

**EXECUTIVE OFFICER'S REPORT  
21-22 APRIL 2022**

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

**Patrick Pulupa, Executive Officer**



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## **SUCCESS STORIES**

### **IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS**

Under the Irrigated Lands Regulatory Program (ILRP), a management plan is triggered when water samples from a monitoring site are tested, and a constituent has two or more exceedances of the appropriate water quality limit within a 3-year period. This requires development of a management plan by the Coalition and implementation of improved management practices by member growers. Implementation is deemed successful when the Coalition demonstrates: (1) at least three years of compliance with receiving water limitations; (2) documentation of third-party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

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

On 22 March 2022, the Executive Officer approved completion of six surface water management plans for the San Joaquin County & Delta Water Quality Coalition (Coalition) as follows:

- Toxicity: two (one *Ceriodaphnia dubia* and one *Selenastrum capricornutum*)
- Pesticides: one (Chlorpyrifos)
- Specific Conductance: one
- Nitrate plus Nitrite and N: two

The implemented management plans successfully eliminated water quality problems caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of increased practices implemented by growers include: working with a Pesticide Control Advisor to select low toxicity pesticides; reducing use of pesticides; incorporating non-chemical weed control; installing sprinkler or micro-irrigation systems, implementing irrigation management to reduce runoff water volume; and maintaining buffer between treated areas and water bodies. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

### **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**

### **PILOT TRAVEL CENTER NO 168 30335 COUNTY ROAD 8, DUNNIGAN, YOLO COUNTY**

The Site is an active service station and truck stop in Dunnigan, California. Based on reports and subsurface data, at least four unauthorized petroleum releases have occurred at the Site: a petroleum release in the 1970s, a suspected gasoline release in 1980, a diesel release in 1995, and a diesel release in 2004. Between February 2002 and December 2003, Pilot operated a soil vapor extraction remediation system, which removed approximately 3,600 pounds of vapor-phase petroleum. Between 2004 and 2008, Pilot removed approximately 5 gallons of product with passive skimmers in monitoring wells. In February and March 2009, Pilot removed 782 gallons of impacted groundwater with a mobile vacuum truck. Concentrations of petroleum in groundwater continue to decrease by natural degradation and are expected to reach water quality objectives in a reasonable amount of time. In March 2021, Broadbent evaluated the case for closure in accordance with *Low Threat Underground Storage Tank Case Closure Policy*. Central Valley Water Board staff concurred. Broadbent completed the case closure requirements. Staff closed the case on 24 March 2022. (MJD)

### **RANCH MARKET 23569 SOUTH SANTA FE ROAD RIVERBANK, SAN JOAQUIN COUNTY**

In May 1991, Mr. Munir Obaid removed one 5,000-gallon and two 1,000-gallon fuel underground storage tanks (UST) and the associated piping and dispenser. Between June 1998 and June 2017, Mr. Obaid installed/advanced a total of 10 groundwater monitoring wells, 31 remediation wells, 2 soil gas monitoring wells, and 25 soil and groundwater borings to assess and cleanup the Site release. Mr. Obaid performed remediation at the Site that included soil vapor extraction, air sparging, and ozone sparging, which removed 19,150 pounds of hydrocarbons 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 *Low Threat Underground Storage Tank Case Closure Policy*, and staff closed the case on 14 February 2022. During the Ranch

Market investigation, consultants identified an off-Site release of petroleum. Staff opened a separate UST case for the property adjacent to Ranch Market. (AMB)

### **SPANISH FLAT YARD**

#### **4300 SPANISH FLAT LOOP ROAD NAPA, NAPA COUNTY**

In January 1991, a 1,000-gallon steel gasoline UST and a 1,000-gallon diesel UST were removed. Petroleum hydrocarbons were detected in soil samples collected from the UST excavation. The stockpile was used to backfill the excavation. Edd Clark and Associates, Inc. (EC&A) completed subsurface investigations between 2003 and 2007. In September 2008, EC&A removed approximately 775 cubic yards of petroleum hydrocarbon impacted soil from the former UST location. EC&A backfilled the excavation with clean imported fill. Between 2010 and 2018, EC&A operated a dual-phase extraction remediation system that removed approximately 6,000 pounds of vapor-phase petroleum. In a 9 July 2020 EC&A evaluated the case for closure under the *Low Threat Underground Storage Tank Case Closure Policy* and concluded that the case met closure criteria. Staff concurred. EC&A completed the case closure requirements. Staff closed the case on 14 February 2022. (VJF)

## **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**

#### **FOSTER FARMS, TIM BELL RANCH, WATERFORD, STANISLAUS COUNTY**

The Foster Farms – Tim Bell Ranch historically operated as a poultry farm that utilized a diesel-powered heating system supplied by a single, 10,000-gallon aboveground storage tank (AST). Following the discovery of an unauthorized release of diesel fuel from a faulty valve on a conveyance line associated with heating system, Foster Farms excavated petroleum-impacted soil from this area of the Site and upgraded the Site's heating system. During the subsequent facility upgrade from diesel to propane heating systems, Foster Farms encountered additional petroleum-impacted soil at another area of the facility and excavated these additional areas. Excavation extended to a maximum depth of approximately 45 ft bgs in some areas of the Site. Foster Farms removed approximately 7,550 tons of soil from the Site and disposed of it at Forward Landfill in Stockton, California. Foster Farms did not encounter groundwater during the remedial excavation activities, which is reportedly present at approximately 90 feet bgs in the Site vicinity. Additionally, within the excavation locations, laboratory analysis of the 26 confirmation samples collected from the Site did not contain diesel, benzene, toluene, ethylbenzene, or xylenes (collectively, BTEX) above their respective reporting limits. Excavated areas of the Site were subsequently backfilled using a combination of clean soil from an on-Site borrow area; clean, segregated overburden generated during

excavation activities; and clean, imported soil from off-Site. Foster Farms continues to operate the Site as a poultry farm; however, the facility now uses a propane-based heating system. The Site vicinity is also used for agricultural purposes.

### **UNION PACIFIC RAILROAD (UPRR) STOCKTON YARD, 833 EAST EIGHTH STREET, STOCKTON, SAN JOAQUIN COUNTY**

Between January 2017 and March 2019, Union Pacific Railroad (UPRR) reported four separate releases at the UPRR Stockton rail yard. Three of the four releases contained petroleum hydrocarbons and one release contained polychlorinated biphenyl (PCB) transformer oil. During January 2017 through 2019, UPRR excavated impacted soil from each of the release areas. Confirmation soil and groundwater samples did not contain concentrations above the remedial goals. A No Further Action Determination letter was issued 15 February 2022.

