	777	176	418	52	126	5
Eligible Applications	1,804	700	756	178	132	38
Not Yet Responded	259	105	94	34	22	4
Wells Tested/ Scheduled/ Known	1,212	472	464	161	84	31
Above 10 mg/L	780	328	259	144	39	10
Average Percent over 10 mg/L	64%	69%	56%	89%	46%	32%
Households receiving bottled water	814	324	303	128	45	14
Fill Station (FS) Locations	8	0	3	2	2	0
FS Average Gallons per Day	846	0	291	197	358	0
Total Households/ equivalents	1,237	324	449	226	224	14

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:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/nitrate\\_mz/#com\\_fmzp](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/nitrate_mz/#com_fmzp))



Notice to Comply letters for the Salt Control Program were sent out on 5 January 2021. Notice of Intent forms and were due on 15 July 2021. The Prioritization and Optimization (P&O) Study Work Plan was approved by the Central Valley Water Board in March 2021. Recent P&O Study efforts include the development of a baseline salinity characterization report and the selection of modeling tools for surface water and groundwater evaluation.

More information about the [SNCP](#), can be found at:

(<https://www.cvsalinity.org/>)

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

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board meeting to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date.

Board staff continue to work with State Board staff to address questions and concerns that were raised during the 10 July 2018 Board meeting.

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

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

## **OTHER PROJECTS**

### **CV-SALTS IMPLEMENTATION**

On 14 September 2022, Central Valley Water Board staff (Jennifer Fuller) attended a Management Zone Support and Coordination Meeting. Topics included Management Zone updates, outreach, and coordination with the Department of Drinking Water.

On 15 September 2022 Central Valley 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 Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, SAFER funding of co-contaminants in Management Zones, a presentation of the California Rice Commission approved Path A submittal, and updates on the progress of the Prioritization and Optimization (P&O) Study (including Phase 1 of the Baseline Characterization Report, the Data Management System Development, and Analytical Tools/Models identification and evaluation (Delta and Crop Tolerance Tools).

On 28 September 2022 Central Valley Water Board staff (Jennifer Fuller) attended a Chowchilla Management Zone Steering Committee meeting. Topics included updates on the Chowchilla Management Zone well testing, implementation, outreach, and budget.

On 20 October 2022 Central Valley 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 Management Zones' general implementation and outreach progress, Central Valley Water Board enforcement activities, SAFER funding of co-contaminants in Management Zones, an update on the Surveillance and Monitoring Program development, and updates on the progress of the Prioritization and Optimization (P&O) Study (including Phase 1 of the Baseline Characterization Report, the Data Management System Development, Sensitive Beneficial Use Research, Policy Decisions for Salinity Targets, Archetype Selection, and Analytical Tools/Models identification and evaluation.

On 24 October 2022 Central Valley Board executives (Patrick Pulupa, Adam Laputz) and staff (Anne Walters, Jennie Fuller, True Khang, Cindy Au-Yeung, and Hannah Dailey) attended a CV-SALTS Environmental Justice Consortium. Topics included updates on CV-SALTS enforcement and enrollments, an overview of a comment letter for the Final Management Zone Proposals, partnerships between Management Zones and nitrate-impacted public water systems, progress on the integration of ILRP and CV-SALTS data, an update on well testing numbers, and the development of the Management Zone Implementation Plans.

On 26 October 2022 Central Valley Water Board staff (Jennifer Fuller) attended a Chowchilla Management Zone Steering Committee meeting. Topics included updates on the Chowchilla Management Zone well testing, implementation, outreach, budget, and future meetings.

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

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

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

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

SWAMP is also coordinating with local agencies on a study to identify the sources of fecal pollution to the Lower American River. To make the most of limited resources and collect a high-resolution dataset, it was agreed to break the study into multiple phases. Phase 1 of the study was completed in 2020 and targeted the 3-mile reach from Paradise Beach to Sutter's Landing Regional Park. Microbial source tracking (MST) analysis of samples with elevated *E. coli* indicated that birds are the largest and most consistent source of contamination in this section of the river. Dogs are also a source of contamination in some areas, while humans were not a significant or consistent source during the study period. More information is available in the [Phase 1 Data Summary](#)

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

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

## **SUMMER 2022 RECREATIONAL BENEFICIAL USE ASSESSMENTS**

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using *E. coli* as an indicator of fecal pollution. The 2022 monitoring studies included popular recreational spots in the Lower Kings River, Lower Kaweah River, and Upper San Joaquin River. Staff are developing plans for the Summer 2023 assessments. Staff will also conduct a microbial source tracking study next year in the Squirrel and Wolf Creek watersheds in Nevada County.

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

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

## **CYANOBACTERIA BLOOMS UPDATE**

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

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

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

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

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

The purpose of the HABs Portal is to provide readily accessible and easy-to-understand information to the public on the environmental and human health effects from HABs. Resources available include a map showing locations where HABs have been reported, fact sheets on identifying cyanobacteria blooms, and guidance on healthy habits the public can take to protect themselves and their pets from HABs. For health departments and water body managers, the portal includes guidance documents on sampling and posting advisory signs, sign templates, and information on control and treatment options.

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. This process includes interviewing the reporting party, consulting the doctor or veterinarian, conducting follow-up sample collection, and/or analyzing carcasses. Cases that are suspected to be HAB related are reported to the Centers for Disease Control and Prevention (CDC) [One Health Harmful Algal Bloom System](#).

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

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

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

## **WINTER 2022 – CENTRAL VALLEY BLOOMS**

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 cyanobacteria blooms for the period from 1 May to 30 June 2022 is provided in Cyanobacteria Table 1 below.

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 cyanobacteria blooms for the period from 13 September 2022 to 3 November 2022 is provided in Cyanobacteria Table 1.

**Cyanobacteria Table 1. Bloom Summary: (13 September 2022 through 3 November 2022)**

Category	Count
Number of Waterbodies with HAB observations this year <sup>1</sup>	117
Number of locations with active caution advisories <sup>2</sup>	34
Number of locations with active warning advisories <sup>2</sup>	8
Number of locations with active danger advisories <sup>2</sup>	4
Number of Human Illnesses Reported since previous EO Report (under investigation) <sup>3</sup>	5
Number of Animal Impacts Reported since previous EO Report (under investigation) <sup>4</sup>	2

<sup>1</sup>Continuous waterbodies with the same name, such as rivers, are delineated into separate waterbodies by county.

<sup>2</sup>Advisory levels are based on the Freshwater and Harmful Algal Bloom (FHAB) Trigger levels for signage posting. This guidance for planktonic blooms is found [here](#)

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

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

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

The FHAB Program defines an active advisory as one with a confirmed observation within the last 30 days, in this case, all observations since 10/5/2022.

<sup>3</sup>Of the human illnesses reported to the FHAB Program, 1 was reported to the CDC OHAB database and 4 of the investigations are still in progress.

<sup>4</sup>Of the animal impacts reported to the FHAB Program 1 was not reported to the CDC OHAB database and 1 of the investigations is still in progress. Each reported animal impact may include multiple individuals such as in the case of a fish die off.

## FOREST ACTIVITIES PROGRAM

### PROJECTS

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

The Federal NPS Permit development project is targeting activities conducted by the USFS and BLM on federal lands in the region. Activities proposed for coverage under this programmatic permit include vegetation management, road and trail management, post-fire recovery, restoration, and recreation. Until August 2021, staff had been

coordinating permit development activities with the Lahontan Regional Water Board, due to conflicting priorities Region 6 withdrew from the project. The USFS and BLM have prepared documents establishing best management practices to ensure water quality protection during activity implementation, those BMPs will be released for use in Nov/Dec 2021. Tribal consultations were initiated in 2020 and are on-going. A contract to prepare an EIR for the project was executed in 2020 and EIR sections are in development. Permit drafting is on-going as is monthly meetings with the USFS and BLM representatives and biannual executive meetings. Staff expects to bring the proposed permit to the board for consideration in early 2023.

## **GRANTS/CONTRACTS**

### **POST CAMP FIRE DIXIE ROAD SEDIMENT REDUCTION PROJECT (\$775,198)**

The Dixie Road project is for the purpose of implementing forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Currently all NEPA/CEQA permitting has been completed, landowner access agreements were signed, the project went out to bid and a contractor was selected, construction material were purchased, and the project implementation was started on 6 July 2021. Implementation was started but was halted from July 13th until August 24th due to impacts from the Dixie Fire. The project area was not directly impacted by the fire, but it was close to the project area and access to the project area was restricted by Cal Fire. Work resumed on August 25th and construction implementation has been 90% completed. The grantee is currently in the process of collecting final survey data to prepare and complete a final report. (Closing 7/31/2022).

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

### **GENERAL ORDERS**

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders. NPDES Tables below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2022/2023 (16 September 2022 through 31 October 2022) 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
JEN CA 23, LLC, Villa Ticino West Project	<a href="#">R5-2022-0006-004</a>
DeNova Homes, Summer Lakes North Project	<a href="#">R5-2022-0006-006</a>

**NPDES PERMIT Table 2 - CAAP General Order R5-2019-0079**

Facility	County	General Order Permit Number
California Department of Fish and Wildlife, and Merced Irrigation District, Merced River Fish Hatchery	Merced County	<a href="#">R5-2019-0079-0011</a>
California Department of Fish and Wildlife, San Joaquin Fish Hatchery and Salmon Conservation and Research Facility	Fresno County	<a href="#">R5-2019-0079-012</a>

**DAIRIES/CONFINED ANIMAL FACILITIES**

**CONFINED ANIMAL FACILITY INSPECTIONS**

The Confined Animal Facilities Program’s FY 2021/2022 performance target for facility inspections was 275. Staff completed 345 inspections. The performance target for FY 2022/2023 is also 275; Staff anticipates meeting the performance target.

**DAIRY DIGESTERS**

Staff took an active role as Technical Advisory Committee members in the review of several dairy digester project proposals submitted to the California Department of Food and Agriculture (CDFA) under a competitive grant application process. CDFA’s Dairy Digester Research and Development Program (DDRDP) provides financial assistance for the installation of dairy digesters, which will result in reduced greenhouse gas emissions from manure generated on California dairy farms. Financial assistance for the installation of dairy digesters comes from California Climate Investments, a statewide initiative that uses Cap-and-Trade program funds to support the state’s climate goals. CDFA and other state agencies are investing these proceeds in projects that reduce greenhouse gas emissions and provide additional benefits to California communities.



Twenty-seven (27) applications were received and are under review 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 2022 [Dairy Digester Research and Development Program](#) projects is available at

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

## DAIRY POND LINER DESIGN REPORTS

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

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

## DAIRY ENFORCEMENT

The Central Valley Water Board's Prosecution Team reached a <\$00,000> settlement with a <Discharger's Name> dairy that violated waste discharge requirements by dumping dairy wastewater onto cropland last winter. The violations occurred in <Month> of <Year>. Manure slurry and wastewater had been dumped onto a portion of the dairy cropland, inundating the winter crop. The volume of dairy wastewater dumped was later determined to be <000,000> gallons. The <\$00,000> penalty will be deposited into the State Water Board's Cleanup and Abatement Account. That account provides grants for the cleanup and abatement of pollution when no viable responsible parties are available to undertake the cleanup work.

## OIL FIELDS

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 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:

- An Order pursuant to California Water Code sections 13260 and 13267 was issued to an operator in the Mount Poso Oil Field requiring the discharger to obtain waste



discharge requirements and complete quarterly monitoring reports until waste discharge requirements are obtained.