### **FORMER SHELL OIL PIPELINES, CORDES RANCH, HANSEN ROAD, SAN JOAQUIN COUNTY**

Enterprises LLC dba Shell Oil Products (Shell) operated the Former Shell Central Valley Crude Oil Pipeline on Hansen Road in Cordes Ranch pipeline area in Tracy (Site) until the 1960s. The Site boundary encompasses about 2 miles of former crude oil pipeline right-of-way south of Highway 205, northwest of Hansen Road, and north of Schulte Road. Site assessments began in 2001 with the removal of the pipelines. Periodic groundwater monitoring began in 2010. Between 2002 and 2016, Shell drilled 143 borings, installed 28 groundwater monitoring wells, and installed 3 soil vapor probes at the Site. Based on the Site assessment results, Shell excavated about 175 tons of petroleum hydrocarbon impacted soil from the Site. Though there were limited impacts of petroleum hydrocarbons to groundwater, groundwater use in the area is restricted by the City of Tracy and drinking water is supplied by them. Since there were residual petroleum hydrocarbons in the soils after the remedial excavations were performed, there was a need to establish institutional controls to ensure that any soil contamination encountered in the future was handled properly. The institutional controls included an approved Soil Management Plan (SMP) by Shell and the City of Tracy's Developer/Permittee Acknowledgement form that ensures anyone proposing to perform subsurface work in the Cordes Ranch development area (Site area) is aware of the former pipeline and the potential for encountering petroleum contamination. The form also has special notification and soil handling requirements (per the approved SMP) if petroleum impacted soils are or are likely to be encountered. Based on this information, Shell has satisfactorily completed the Site investigations and achieved applicable remedial action standards and objectives. A permanent remedy has been implemented at the Site and therefore a no further action was issued on 14 February 2022.

## **REDDING**

### **FORMER FRANKLIN SKYWAY ASPHALT PLANT, CASE SLT5R1117, BUTTE COUNTY**

The subject property is a vacant lot previously occupied by Franklin Skyway Asphalt Plant from the 1990s until Site infrastructure (including two 10,000-gallon diesel above ground storage tanks (ASTS), one 10,000-gallon hot oil AST, and one 1,000-gallon used motor oil AST), and asphalt production materials were removed between early 2020 and July 2021. In 2019, as a condition of sale of the subject property, a Phase I Environmental Site Assessment (ESA) and Phase II ESA were performed. The ESAs identified groundwater impacts for gasoline range organics (GRO), diesel range organics (DRO), and benzene above applicable screening levels through advancement of soil borings and subsequent grab groundwater sampling. The Phase II ESA included collection of 50 shallow surface soil samples in a grid pattern across the Site. Soil analytical results identified DRO and motor oil range organics (MORO) above applicable screening levels. Unsupervised asphalt production material removal and shallow soil excavation occurred intermittently following the collection of soil samples. In July 2020, four soil borings were advanced and converted into five monitoring wells, including one nested well. The wells were sampled four consecutive quarters beginning with the Third Quarter of 2020. The Site was referred to the Central Valley Water Board in March 2021 who then became the lead agency and opened a Site Cleanup Program Case. A work plan was submitted in June 2021 and updated in September 2021 to recharacterize and delineate soil removal areas at the site due to unsupervised materials removal. In September 2021 the work plan was executed and resulted in the removal of approximately 79 cubic yards (cy) of impacted soils (an estimated 23.95 pounds of DRO and 73.33 pounds of MORO). It is estimated approximately 1,400 cy of soil was removed during unsupervised activities. Through quarterly groundwater monitoring and confirmation sampling following supervised soils removal, the vertical and lateral extent of petroleum-related contaminants in soil, soil vapor, and shallow groundwater was delineated. Remaining petroleum contamination was not identified in groundwater and residual soil contamination does not pose a health risk and is expected to continue to decrease. Staff closed the case under the *Low-Threat Closure Policy* in January 2022.

### **REDDING TANKER TRUCK SPILL**

On 21 January 2022, SST Oil, Discharger, spilled 6,126 gallons of trans-mix, a gasoline and diesel fuel mixture, in Redding during a tandem truck overturn. Trans-mix flowed into City of Redding stormwater drop inlets and reached outfalls in the Anderson Cottonwood Irrigation District (ACID) canal and Calaboose Creek, tributaries of the Sacramento River. Trans-mix reached the Sacramento River from Calaboose Creek. Department of Fish and Wildlife (DFW) biologists observed ecological impacts including dead Federally threatened steelhead in Calaboose Creek within 800 feet of its confluence with the Sacramento. Nonetheless, emergency responders recovered at least 30% of the spill, likely in part due to effective petroleum containment within the subgrade stormwater management system up-flow of outfalls. Sorbent materials are in place to mitigate further petroleum discharges.

The Discharger is further addressing time-sensitive issues during the remaining 2021-2022 wet season. The ACID, now mostly dry, will divert irrigation water from the Sacramento to agricultural land on or near 1 April 2022. Therefore, the Discharger has scraped petroleum impacted sediment from the canal floor at several small hot spots. Petroleum odor and sheen persist in sub-grade and open channel portions of Calaboose Creek. Based on current field observations, rain events can mobilize petroleum toward the confluence. Therefore, the Discharger is actively removing petroleum-impacted debris, agitating sediment, vacuuming impacted water, and setting fresh sorbent materials. The Discharger is monitoring effectiveness in coordination with DFW and Central Valley Water Board staff. (EJR)

## **STAFF RECOGNITION**

### **SUPERIOR ACCOMPLISHMENT AWARDS**

At the February 17, 2022 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

**EMPLOYEE: JEFF HANNEL**

**UNIT: COMPLIANCE/ENFORCEMENT**

**LOCATION: Fresno Office:**

**TITLE: Engineering Geologist**

**SUPERVISOR: Russell Walls, Senior Water Resource Control Engineer**

Jeff is being recognized for his outstanding work performance on facility inspections, complaint reviews/responses, sanitary sewer overflow (SSO) oversight, Non15 site regulation, and wildfire debris removal volunteer work for CalRecycle. Jeff joined the Central Valley Water Board in 1999, bringing with him many years of consulting experience. Since joining the Compliance/Enforcement Unit, Jeff has successfully applied his past experience and technical skills to effectively regulate and bring into compliance both municipal and industrial wastewater treatment facilities.

Jeff provides regulatory oversight for Non15 regulated sites, including SSOs and complaints, in Fresno, Kern, Kings, Madera, Mariposa, Merced, Tulare and Tuolumne Counties. Jeff is the primary staff person who evaluates groundwater monitoring networks and associated results of Non15 sites for compliance. Jeff coordinates all complaints received through the CalEPA Complaint System for the Fresno Office. Jeff also volunteered for wildfire deployment work and was deployed for one month during the quarter of this award. During the two months of said quarter that Jeff was not deployed, Jeff completed thirteen inspections including write-ups, reviewed and approved a pond closure report, reviewed and approved a groundwater monitoring well installation work plan, revised a monitoring and reporting program, and inspected a SSO in Tuolumne County.



Jeff is a valuable asset of the Compliance/Enforcement Unit. In addition to his excellent attitude and professional demeanor, Jeff willingly and enthusiastically works on any project he is given. He has the ability to quickly complete investigations, reviews, and writeups, and as a result completes a large volume of work. Jeff carries with him a level of professionalism and dedication that well represents the Central Valley Water Board.

**EMPLOYEE: PATRICK DE CARVALHO**

**UNIT:** NON-I5 WDR, PERMITTING/ENFORCEMENT

**LOCATION:** Redding Office:

**TITLE:** Water Resources Control Engineer

**SUPERVISOR:** David Durette

The Central Valley Water Board's Redding office management team is pleased to select Patrick DeCarvalho for the Superior Accomplishment Award. He has been the lead staff for the office's Title 27 work since March 2017, managing the permitting, compliance, and enforcement elements for 30 landfills and surface impoundments. Since joining the Water Boards, he has inspected each facility at least once, averaged two Waste Discharge Requirements revisions a year, and taken on the Title 27 elements for several mine projects. During this time, Patrick pursued and obtained his professional engineering license, and provides support to his colleagues with documents for their cases which require professional engineering review.

Patrick is being recognized for his work on the Neal Road Landfill which serves the Chico area, the Redding office's largest active landfill. He recently issued revised waste discharge requirements for public comment which will be considered for adoption at the February Board meeting. Preparation of this revised permit was particularly challenging because the facility has undergone significant changes in the last ten years and has ongoing Water Board enforcement actions related to leachate releases to offsite storm water during the 2019 winter season. Following the 2019 wet season, Patrick worked closely with the facility to ensure it has adequate capacity and operational procedures in place to manage its storm water and to minimize leachate generation. He continues to respond to concerned stakeholders' inquiries regarding the facility.

Patrick approaches his work with a consistently positive attitude. He is known within our office for his detailed inspection reports and high-quality work products. The Redding office's management team appreciates his reliability and organizational skills in managing his caseload.

**EMPLOYEE: ANNE WALTERS**

**UNIT:** PLANNING

**LOCATION:** Sacramento Office:

**TITLE:** Senior Environmental Scientist

**SUPERVISOR:** Meredith Howard

Anne Walters is a highly valued member of the Planning Section at the Central Valley Water Board. She is being recognized for her efforts to lead the Central Valley Salinity

Alternatives for Long-term Sustainability (CV-SALTS) Program, a high priority program for the Central Valley Water Board.

The implementation of the CV-SALTS program is complex, as it involves the entire Central Valley and affects many programs at the Central Valley Water Board. There are two control programs consisting of two compliance pathways each, new, innovative methods of controlling contaminants, and many urgent deadlines, as the control programs are addressing dire contamination issues, including contaminated drinking water. Anne has managed the many moving parts of CV-SALTS implementation and coordination both internally and externally with grace and a positive attitude. She is very personable and friendly and makes everyone feel at ease while tackling enormous challenges of CV-SALTS implementation. Her leadership skills have been a critical asset to the successful implementation of the program and coordination with multiple programs within the Central Valley Water Board.

Anne is well deserving of the superior accomplishment recognition and is a true champion for implementing the Central Valley Water Board's mission.

**EMPLOYEE: SUSAN FREGIEN**

**UNIT: IRRIGATED LANDS REGULATORY PROGRAM**

**LOCATION:** Sacramento Office:

**TITLE:** Senior Environmental Scientist

**SUPERVISOR:** Sue McConnell

Susan is an integral part of the Irrigated Lands Regulatory Program and instrumental in the achievement of many of its successes. In addition to supervising all staff members who oversee Northern agricultural coalition activities, Susan manages the USGS splittail contract, facilitated the managed wetlands workgroup, coordinates with State Board ELAP staff on obtaining the desired minimum reporting level for imidacloprid, supervises region-wide ILRP surface data entry into CEDEN and review of pesticide evaluation proposals, and much, much more.

During the last quarter of 2021, Susan successfully brought a resolution to exempt management wetlands from the ILRP for the general orders regulating the northern coalitions. Susan had previously worked on exempting managed wetlands from the Tulare Lake Basin Irrigated Lands general orders in 2016. In December, she assisted with bringing the Grassland Bypass Project Information Item to the Board.

Susan handles the myriad of tasks she is responsible for with great poise, professionalism, and skill. She excels as a technical expert and a supervisor. While teleworking, Susan has used her organizational skills to keep her staff supported, engaged, and accountable. She has done an excellent job of adjusting to the remote work environment, with the effective use of more on-line tools.

For these reasons and so much more, Susan is truly deserving of the superior accomplishment recognition.

## **EMPLOYEE RECOGNITION AWARDS FEBRUARY 2022 THROUGH APRIL 2022**

**EMPLOYEE: GALVIN KAUFFMAN**

**UNIT:** UST ENFORCEMENT

**LOCATION:** Sacramento Office:

**TITLE:** Senior Engineering Geologist (Supervisory)

**SUPERVISOR:** Steven Meeks

Galvin Kauffman is a Senior Engineering Geologist (EG) in the UST Program at the Rancho Cordova office. After working 8+ years in the private sector, Galvin joined the State Water Board's Department of Financial Assistance in 2017. He later joined the Central Valley Water Board's UST Program in the Rancho Cordova office in 2020 as a case manager, where he excelled in his new position. Galvin then applied for and was promoted to a Senior EG position in our UST Program in 2021.

As a new Senior EG, Galvin supervises an impressive 7 staff professionals (5 EGs, 1 WRCE and 1 SA). He ensures that his staff have the tools they need to succeed in their jobs. Galvin always keeps his managers informed of priority issues and never hesitates to assist with or take on complex or even publicly sensitive projects.

As an example of Galvin's ability to handle publicly sensitive projects, he recently worked closely with his staff, managers, OCC, the City of Sacramento (City) and several concerned community members to create a land use covenant (LUC) variance for the former Colfax Yard UST case so the City could safely initiate their Safe Parking project on the applicable land parcel. The project is expected to provide temporary safe vehicle parking and living space for homeless individuals and their families that must live in their vehicles. The variance was needed since the former UST case was closed with a LUC restricting the property to only commercial use. To accomplish this, Galvin had to work with numerous concerned and emotionally engaged community members in the area, where he carefully listened and responded to their concerns about the variance. Though not all community members were completely satisfied with the issuance of the variance, Galvin still received complements from them for being very professional, helpful, and listening to and addressing their concerns where possible.