- Staff reviewed two Notice of Intent packages for coverage under General Order One, Waste Discharge Requirements for Oil Field Discharges to Land and General Order Three, Waste Discharge Requirements for Oil Field Discharges to Land for operators in the Midway-Sunset and Deer Creek Oil Fields. Staff found the packages to be incomplete and sent the operators letters requesting additional information.
- Approved two closure work plans for produced wastewater ponds in the Coalinga and Midway-Sunset Oil Fields. Additionally, Staff reviewed four work plans for closure of produced wastewater ponds in the Edison, Midway-Sunset and Mount Poso Oil Fields and found the work plans to be inadequate. Staff sent letters to the operators requesting revised work plans be provided.
- Revised Monitoring and Reporting Program Order No. R5-2017-0036-002 was issued to Central California Oil Company based on the discharger's proposed technical report.
- Revised Monitoring and Reporting Program Order No. R5-2017-0036-003 was issued to Duncan's Pump Service based on the discharger's proposed technical report.
- Individual Notices of Violation were issued to the following:
  - 25 Hills Properties, Inc., regulated under General Order No. R5-2017-0036-019;
  - KB Oil and Gas, Inc., regulated under General Order No. R5-2017-0036-021;
  - Hathaway, LLC, Kern-Tulare Water District, and Jasmin Ranchos Mutual Water Company regulated under Waste Discharge Requirements (WDRs) Order No. R5-2019-0043;
  - Homewood Mountain Partners, LLC regulated under WDRs Order No. R5-2006-0049;
  - Sherwood Hills, LLC, E&B Natural Resources Management Corporation, et al., regulated under WDRs Order No. R5-2019-0024;
  - Cather-Herley Oil Company regulated under WDRs Order No. R5-2004-0057;
  - E&B Natural Resources Management Corporation for inactive and unregulated ponds in the McKittrick Oil Field;
  - Legacy Petroleum LLC regulated under General Order No. R5-2017-0036-0023; and

- Griffin Resources, LLC regulated under WDRs Order No. R5-2002-0108.

These items involve potential ongoing enforcement, and discussions with the operators are ongoing.

During September and October 2022, Staff completed 20 inspections related to oil field facilities. Inspection reports for five facilities were mailed to the respective dischargers. No violations were observed during these inspections. Staff is preparing reports for the remaining inspections which will subsequently be sent to the oil field operators.

A letter was issued to California Resources Corporation that states Notice of Applicability Water Quality Order No. 2003-0003-DWQ-0069 has been terminated per the discharger's request. Staff is also continuing to review monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality.

## **SPILL RESPONSE**

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

A spill of crude oil occurred on the Pan Fee Lease operated by Berry Petroleum Company (BRY), in the Midway Sunset Oil Field on 16 September 2022. According to OES, a mechanical failure at a stock tank caused the discharge of approximately 62 bbls (2,604 gals) of oil into the secondary containment of the source tank. BRY staff told Staff that the discharge was entirely contained within secondary containment structures. No ephemeral stream beds, or waterways received the discharge. BRY staff added that cleanup work was in-progress. BRY staff removed all free-standing oil and all oil-affected materials from the secondary containment area. On 21 September 2022, BRY staff stated that cleanup was complete and provided post-cleanup photographs.

A spill of crude oil and produced wastewater occurred at a facility operated by California Resources Corporation (CRC), in the Yowlumne Oil Field, at the Unit B Facility, on 17 September 2022. According to OES, a leak from a well caused the discharge of approximately 0.5 bbls (21 gals) of crude oil and 569.5 bbls (23,919 gals) of oil field produced wastewater to land affecting a "farm area". On 17 September 2022, CRC staff informed Staff that the source of the discharge is a well located within almond orchards. CRC staff added that all free-standing fluids were removed and, once soil dries, cleanup work will resume to remove oil-affected materials. Staff inspected the spill site on 20 September 2022 and observed the source of the discharge and the areas affected by the spill. The source of the discharge was a failed line on a pumping unit for an underground injection well. The discharge appeared to be within a secondary containment area surrounded by an earthen berm. CRC staff said the discharged fluids were entirely contained within the secondary containment area. CRC staff stated that no fluids from the spill affected the surrounding almond orchards. Staff observed no visual evidence that the discharged fluids affected the surrounding orchards. On

3 October 2022, Staff issued a letter to CRC requiring that all oil-affected soil to be removed from the affected areas and disposed of properly.

A spill of crude oil and produced wastewater occurred on the Vaddar-Rall Lease operated by California Resources Corporation (CRC), in the Mount Poso Oil Field on 18 September 2022. According to OES, a leak on a well caused the discharge of approximately 8 bbls (336 gals) of crude oil and 363 bbls (15,246 gals) of produced wastewater to land. On 18 September 2022, CRC staff stated that the discharge affected pre-disturbed areas including production pads, the side of a hill, and a dirt road. CRC staff added that no waterways or ephemeral stream beds had been affected. On 19 September 2022, CRC staff provided pre-cleanup photographs of the affected areas. On 21 September 2022, Staff inspected the spill site to observe the post-cleanup conditions of the affected areas. CRC staff showed Staff the point of discharge and the areas affected by the spill. CRC staff said the spill affected the elevated production pad where the source well is located, the flank/hillside of the pad, and a dirt road beneath the pad. Staff observed that the affected areas were visually clean except for some spots that contained oil-affected soil along the dirt road and the hillside. CRC staff said that additional cleanup work will be conducted to remove all the remaining waste and affected soil. On 3 October 2022, Staff issued a letter to CRC requiring that all oil-affected soil to be removed from the affected areas and disposed of properly.

A spill of crude oil and produced wastewater occurred on the Section 29 Facility operated by Aera Energy, LLC. (Aera), in the South Belridge Oil Field on 21 September 2022. According to OES, a stuffing box on a well failed causing the discharge of approximately 3 bbls (126 gals) of crude oil and 30 bbls (1,260 gals) of produced wastewater to land. On 22 September 2022, Aera staff stated that the discharge affected a production pad, and no waterways or ephemeral stream beds were affected. On 22 September 2022, Aera staff provided photographs of the affected areas showing oily fluids on flat areas surrounding the source well. On 30 September 2022, Aera staff stated that cleanup of the affected areas was complete and provided post-cleanup photographs.