As a valuable member of the UST Program, Galvin consistently provides high quality work, excellent supervision of his staff, and is very responsive and respectful to the regulated community and the public. For the reasons listed above and more, Galvin 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 of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil Liability (ACL) Orders and Complaints) that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

**Enforcement Table 1 – Central Valley Enforcement Orders  
1 January 2022 through 28 February 2022**

Action Date	Agency	County	Notes
1/27/2022	Aerojet Rocketdyne, Inc.	Sacramento	Administrative Civil Liability (ACL) R5-2021-0530 in the amount of \$18,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
1/27/2022	Davis City	Yolo	ACL R5-2021-0527 in the amount of \$24,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
1/27/2022	Mountain House CSD	San Joaquin	ACL R5-2021-0531 in the amount of \$27,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board’s Executive Officer.
1/27/2022	Nevada City	Nevada	ACL R5-2021-0532 in the amount of \$12,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL

Action Date	Agency	County	Notes
			converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	City of Modesto	Stanislaus	ACL R5-2021-0528 in the amount of \$27,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	Sacramento Regional CSD	Sacramento	ACL R5-2021-0526 in the amount of \$3,000 addresses mandatory minimum penalty (MMP) for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	City of Stockton	San Joaquin	ACL R5-2021-0523 in the amount of \$15,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	City of Williams	Colusa	ACL R5-2021-0524 in the amount of \$6,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	City of Woodland	Yolo	ACL R5-2021-0529 in the amount of \$45,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
1/27/2022	Yuba City	Sutter	ACL R5-2021-0525 in the amount of \$9,000 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.

## ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 January 2022 through 28 February 2022. From a statewide perspective, Region 5 is responsible for 19% of the enforcement actions tracked in CIWQS during this period including 9% of all staff enforcement letters, 59% of all ACLs, and 14% of all NOVs.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS  
1 January 2022 through 28 February 2022**

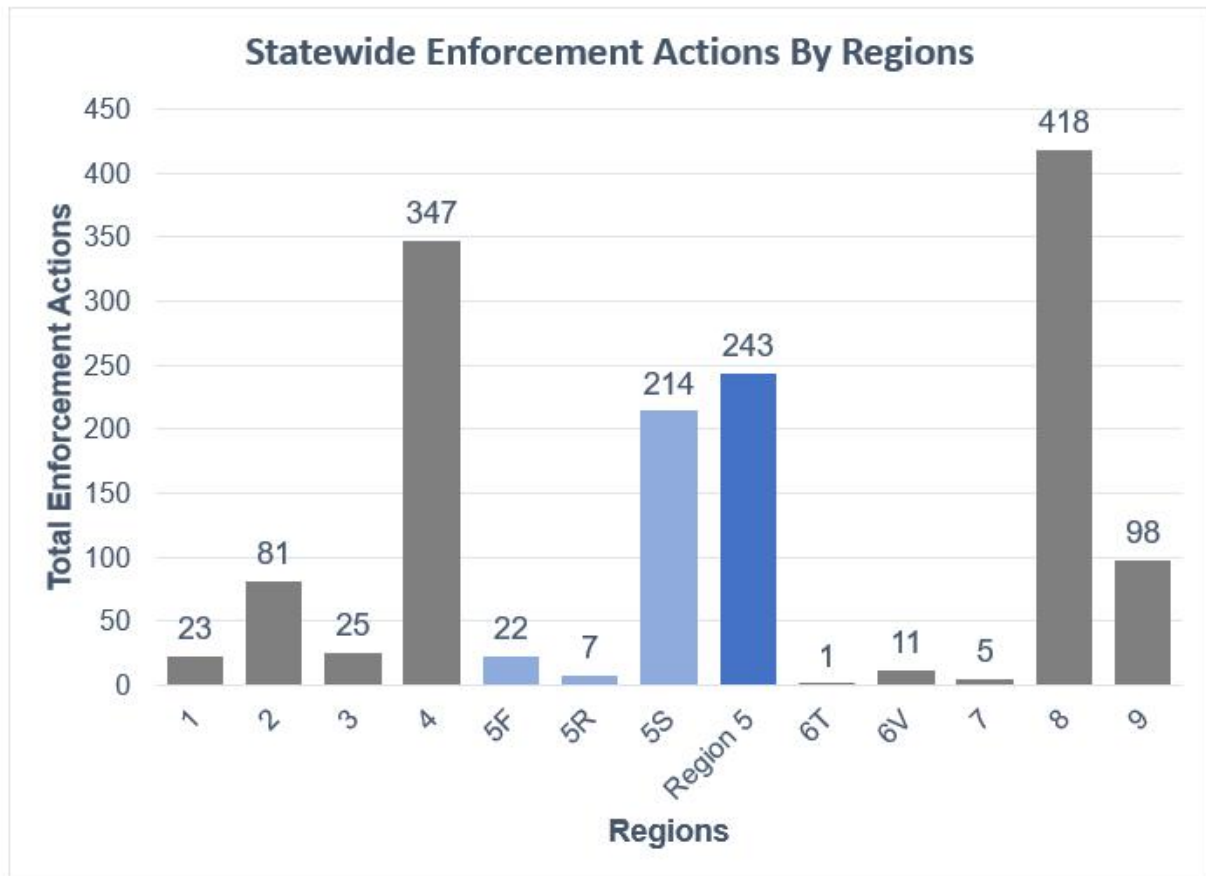
Region	NNC	ACL	CAO	EPL	NOV	SEL	VER	Total
1	1	0	1	0	21	0	0	23
2	1	0	0	0	80	0	0	81
3	0	1	0	0	22	0	2	25
4	15	3	0	5	317	0	7	347
5F	0	0	0	0	17	0	5	22
5R	0	0	0	0	5	0	2	7
5S	99	10	0	0	98	3	4	214
<b>R5 Totals</b>	<b>99</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>3</b>	<b>11</b>	<b>243</b>
6T	0	0	0	0	1	0	0	1
6V	1	0	0	0	10	0	0	11
7	0	2	0	0	3	0	0	5
8	90	0	0	2	189	26	111	418
9	0	1	0	0	91	6	0	98
<b>Totals</b>	<b>207</b>	<b>17</b>	<b>1</b>	<b>7</b>	<b>854</b>	<b>35</b>	<b>131</b>	<b>1252</b>

**ENFORCEMENT ACTIONS:**

**ENFORCEMENT ACTIONS AND ABBREVIATIONS:**

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

## STATEWIDE ENFORCEMENT ACTIONS BY REGION



**Enforcement Figure 1: Enforcement Actions: Statewide Enforcement Actions recorded in CIWQS 1 January 2022 through 28 February 2022**

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker 1 January 2022 through 28 February 2022**

Region	Letter – Notice	NOV	Notice of Comply	Staff Letter	Warning Letter	Total
5F	3	7	1	27	0	38
5R	0	0	0	6	3	9
5S	4	3	0	101	1	109
<b>Total</b>	7	10	1	134	4	156

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 January 2022 through 28 February 2022, there were no enforcement actions issued by the ILRP.

**Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS  
1 January 2022 through 28 February 2022**

Region	Reminder letters for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Total
<b>5F</b>	34	0	0	<b>34</b>
<b>5R</b>	0	0	0	<b>0</b>
<b>5S</b>	0	8	643	<b>651</b>
<b>Total</b>	<b>34</b>	<b>8</b>	<b>643</b>	<b>685</b>

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

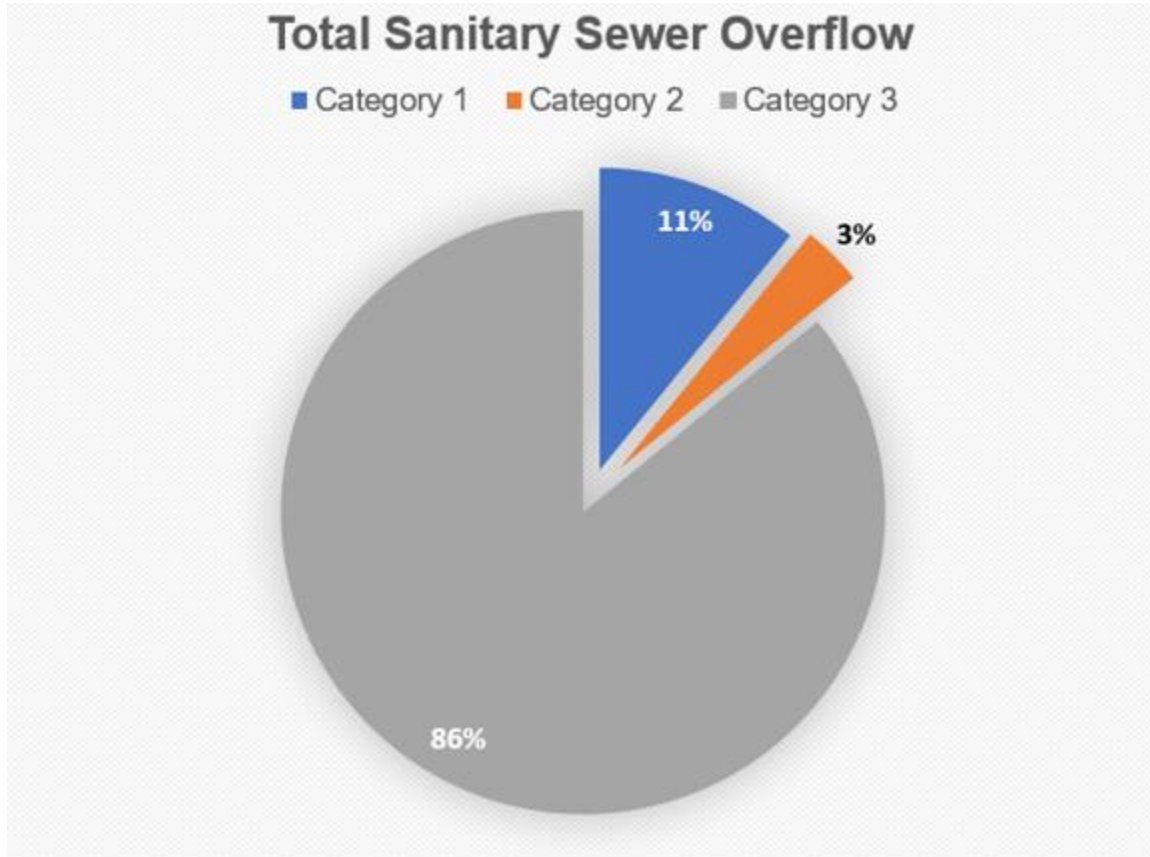
Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 January 2022 through 28 February 2022, there was one (1) reported SSO incident in which 50,000 gallons or greater spilled reached surface water.

### **SHAVER LAKE COLLECTION SYSTEM**

On January 5, 2022, the Central Valley Water Board (Water Board) was notified by the California Office of Emergency Services (Cal-OES) report # 22-0076 that a sanitary sewer overflow (SSO) of up to 172,000 gallons (maximum possible) occurred at the Fresno County CSA 31B/41-Shaver Lake collection system, located near 40793 Woodland Road in Shaver Lake, California. The overflow started on 4 January 2022 at 1029 hours and continued until January 5, 2022, at 1515 hours. The SSO was caused by a giant root ball in the main trunk line which blocked all flow to the WWTF. The blockage was removed, and the sewer line was also hydro-jetted. County staff used flow meter readings at the WWTF to better estimate the volume spilled. Based on those readings, County staff estimated that 57,000 gallons reached the creek, and 1,684 gallons was discharged to land. The spill site is located on a steep slope next to Musick Creek. All solids were removed, and the creek was sampled.



## SSO SUMMARY DATA



**Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary  
(1 January 2022 through 28 February 2022)**

For the reporting period between 1 January 2022 through 28 February 2022, there were 184 total SSO spills: 20 Category 1, 6 Category 2, and 158 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 January 2022 through 28 February 2022, Central Valley Water Board staff have received a total of **63 complaints** from phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/)

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

To date, 57 (90%) complaints have been investigated and closed or referred to other environmental enforcement agency. Investigations for 6 complaints remain ongoing.

### **ADMINISTRATIVE CIVIL LIABILITY**

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

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

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

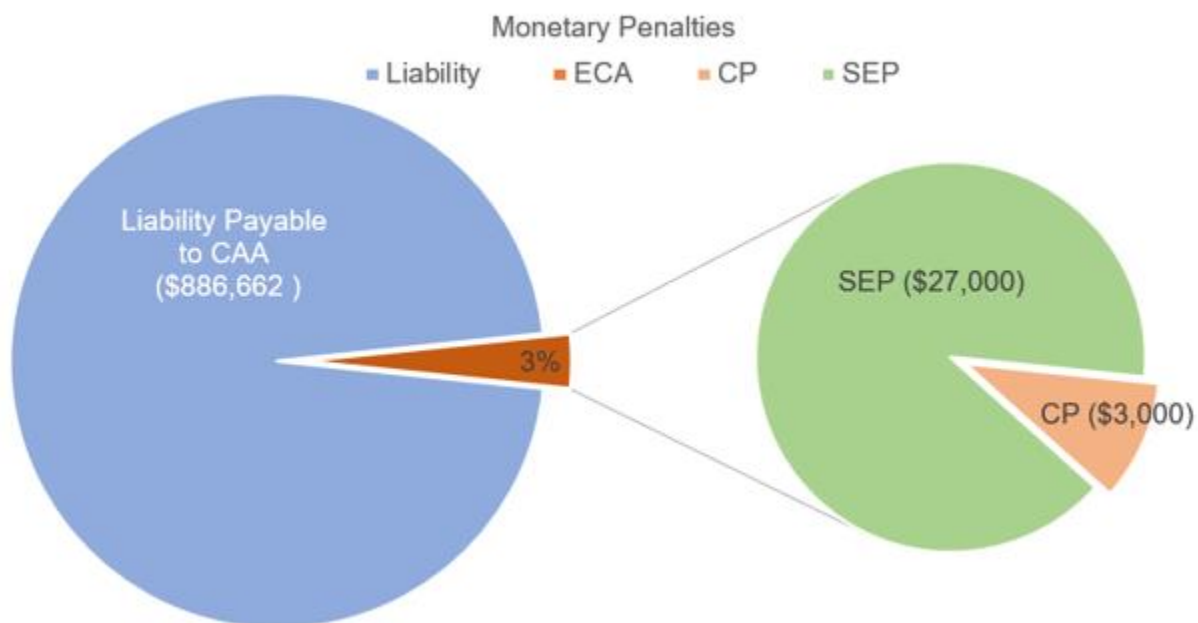
#### **SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)**

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

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

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

For the fiscal year period between 1 July 2021 through 28 February 2022, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$916,662 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$27,000 was allocated for SEP and \$3,000 was allocated for CPs (see Enforcement Figure 3 below).



**Enforcement Figure 3: Region 5 – Total Monetary Penalties issued  
1 January 2022 through 28 February 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 time period. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the [Resource Alignment Evaluation Report](#)

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

and was used to develop the FY 2021-2022 performance targets. Below is the Central Valley Water Board's Performance Measurement Summary for the 2021-2022 fiscal year.

**ENFORCEMENT TABLES 5A-5E - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY FOR FY 21/22 SECOND QUARTER (1 JULY 2021 THROUGH 31 DECEMBER 2021)**

**NPDES Wastewater – Table 5a**

<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>
Major Facilities Inspected	29	13	45%	NA	13
Minor Facilities Inspected	9	6	67%	NA	6

**NPDES Storm Water – Table 5b.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Stormwater Construction Inspections	385	226	70%	NA	268
Stormwater Industrial Inspections	195	188	99%	NA	193
Stormwater Municipal Inspections	0	32	NA	NA	25

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

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	104	69%	NA	64

**Land Disposal – Table 5d.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Landfill Inspections	113	39	41%	NA	46
All Other Inspections	23	25	117%	NA	27

**Other Programs – Table 5f.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Forest Activities Inspections	166	134	99%	NA	164
Confined Animal Facility Inspections	275	223	87%	NA	239

**ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY  
1 JULY THORUGH 31 DECEMBER 2021**

**Clean Up – Table 6.**

<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	6	1	16%	NA	NA
New SCP Sites into Active Remediation	50	15	30%	NA	NA
Cleanup Program Sites Closed	60	22	36%	NA	NA
New UST Sites into Active Remediation	25	1	4%	NA	NA
Underground Storage Tank Sites Closed	68	30	44%	NA	NA

**DELTA ACTIVITIES**

**DELTA MERCURY CONTROL PROGRAM**

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

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 and make any needed modifications to the DMCP.

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 to provide support for program implementation.

The Delta RMP Steering Committee (SC) and multiple Technical Advisory Committees (TACs) held a joint meeting on 14 March 2022. The participating TAC and SC members discussed the merits of potential study design changes for fiscal year 2022-2023 to optimize program efficiency and workload. A draft outline for the fiscal year 2022-23 workplan was presented for discussion.

The SC passed several recommendations for Delta RMP monitoring for the next two years. Recommendations included reducing monitoring for some water quality components in order to review existing data and discuss and develop long-term monitoring plans. The draft monitoring Workplan for fiscal year 2022-2023 includes extensive long-term planning meetings that will culminate with multi-year strategies and monitoring workplans to be implemented for the next few years.

Board staff met internally to review and discuss the Delta RMP Annual Report submitted on 1 February 2022 per Attachment A in the Board Resolution R5-2021-0054. This is the first Delta RMP Annual Report submitted to the Regional Board that includes monitoring data collected during the prior fiscal year. Board staff coordinated with the Delta RMP technical program manager to locate missing datasets and follow-up on publicly available data accessibility issues.

Board staff attended many TAC meetings in February, March, and April to discuss and identify solutions to existing data quality concerns and potential water quality monitoring changes for mercury, contaminants of emerging concern, pesticides and toxicity, harmful algal blooms, and nutrients.

Board staff met with the Delta RMP Board of Directors President and technical Program Manager to review a draft outline of the fiscal year 2022-23 Monitoring Workplan and

provide direction regarding this deliverable to the Executive Officer on 1 May 2022, per Board Resolution No. 2021-0054.

Board staff coordinated with State Water Board staff to resolve outstanding quality assurance issues with the fiscal year 2021-2022 Quality Assurance Project Plan. Several coordination meetings were held with the State Water Board, Delta RMP Program Manager, Regional Water Board staff, and the contractor to address quality assurance issues. The contractor agreed to provide additional quality assurance information and performance capability data.

## **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 conduct and support data collection to fill the information gaps.

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

- Board staff are meeting monthly with Delta Science Program, CDFW, and State Water Board OIMA staff to improve Delta harmful algal blooms information sharing including a workshop on harmful algal blooms hosted by the Delta Science Program towards the end of 2022.
- Board staff are part of a project team that is monitoring harmful algal bloom toxins (cyanotoxins) in water and benthic organisms. The first year of sample collection for the 2-year project was completed in August 2021. Board staff are providing project tracking, reporting, and data management.
- Analyses and an initial report for the *Microcystis* Source Tracking study were completed in December 2021. This project examines how *Microcystis* cells that overwinter in sediment contribute to harmful algal blooms that occur in summer and fall. The project is conducted by Board staff, Roberston-Bryan Inc, and Bend Genetics and is funded by the State Water Board Freshwater HAB Program and supplemental environmental project funds administered by the Delta RMP.
- Board staff met monthly with Restore the Delta and San Francisco Baykeeper to plan harmful algal bloom monitoring in the Stockton area for summer 2022. Board staff and the FHAB Program will support Restore the Delta with training and cyanotoxin analysis funds.
- Board staff approved the final report for a nutrient assessment and experimental test of cyanobacteria bloom management at Discovery Bay. The work was funded by State Water Board Division of Water Quality with USEPA 205(j) grant funds.



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

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From 12 January 2022 through 22 March 2022, there were no excursions below the water quality objective of 6 mg/L in the channel.

[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 TMDLs, are now 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 15 July 2020, Board staff sent orders under Water Code sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin River Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. Phase II MS4 permittees under the Order had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their

discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan (PMP) due to the Board by 19 August 2021.

All of the Phase I MS4 permittees have complied with the Orders and submitted Plans by 1 December 2021. Two Phase 1 MS4 Baseline Monitoring Plans have been approved by the Executive Officer.

Nine Phase II MS4 permittees have selected the baseline monitoring option. Of these nine, five Phase II MS4 permittees' Baseline Monitoring Plans have been approved. A revised draft Baseline Monitoring plan for four Lake County Phase II permittees has been received by the Board and is being reviewed.

For the PMPs, fourteen of the fifty Phase II MS4 permittees have approved PMPs. Board staff are reviewing the remaining thirty-two submitted PMPs and following up with the four 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_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html) at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/central\\_valley\\_pesticides/pyrethroid\\_tmdl\\_bpa/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/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.