A spill of crude oil and produced wastewater occurred on the Buena Fe Wilbert Facility operated by Aera, in the Midway Sunset Oil Field on 1 October 2022. According to OES, a gathering line leak caused the discharge of approximately 33 bbls (1,386 gals) of crude oil and 137 bbls (5,754 gals) of produced wastewater into an ephemeral stream bed. On 1 October 2022, Aera staff stated that the discharge originated from a line that belongs to Aera but affected a section of an ephemeral stream bed within a property owned by Chevron USA, Inc. Aera staff stated that cleanup of the affected area was in-progress. On 11 October 2022, Aera staff stated that cleanup of the affected areas was complete and provided post-cleanup photographs. On 20 October 2022, Staff conducted a post-cleanup inspection of the affected areas. Aera staff showed Staff the source of discharge and the affected stream bed. Staff observed that much of the affected section of the stream bed appeared to be visually clean, except for the upstream-most portion of the affected section that has a deep channel with high steep banks (deep portion). The deep portion spans approximately one-quarter of the affected section (0.75-miles). Aera staff said that the deep portion was cleaned by flushing with

fresh water because cleanup crews were not allowed into this portion for worker-safety concerns and to comply with safety guidelines. Staff will follow-up with Aera regarding this incident.

A spill of crude oil and oil field produced wastewater occurred on the Sadie Andrews Lease operated by Bellaire Oil Company (Bellaire), in the Edison Oil Field on 14 October 2022. According to OES, a leak in an underground flow line caused the discharge of approximately 10 bbls (420 gals) of crude oil and produced wastewater to land, affecting a dry sump. On 14 October 2022, Bellaire staff told Staff that the discharge affected a fenced yard and a catchment basin that belongs to the East Niles Utility Storage District. Bellaire staff added that no waterways or ephemeral stream beds have been affected by the spill. Bellaire staff said that the discharge ceased, and cleanup work will be conducted after coordinating with the affected property owner and obtaining necessary dig clearance. On 14 October 2022, Bellaire staff provided pre-cleanup photographs of the affected areas. On 28 October 2022, Bellaire staff notified Staff that cleanup of the affected areas was complete and provided post-cleanup photographs of the affected areas.

An accumulation of what appeared to be crude oil was discovered on a property owned by Kern County, in the Fruitvale Oil Field on 18 October 2022. According to OES, Kern County Public Works Department (KCPWD) construction crews observed crude oil seeping from the ground during excavation of the incident location. The OES report also stated that the excavation was stopped, and no source of the oil was identified. On 18 October 2022, KCPWD staff stated that Stantec Environmental Services (Stantec) was hired by KCPWD to investigate the source of the oil and conduct site remediation. Staff of the Department of Conservation, California Geothermal Energy Management (CalGEM) inspected the incident site and provided Staff with photographs of the affected area. On 27 October 2022, Staff inspected the incident site and observed the affected location. Staff observed a depression in the ground that contained what appeared to be crude oil and debris including chunks of concrete and a large wooden beam. A KCPWD engineer told Staff that the crude oil was discovered underneath an old industrial building that was demolished for redevelopment. The KCPWD engineer added that no pipes were observed, and no active discharge was identified. KCPWD staff stated that Stantec collected a sample to identify the fluid and is working to develop a workplan to identify the fluid source and remediate the site. Staff requested the remediation workplan to be forwarded to the Central Valley Water Board. Staff will follow-up with KCPWD regarding this incident until the waste is cleaned-up and the site is remediated.

A spill of crude oil and oil field produced wastewater originated from the KCLB 32 Lease operated by San Joaquin Facility Management (SJFM), in the Fruitvale Oil Field on 24 October 2022. According to OES, a contractor accidentally struck with a backhoe an underground pipeline causing the discharge of approximately 2 bbls (84 gals) of crude oil and 5 bbls (2,100 gals) of produced wastewater to land. The OES report also stated that the discharge was stopped and contained within a soil berm. On 24 October 2022, staff of Envirotech Consultants, Inc. (Envirotech) stated that the discharge affected the entrance and yard of a chemical plant. Envirotech staff added that no waterways or

ephemeral stream beds had been affected and that cleanup of the affected areas was in-progress. On 27 October 2022, Staff inspected the spill site and observed the source of discharge, the affected areas, and in-progress cleanup work. Staff observed that the spill affected an asphalt covered yard, a catchment basin, and a public road. During the inspection, staff of the cleanup company, Patriot Environmental Service (Patriot) were actively removing a large tree that was affected by the discharge. Patriot staff said that fluids from the spill were removed and Patriot staff pressure-washed the affected areas twice. Patriot staff added that they recovered the washing wastewater using a vacuum truck. Staff observed dark staining on the asphalt within the affected yard, public road, and the affected catchment basin. Staff will follow-up with SJFM regarding this incident.

A spill of crude oil occurred on the Southwest Unit Facility operated by California Resources Corporation (CRC), in the Mount Poso Oil Field on 26 October 2022. According to OES, a leak from a shipping line caused the discharge of approximately 400 bbls (16,800 gals) of crude oil to land affecting a secondary containment of a tank farm. On 26 October 2022, CRC staff stated that the discharged oil was entirely contained within a secondary containment area which is surrounded by an earthen berm. CRC staff added that no waterways or ephemeral stream beds were affected. On 27 October 2022, Staff inspected the spill site and observed ongoing cleanup work. CRC staff showed Staff the point of discharge and stated that the failed section of the pipe was taken out of service. Staff observed that the described containment area appeared to be mostly visually clean, except for some spots where cleanup crews were using shovels to remove oil-affected soil. Staff will follow-up with CRC regarding this incident until the waste is cleaned-up and the site is remediated.

## **OTHER**

Staff continues to assist the United States Environmental Protection Agency (USEPA) in a study that examines the quality of produced wastewater reused for irrigation. Specifically, USEPA staff are looking into novel methods of identifying chemicals associated with petroleum exploration, production, or treatment in produced wastewater. On 4/5 October 2022, Staff witnessed the collection of produced wastewater and blended produced wastewater reused for irrigation, groundwater, and surface water samples, conducted by a third-party, in Kern County, California. Since USEPA staff are located across the United States, Staff witnessed the collection of the samples on behalf of the USEPA and verified that everything was mailed to the appropriate USEPA facilities.

## **UIC PROGRAM**

During the period from 13 September 2022 to 8 November 2022, Staff of the Underground Injection Control Unit (UIC) 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.

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.

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 received information in response to a 13267 Order requiring the Operator to perform a hydrogeologic investigation in the South Belridge Oil Field. Staff is reviewing the information provided.

Staff issued two no objection letters and memorandums for UIC projects in the Lost Hills Oil Field.

Staff sent five letters and memorandums requesting information for UIC projects in the Mountain View, Edison, Midway-Sunset, and Cymric Oil Fields.

Staff received four responses to reviews performed for proposed waterflood, water disposal, steam flood, and cyclic steam projects in the Mountain View, North Belridge, South Belridge, and Midway-Sunset Oil Fields. Staff is reviewing the information provided.

Staff received project information relating to one cyclic steam and steam flood injection project in the South Belridge Oil Field. 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 two groundwater monitoring reports from operators in the Lost Hills and Buena Vista Nose Oil Fields. Central Valley Water Board staff conveyed draft comments to State Water Board staff.

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

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

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The focus of the July 20th meeting was on the development of the Groundwater Protection Targets. The October meeting was canceled because of the State Water Board Petition Order Update and the next stakeholder meeting is tentatively scheduled for January 2023.

More information regarding the stakeholder meetings can be found on the Central Valley Water Boards' [ILRP – Stakeholder Meetings and Workgroups web page](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html)

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/regulatory\\_information/stakeholder\\_advisory\\_workgroup/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html)).

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

Staff continues to work with UC Rangelands to gather information and evaluate regulatory options for the Irrigated Lands Regulatory Program to be more relevant and meaningful for irrigated pasture and low-threat crops in the upper watersheds and is currently focused on the Upper Feather River sub-watershed. The information includes pesticide use data, nitrogen/fertilizer use data, management practice data, geographic data, and economic analysis results.

### **STATE WATER BOARD INFORMATION ITEM REGARDING IMPLEMENTATION OF ORDER WQ 2018-0002**

On 7 February 2018, the State Water Board adopted Order WQ 2018-0002 in response to the petitions of the Eastern San Joaquin River Watershed General Waste Discharge Requirements, the first requirements adopted by the Central Valley Water Board to address discharges of waste from irrigated lands to both surface water and groundwater. Order WQ 2018-0002 included numerous requirements for the Central Valley Water Board's Irrigated Lands Regulatory Program, including a requirement for annual updates to the State Water Board starting in September 2020. On 20 September 2022, staff provided the third update in accordance with Order WQ 2018-002 and

focused on Program enrollment efforts, drinking water well monitoring and Groundwater Protection Targets. The [update presentation](#) is available on YouTube

([www.youtube.com/watch?v=g2h39wAZ2wM&t=3712s](http://www.youtube.com/watch?v=g2h39wAZ2wM&t=3712s)).

## **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 recently sent out “Reminder to Sample” postcards to 8600 members of the San Joaquin & Delta and the Tulare Lake Basin Water Quality Coalitions.

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 September and 31 October, 369 samples were submitted to GeoTracker by 208 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley, and the Tulare Lake Basin Water Quality Coalitions. Approximately 16 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 3588 drinking water well exceedances staff has received 3535 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 15,437 samples submitted to GeoTracker and approximately 23% exceed the nitrate MCL (as of 31 October 2022).

### **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.

<b>Coalition Area</b>	<b>Reminder Letters sent 1 Sept- 31 Oct</b>
San Joaquin & Delta Water Quality Coalition	301
<b>Total</b>	<b>301</b>



## NOTICES OF VIOLATION FOR FAILURE TO SUBMIT AN IRRIGATION AND NITROGEN MANAGEMENT PLAN SUMMARY REPORT

Notices of Violation (NOVs) were sent to coalition members for their failure to submit the Irrigation and Nitrogen Management Plan Summary Reports by the Board-approved deadlines. Members who did not respond to our reminder letters were issued NOVs urging them to promptly provide their reports to their respective coalitions or potentially face monetary penalties.

<b>Coalition Area</b>	<b>NOVs Mailed 1 September - 31 October</b>
Sacramento Valley Water Quality Coalition	256
East San Joaquin Water Quality Coalition	263
Kaweah Basin Water Quality Association	78
Kern River Watershed Coalition Authority	54
Kings River Water Quality Coalition	203
Tule Basin Water Quality Coalition	37
<b>Total</b>	<b>891</b>

### COALITION ENROLLMENT SUMMARY

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

### 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 issue reminder letters for late reports then follow up with Notices of Violation (NOVs) for those that don't respond. We are also preparing follow up with 13260 directive letters for members who have dropped out of the coalition due to non-payment. 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
8/2/2022	Rice QAPP Revision	Approved 10/4/22	

### SACRAMENTO VALLEY WATER QUALITY COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/28/2022	Monitoring Plan Update Revised	Approved 10/3/2022	Revised Monitoring Plan
5/18/2022	New Mgt Plan	Approved 10/14/2022	

## 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
9/13/2022	Revised MPU	Approved 9/26/2022	Revised monitoring plan

### SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/12/22	Monitoring Plan Update revised	Approved	Revised monitoring plan

### WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

#### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/30/22	AMR	Review sent 10/11	Awaiting revisions
1/18/22	QAPP	Review sent 7/27	Awaiting revisions

## GRASSLAND DRAINAGE AREA COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
No new submittals			

## 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
10/27/2022	PEP 2023 Update	Under Review	

## CAWELO WATER DISTRICT COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/23/2022	PEP 2023 Update	Under Review	

## KAWEAH BASIN WATER QUALITY ASSOCIATION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/20/2022	PEP 2023 Update	Under Review	

## KERN RIVER WATERSHED COALITION AUTHORITY

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/21/2022	PEP 2023 Update	Under Review	

## KINGS RIVER WATER QUALITY COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/26/2022	PEP 2023 Update	Conditional Approval 10/5/22	
10/31/2022	2021 AMR Revision	Pending	

## WESTLANDS WATER QUALITY COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/3/2022	2021 AMR	Pending	

## WESTSIDE WATER QUALITY COALITION

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/23/2022	PEP 2023 Update	Under Review	