The technical report for the Board's Harmful Algal Bloom Environmental Driver's study was received and reviewed by Board staff. The report will be provided upon request and the contractors will provide a presentation at the next Blue Ribbon Committee meeting.

More information can be found on the [Clear Lake Nutrient TMDL website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/) at:

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

## **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 TBUs as a priority project.

At the 18 February 2022 Board Meeting, the Central Valley Water Board unanimously adopted the proposed basin plan amendment 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 were received during the public comment period. Staff will continue to usher the BPA through the State Board, OAL, and US EPA approval process.

Board staff applied for and were awarded an AmeriCorps CivicSpark Fellow to support the TBU project, which began in September and will continue through August 2022. The Fellow has been central to creating a TBU Basin Planning Primer for the Central Valley Water Board alongside coordinating with State Water Board’s Office of Public Participation on a Statewide TBU Basin Planning Factsheet. The Fellow continues to support the TBU project by providing website updates; support developing and delivering public presentations; and thorough and courteous interactions with Tribes.

Board staff hosted a virtual Tribal Meeting and provided an update on the TBU project on 5 April 2022. The goal of this meeting is to not only update on project activities to Tribes and their representatives, but to also solicit input from Tribes on the TBU Designation Project for Board staff to incorporate into the project’s approach. Board staff intend to host two to three Tribal update meetings annually.

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

## **2021 TRIENNIAL REVIEW**

The Triennial Review consists of the Board’s solicitation of public comments on water quality issues in the Central Valley that may need to be addressed through basin plan amendments. The Triennial Review is summarized through a prioritized workplan that describes the actions the Board may take over the next three years to investigate and respond to these issues. The Board’s solicitation process includes providing an

opportunity for interested persons to provide written comments to the Board. Though the list of issues raised through the public solicitation process typically far exceeds available resources, the Triennial Review helps the Board identify and prioritize water quality issues that need to be addressed through the Basin Planning and TMDL Programs. The Board adopted the 2021 Triennial Review Workplan at the 17 February 2022 Board Meeting. Board staff have updated the Workplan with the addendum changes and have drafted a letter for submittal to U.S. EPA.

## **BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT**

The State Water Board is developing a statewide plan for control of biostimulatory (eutrophic) substances and protection of biological integrity as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California (ISWEBE Plan). The Amendment is expected to include numeric or narrative water quality objective(s) for biostimulatory substances and control options for point and non-point sources. It is anticipated to apply statewide to streams, rivers, lakes, and reservoirs. Biostimulatory substances are excess nutrients, primarily nitrogen and phosphorus, that cause detrimental aquatic plant and algal growth. Biological integrity uses indices of species diversity and abundance of small organisms and algae to assess ecological health of a water body.

Board staff are tracking the State Water Board progress and participating in State and Regional Board coordination meetings. In addition, Board staff are working directly with the Southern California Coastal Water Research Project (SCCWRP) to evaluate in detail the data and biostimulatory factor relationships in human-impacted streams, lakes, and reservoirs in the Central Valley.

A focus of SCCWRP's technical analyses are stream channels that have been deliberately modified for human use. In early April, Board staff received field training from SCCWRP staff on assessing physical habitat features of modified streams.

## **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). Revisions to the SNCP were adopted on 10 December 2020. [The 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 7 May 2021. As of 28 February 2022, Priority 1 Management Zones have collectively reported the following metrics:

**Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 28 February 2022)**

<b>EAP Metric</b>	<b>Total (all MZs)</b>	<b>Turlock/ Modesto</b>	<b>Kings</b>	<b>Kaweah</b>	<b>Tule</b>	<b>Chowchilla</b>
Inquiries/Interest/calls	<b>2,629</b>	514	651	763	675	26
Size of Management Zone		> 5000	> 5000	<1000	<1000	<1000
Testing Applications Submitted	<b>1,520</b>	607	568	182	156	7
Ineligible	<b>498</b>	112	248	32	95	11
Not Responsive	<b>202</b>	86	55	49	5	7
Wells Tested/ Scheduled/ Known	<b>724</b>	286	280	107	48	3
Above 10 mg/L	<b>459</b>	184	156	91	25	3
Average Percent over 10 mg/L	<b>63%</b>	64%	56%	85%	52%	100%
Households receiving bottled water	<b>483</b>	193	167	89	31	3
Fill Station (FS) Locations	<b>7</b>	0	3	2	2	0
FS Average Gallons per Day	<b>735</b>	0	200	173	362	0
Total Households/ equivalents	<b>851</b>					

Notice to Comply letters for the Salt Control Program were sent out on 5 January 2021. Notice of Intent forms 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. Implementation of the P&O Study Work Plan began in November 2021.

More information about the [SNCP](https://cvsalts.info), can be found at: (<https://cvsalts.info>).

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

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

Board staff continue to work with State Board staff to address questions and concerns that were raised during the 10 July 2018 hearing and initial revisions to the amendments were drafted by staff last quarter.

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/)).

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District (GWS) are held quarterly. The next meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) will be held on 20 June 2022.

During the 21 March 2022 MAA Quarterly Meeting, USBR provided an update on the USGS monitoring stations at Mud Slough and Salt Slough. The installations are pending permit approval and will likely be fully functional before the next flow season starting 1 October 2022. San Joaquin Valley Drainage Authority (SJVDA) also provided technical updates regarding Proposition 84 activities, including status of diversions in the West Stanislaus and Patterson Irrigation Districts, Turlock and Modesto Irrigation Districts quarterly spill and drainage data to the San Joaquin River informing daily salinity forecasts, and monitoring station upgrades at Westley Wasteway and Marshall Road. GWS provided technical updates regarding Proposition 84 activities, including upgrades to their sensor network, WARMF model water quality calibration, and coordination of wetland drawdown schedules of the GWS and the State refuge to improve USBR's salinity forecast at the Lower San Joaquin River compliance stations. The WARMF model is a data-driven watershed model that can readily estimate flow and salinity in the absence of measurements.

The RTMP submitted their annual report in March 2022. USBR's FY 20/21 Annual Report was submitted to the Central Valley Water Board in December 2021.

[USBR's documents](#) are available at: (<https://www.usbr.gov/mp/ptms/>).

### **CV-SALTS IMPLEMENTATION**

On 14 March 2022, Central Valley Water Board staff (Jennie Fuller) attended the Valley Water Collaborative Management Zone Meeting. The meeting provided an update on implementation of the Management Zone's Early Action Plan and a progress update on community outreach efforts.

On 23 February 2022 and 22 March 2022, Central Valley Water Board staff (Jennie Fuller) attended Chowchilla Management Zone Meetings. The meetings provided an

update on implementation of the Management Zone's Early Action Plan and a strategy session and progress update on community outreach efforts.