## 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 that 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.

## ILRP ACRONYMS

Acronyms	Meaning
CVGMC	Central Valley Groundwater Monitoring Collaborative
PEP	Pesticide Evaluation Protocol
QAPP	Quality Assurance Project Plan

## GRASSLAND BYPASS PROJECT

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
No new submittals			

## NORMAN'S NURSERY

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
No new submittals			

## RICE PESTICIDES PROGRAM

### Deliverables and activities:

Submittal Date	Item	Review Status	Notes
No new submittals			

## NON-POINT SOURCE (NPS)

### CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

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

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

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

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

## CANNABIS

### 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		66	5	5	106
Colusa		1			2		5	8
Contra Costa					1		5	6
El Dorado		5			2			7
Fresno					6		8	14
Kern							4	4
Kings					2		2	4
Lake		134	2	7	258	3	57	461
Merced							9	9
Nevada	2	293	5		37		23	360
Sacramento							166	166
San Joaquin							6	6
Shasta							23	23
Sierra		1						1
Siskiyou							6	6
Solano							5	5
Stanislaus		7			1		38	46
Tulare							7	7
Yolo		17			43		4	64
Yuba							2	2

County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
<b>Totals</b>	<b>2</b>	<b>486</b>	<b>9</b>	<b>7</b>	<b>418</b>	<b>8</b>	<b>375</b>	<b>1305</b>

## CANNABIS OUTREACH

As of 11/10/2022 Water Boards staff have hosted 3 outreach events for FY 22/23. We have received helpful feedback from consultants and dischargers about scheduling and topics. We will continue to encourage communication through Surveys and discussion periods during the events.

- September 23, 2022 – Indoor Cultivation outreach event (Requested by participants)
- November 3, 2022 – Winterization outreach event

## COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

- July 2022 - 25 Notices to Enroll issued in Calaveras and Tuolumne County by Rancho staff.
  - 3 sites responded
  - 22 sites have been referred to Law Enforcement.
- Redding staff are investigating watersheds for the next enrollment enforcement effort.

## COMPLIANCE

November 8 Harihar and Nathan inspected multiple permitted sites with Bryan Moore.

October 28 Janae issued comments on the workplan for the Brassfield Winery/Hageol site.

## ENFORCEMENT INSPECTIONS

### Rancho Office:

- September 21 – Inspections in Amador County
- September 27 – Inspections in Tulare County
- October 4 – Inspections in San Joaquin
- October 4 – inspections in Tuolumne County



### Redding Office:

- July 19 – Inspection in Nevada County
- July 29 – Inspections in Shasta County
- August 10 and 11- Inspections in Shasta County
- September 22- Inspections in Yuba County
- October 17 – Inspections in Shasta County
- November 4 – Inspections in Shasta County

### **INSPECTION REPORTS ISSUED:**

#### Nevada County

- Birge site, IR issued July 29, 2022
- Keeling site, IR issued July 29, 2022
- Amiri site, IR issued August 18, 2022

#### Shasta County

- Oliverio Valencia site, IR issued October 28, 2022
- Ed Edwards/Carlile site, IR issued August 26, 2022
- Moffitt site, IR issued August 26, 2022
- Change site, IR issued August 26, 2022
- Herrerra site, IR issued September 9, 2022
- Soliz site, IR issued September 13, 2022
- Copeland site, IR issued October 6, 2022
- Macias site, Follow-up IR issued September 7, 2022

#### Yuba County

- Payne site, IR issued October 28, 2022

#### Lassen County

- Newhall site, IR issued July 22, 2022

#### Tulare County

- Velorio site, IR issued October 27, 2022
- Conchas site, IR issued October 26, 2022

## Tuolumne County

- Elite Realty site, IR issued November 2, 2022
- Gonzalo Pimental site, IR issued October 28, 2022

## San Joaquin

- Martin site, IR issued October 10, 2022

### **13267S ISSUED:**

- Oliverio Valencia, 13267 issued October 28, 2022 for cultivation in Yuba county

### **CLEANUP AND ABATEMENT ORDERS**

- Southwick, draft CAO 9/22/2022

## **GRANTS**

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

Approximately \$4 million each year is awarded to the Water Boards through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. [For more information, please visit the NPS website](#)

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

State Water Board and the Regions are in the process of developing the 2022 Grant Solicitation Guidelines, which will be released in Fall 2021. Once released, a copy of the Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage](#).

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

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

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

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and

nutrients from sites within the Sacramento-San Joaquin Delta. A time extension was requested in September 2020 due to delays with subcontracting and COVID restrictions. The request was approved, and the grant was extended to February 2024. (Closing 2/28/2024)

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

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

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

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

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

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

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

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.

The ARC to date 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. ARC plans

to complete remaining thinning and project roadwork activities in the fall of 2022.  
(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 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 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 storm event, plus associated sediment, and debris. CEQA has been completed. A Notice of Exemption was approved and concurred by State Board in July and filed with the Clearinghouse on August 26th, 2020. The grantee has recently submitted their project assessment and evaluation plan as well as their proposed schedule of operations. The grantee is currently working on finalizing design plans which will be submitted to the Central Valley Water Board for review. 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. The grantee is currently working to schedule and implement construction activities but has been delayed due to impacts from the Mosquito Fire that was burning within the project's watershed. (Closing 2/28/2024)

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

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

**\*On 18 July 2022**, staff issued a public notice of proposed case closure for Comfort Air located at 1607 Turnpike Road, Stockton, San Joaquin County. Staff mailed the notice/factsheet to the owners and occupants of the Site and the surrounding properties. Staff posted the notice/factsheet on the Central Valley Water Board UST- Decisions Pending & Case Closures website. Staff did not receive comments from the public. (MWM)

**\*On 1 August 2022**, staff began a 60-day public comment period on the proposed case closure of Thomas Tractor Company located at 985 12<sup>th</sup> Street, Firebaugh Fresno County. The notice/factsheet 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 and posted to the Water Board's website UST- Decisions Pending & Case Closures webpage and uploaded to GeoTracker. Comments against closure were not received (JDW).

**\*On 15 August 2022**, staff issued a 60-day public notice/factsheet of proposed case closure for Triangle Rock located at 5411 Mayhew Road, Sacramento, Sacramento County. Staff mailed the notice/factsheet to the owners and occupants of the Site property and the surrounding properties. Staff also posted the notice/factsheet on the Central Valley Water Board UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (MJD)

**\*On 17 August 2022**, staff issued a 30-day public factsheet for proposed in-situ remediation for Full Stop Market located at 1675 North Beale Road, Linda, Yuba County. Staff mailed the factsheet to the owners and occupants of the Site and the surrounding properties. In addition, staff posted the Tentative Notice of Applicability for coverage under our In-Situ General Order to the Tentative Orders page on the Central Valley Water Board's website as well as the Central Valley Water Board UST-Decisions Pending & Case Closures website for a 30-day comment period. Staff did not receive comments from the public. (MJD)

**\*On 23 August 2022**, staff issued a 30-day public factsheet for proposed in-situ remediation for Sierra Superstop #8 located at 5057 Olivehurst Avenue, Olivehurst, Yuba County. Staff mailed the factsheet to the owners and occupants of the Site and the surrounding properties. In addition, staff posted the Tentative Notice of Applicability for coverage under our In-Situ General Order to the Tentative Orders page on the Central Valley Water Board's website as well as the Central Valley Water Board UST- Decisions Pending & Case Closures website for a 30-day comment period. Staff did not receive comments from the public. (MJD)

**\*On 5 September 2022**, staff issued a 60-day public factsheet for a proposed remediation system for Kelley Motors located at 18475 5<sup>th</sup> Avenue Jamestown, Tuolumne County. Staff mailed the factsheet to the owners and occupants of the Site and the surrounding properties. In addition, staff posted the Tentative Notice of Applicability for coverage under our In-Situ General Order to the Tentative Orders page on the Central Valley Water Board's website as well as the Central Valley Water Board

UST-Decisions Pending & Case Closures website for a 30-day comment period. Staff did not receive comments from the public. (BJL)

**On 15 September 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. Meeting participants discussed a variety of restoration, planning, in stream flow management activities, and funding opportunities. The U.S. Fish and Wildlife Service provided an update on their fisheries monitoring, which included snorkel surveys, juvenile monitoring, and other monitoring activities. The U.S. Bureau of Reclamation (USBR) provided CVPIA funding updates and on flow management operations on Clear Creek. Lastly Derek Rupert with the USBR provided a slideshow presentation that provided summary of Clear Creek Restoration History.

**\*On 29 September 2022**, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

**\*On 6 October 2022**, Meredith Howard and Karen Atkins participated in a panel as part of the Delta Stewardship Council's Science For Communities workshop. Attendees included Delta community members, state and local agencies, and scientists.

**\*On 27 October 2022**, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

**On 3 November 2022**, Kate Sjoberg an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry, and the public to work together to evaluate, understand, communicate, plan, and provide training for emergency response incidents resulting from chemical hazards within the Region. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. This month's meeting discussed, Cal OES grant updates, upcoming California Specialized Training Institute (CSTI) and other regional trainings. LEPC chair also discussed recent membership appointments on the committee. Participating agencies in attendance also provided brief agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

Lastly, those in attendance were able to participate in an outside demonstration of Butte/Chico's HazMat Response Team vehicle.

**\*On 8 and 9 November 2022**, Meredith Howard, Karen Atkins, and Janis Cooke participated in the Delta Science Program Delta Harmful Algal Blooms Workshop. Attendees in the hybrid workshop included representatives from public agencies, research groups, and community members. The workshop included presentations about current monitoring efforts and discussion by participants of monitoring and data sharing needs. Meredith Howard and Karen Atkins presented at the workshop and Meredith Howard was a panelist for the discussion on monitoring.

**\*On 10 November 2022**, Patrick Pulupa, Adam Laputz, Meredith Howard, Lauren Smitherman, Adriana Ross, Angela Llaban, and Janae Bonnell hosted a Tribal Beneficial Uses Update meeting to provide tribes and their representatives an update on the project activities and to hear questions and topics of interest directly from tribes. The meeting was conducted as a hybrid meeting, both at the Central Valley Water Board Sacramento office and virtually.

## **GENERAL UPDATES TO THE BOARD**

### **PERSONNEL AND ADMINISTRATION**

#### **STAFFING UPDATES – SEPTEMBER 1, 2022 – OCTOBER 31, 2022**

##### **PROMOTIONS**

Rebecca Asami – Engineering Geologist  
Carson Blodow – Environmental Scientist  
Randy Gudino – Environmental Scientist  
Nicholas Handcock – Staff Services Analyst

##### **NEW HIRES:**

Janaé Bonnell – Environmental Scientist  
Joe Canchola – Engineering Geologist  
Vishaal Kumar – Water Resource Control Engineer  
Petra Lee – Senior Environmental Scientist (Sup.)  
Angela Llaban – Senior Environmental Scientist (Spec.)  
Maria Lovato – Staff Services Manager I

##### **RETIREMENTS:**

None

**SEPARATIONS:**

Sarah Boogay – Engineering Geologist  
Christopher Gonzalez – Scientific Aid  
John Murphy – Senior Engineering Geologist  
Teresa Trinh – Water Resource Control Engineer

**SUMMARY OF POSITIONS:**

Total Authorized Positions: 304.2  
Total Temporary Positions: 23.0  
Total Vacant Positions: 30.0

**Sacramento**

Authorized Positions: 152.5  
Temporary Positions: 9.0  
Vacancies: 14.0

**Fresno**

Authorized Positions: 79.0  
Temporary Positions: 8.0  
Vacancies: 12.0

**Redding**

Authorized Positions: 49.7  
Temporary Positions: 6.0  
Vacancies: 4.0

**TRAINING UPDATES – 1 SEPTEMBER 2022 – 31 OCTOBER 2022**

<b>Class Title</b>	<b>Number of Attendees</b>
2022 CASQA Conference	3
8-Hour HAZWOPER Refresher	32
11th U.S. Symposium on Harmful Algae	1
Advancing Racial Equity at Cal EPA LEAD 109	4
Best Practices for Multilingual Writers & Readers	2
Beyond the Pandemic: The Hybrid Workforce 22-23	2
Blueprint for a Changing Workplace	4
CALMS 37th Annual Conference	1
Can we talk? An Introduction to the Complexity of Communication (WLP 104)	3



<b>Class Title</b>	<b>Number of Attendees</b>
CDFA Nutrient Management FREP Conference	4
Conducting Effective Meetings	2
Contaminants of Emerging Concern in California: Toxicity, Transport, Fate, Remediation, and Regulation	12
Covid 19 Awareness	85
CRAM (California Rapid Assessment Method) for Planners and Managers	5
Developing your Individual Development Plan (IDP)	1
Field Safety Training HSTY105	1
Forest Chemical Vegetation Management 101	2
GRAC (Groundwater Resources Association of California) 5th Annual Groundwater Congress	6
INMTP: Irrigation and Nitrogen Management Training for Grower Self-Certification	1
Intermediate R	1
Introduction to GIS TIMG101	3
Introduction to Project Management WLP106	1
Introduction to SharePoint for Office 365: Exploring the Water Board's Environment	1
Introductory Public Speaking	3
Leading Effectively	1
Macrophyte Identification	1
Microsoft Excel Advanced: Level 5 Pivot Tables	5
Microsoft Excel Advanced: Level 6 Power Pivot	1
Microsoft Excel Basics: Level 4 Advance Features	2
Performance Appraisal and the IDP	2
Principles of Contaminant Transport and Fate in Soil and Groundwater	5
Procurement Training	4
Sedimentation and Erosion 101: Sediment Sources, Characteristic, and Movement TECH021	6
Squash Burnout and Thrive Instead	1
Statewide Enforcement Training	67
Stormwater Pollutant Chemistry, Monitoring and BMP Effectiveness - TECH031	5
Supervisor Development Program	1
Water Boards 101: Introduction to the California Water Boards ADMN114	2
Water Boards 101: Training Services	12
Working and Thriving in Complex Organizations (WLP105)	4

## FISCAL UPDATE

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

## CONTRACTS

### Operational Support Services

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-012-150	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	6/18/2021	6/30/2023	\$60,000
20-072-150	Air Shasta Rotor & Wing, Inc.	Helicopter aerial surveillance services (Redding office – SB 901 funds)	6/15/2021	6/30/2023	\$95,000
22-025-150-1	Pitney Bowes	Postage Machine Maintenance and Service (Rancho, Redding & Fresno)	7/1/2022	6/30/2024	\$11,815.40
22-026-150	Department of Water Resources	Drone Aerial Surveillance (Rancho Cordova Office)	7/1/2022	6/30/2025	\$59,999.60

### Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
19-033-150-1	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	9/30/2022	\$525,000
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

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
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
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	1/31/2026	\$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.

## **FEBRUARY 2023 BOARD MEETING**

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

- Sierra Nevada Cheese (Revised)
- City of Modesto WQCF (Revised)
- Azteca Milling (New)

## **APRIL 2023 BOARD MEETING**

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

- Redding Regional Septage (Revised)
- California Concentrates (Revised)

## **JUNE 2023 BOARD MEETING**

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

- Rawson Road Septage Ponds (Revised)
- Bronco Winery (Revised)
- City of Dinuba WWTF (Revised)
- Cutler-Orosi Joint Powers Wastewater Authority WWTF (Revised)

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

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

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

- Central Valley Meat (Revised)
- City of Arvin WWTF (Revised)
- City Ceres WWTF (Revised)
- City of Lemoore and Leprino Foods Company, Stone Ranch Property (Revised)
- Fowler Packing (Revised)
- Morning Star Packing Company (Revised)
- Pacific Coast Producers (Revised)
- Rabbo Bros. (Revised)
- Teichert Hallwood (Revised)
- Teichert Marysville (Revised)
- Teichert Vernalis (Revised)
- Teichert Woodland (Revised)
- Turner Road Vintners (Revised)
- Tucson Ridge Development WWTF (New)
- Ventura Coastal Corporation (Revised)
- Woodbridge Winery (Revised)

## ATTACHMENT A

### ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 September 2022 through 31 October 2022

Spill Cause	Count of Spill(s)	Percent (%)
CS Maintenance Caused Spill/Damage	1	1%
Debris from Construction	1	1%
Debris from Lateral	1	1%
Inappropriate Discharge to CS	1	1%
Pump Station Failure-Controls	1	1%
Rainfall Exceeded Design, I and I (Separate CS Only)	1	1%
Debris-Rags	2	2%
Operator Error	2	2%
Vandalism	2	2%
Debris-Wipes/Non-Dispersables	3	4%
Other (specify below)	3	4%
Pipe Structural Problem/Failure	3	4%
<b>Total</b>	<b>83</b>	<b>100.0%</b>

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 September 2022 through 31 October 2022

Office	Category 1	Category 2	Category 3	Total
5F	0	1	3	4
5R	0	0	1	1
5S	6	3	69	78
<b>Total</b>	<b>6</b>	<b>4</b>	<b>73</b>	<b>83</b>

## ATTACHMENT A

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

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

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

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

### Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 1 September 2022 through 31 October 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	Vacaville City DPW	Easterly CS	883500	Solano	Yes	688	644	9/25/2022	Other (specify below)		
5S	Grass Valley City	Grass Valley City CS	883754	Nevada	Yes	260	200	10/13/2022	Debris-General		
5F	California Department of Corrections and Rehabilitation	Folsom State Prison CS	883588	Sacramento	Yes	100	100	9/30/2022	Debris-General		
5F	Sacramento Area Sewer District	Sacramento Area Sewer District CS	883304	Sacramento	Yes	90	51	9/15/2022	Root Intrusion		

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	California Department of Corrections and Rehabilitation	Folsom State Prison CS	884033	Sacramento	Yes	50	50	10/1/2022	Debris-General		
5F	South Placer MUD	South Placer Mud CS	883718	Placer	Yes	30	22	10/9/2022	Debris-Wipes/Non-Dispersables		