On 24 January 2022 and 15 February 2022 Central Valley Water Board staff, management, and Acting Chair/Vice Chair Denise Kadara attended Environmental Justice Consortium for EAP Implementation Meetings. The meetings included discussion on implementation of the Management Zone's Early Action Plans, SAFER funding of co-contaminants, and community outreach efforts.

On 16 March 2022, Central Valley Water Board staff (Jennie Fuller) attended a Management Zone Support and Coordination Meeting. The meeting provided discussion on implementation of the Management Zones' Early Action Plans and progress updates on community outreach efforts.

On 13 January 2021, 10 February 2021, and 17 March 2021, Central Valley Water Board staff, management, and Acting Chair/Vice Chair Denise Kadara attended CV-SALTS Executive Committee Meetings where topics included a status update on the Management Zones' general progress, well testing and replacement water actions, SAFER funding of co-contaminant testing, and outreach activities in the Management Zones. Also discussed was the progress of the Prioritization and Optimization Study for the Salt Control Program, regarding data gathering, evaluating analytical tools and models, and preparing a data management plan.

## **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 focuses on dry weather sources in the river reach from Sutter's Landing Regional Park to the confluence with the Sacramento River. Monitoring includes 12 sites on the American River and 1 stormwater sump. Phase 2 monitoring is scheduled to be completed in September 2022.

## **SUMMER 2021 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 2021 monitoring studies included popular recreational spots in the upper San Joaquin River and the lower Kings River watersheds. An additional microbial source tracking study was also initiated in June 2021 in the Lone Tree Creek watershed, which has historically high levels of E. coli. Staff are currently planning monitoring activities for Summer 2022.

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

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

## **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](#) at:

(<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](#) (OHHAB)

(<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 13 January 2022 to 17 March 2022 is provided in Cyanobacteria Table 1 below.

**Cyanobacteria Table 1. Bloom Summary: 13 January 2022 through 17 March 2022**

<b>Category</b>	<b>Count</b>
Number of Suspected Blooms Investigated since previous EO Report	33
Number of Confirmed Blooms* since previous EO Report	7
Number of Continuing Blooms* from previous EO Report	3
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	4
Number of Human Illnesses Reported since previous EO Report (under investigation) <sup>‡</sup>	1
Number of Animal Impacts Reported since previous EO Report (under investigation) <sup>§</sup>	2

\*Confirmed and continuing blooms are identified through response actions by Board staff or by monitoring programs conducted by other stakeholders. Informed visual confirmation from partner entities was included as a confirmation of a bloom.

<sup>‡</sup>The human case reported was not submitted to OHHABS as HAB-related due to insufficient information.

<sup>§</sup>The 2 dog deaths reported were determined to not be HAB related and thus were not submitted to OHHABS.

**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.

## **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 1 through 3, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2021/2022 (1 July 2021 through 28 February 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  
R5-2016-0076=01**

<b>Facility</b>	<b>General Order Permit Number</b>
PG&E Iron Canyon Dam	R5-2016-0076-069
California Water Service (Visalia District)	R5-2016-0076-071
Teichert Construction Phase 2B Arden Area Pipe Install	R5-2016-0076-072

Facility	General Order Permit Number
Placer County Water Agency, Auburn Tunnel Dewatering Project	R5-2016-0076-073

**NPDES PERMIT Table 2 - Municipal General Orders R5-2017-0085-01**

Facility	County	General Order Permit Number
City of Live Oak WWTP NOA Amendment	Sutter	R5-2017-0085-018

**NPDES PERMIT Table 3 - CAAP General Order R5-2019-0079**

Facility	County	General Order Permit Number
CDFW and USBR Nimbus and American River Fish Hatcheries	Sacramento	R5-2019-0079-005

## DAIRIES/CONFINED ANIMAL FACILITIES

### CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program’s FY 2021/2022 performance target for facility inspections is 275. Staff have completed 205 inspections to date and anticipates meeting the performance target.

### 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/oeffi/ddrdp/>).

# OIL FIELDS

## WASTEWATER SURFACE PONDS

Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land and evaluating closure plans for produced wastewater ponds. Major items that were completed by Staff include the following:

- Issued a Notice of Violation to Valley Water Management Company for monitoring violations. Valley Water Management Company subsequently provided available missing information.
- Conditionally approved a work plan for the closure of a pond in the Poso Creek Oil Field operated by E&B Natural Resources Management Corporation.

During January and February 2022, Staff completed ten inspections related to oil field facilities.

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 (General WDRs).

## SPILL RESPONSE

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff (Staff) were notified of nine events in January and February.

A spill of crude oil and oil field produced wastewater occurred on the McKittrick Operation facility operated by E&B Natural Resources (E&B) in the McKittrick Oil Field on 7 January. According to OES, an oil storage tank was overfilled due to an unknown reason causing the discharge of approximately 10 bbls (420 gals) of oil and 5 bbls (210 gals) of produced wastewater into the secondary containment area surrounding the source tank. On 7 January, E&B told Staff that most of the discharged fluids were contained within the secondary containment, but some fluids had escaped containment. E&B added that no ephemeral stream beds were affected. On 11 January, E&B told S that cleanup of the affected areas was complete and provided post-cleanup photos of the affected areas.

A spill of crude oil occurred on the Goforth Lease operated by Legacy Petroleum (Legacy) in the McKittrick Oil Field on 21 January. According to OES, Excessive pressure from a tank caused a pipe to fail and discharge approximately 5 bbls (210 gals) of oil into a secondary containment sump. On 21 January, Legacy consultant, Envirotech, told Staff that the discharged oil was entirely contained within the containment sump. Envirotech added that staff of the Division of Geothermal Energy Management (CalGEM) and the Department of Fish and Wildlife's Office for Spill Prevention and Response (CDFW-OSPR) inspected the spill site and cleanup of the affected areas will be done. On 4 February, Envirotech told

Staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup.

A spill of crude oil occurred on the Rosedale Unit 2 facility operated by Dole Enterprises (Dole) in the Rosedale Ranch Oil Field on 28 January. According to OES, an oil production well head failed and discharged approximately 3 bbls (126 gals) of oil into a production pad area and a brick wall. On 28 January, CalGEM told Staff that the discharged oil affected the production area surrounding the source well and no oil entered the storm basin separated from the source well by the brick wall. CalGEM added that the discharge had been stopped and the affected areas were mostly cleaned. On 28 January, Dole told Staff that no ephemeral stream beds or waterways have been affected by the spill. Dole added that all free-standing oil was recovered, and cleanup of the oil-affected soil was in progress. Staff will continue to follow-up to verify the status of site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Glide Veddar Lease operated by California Resources Corporation (CRC) in the Mount Poso Oil Field on 1 February. According to OES, cattle broke a valve on a production flow line causing the discharge of approximately 3 bbls (126 gals) of oil and 40 bbls (1,680 gals) of oil field produced wastewater into a culvert and a dry ephemeral stream bed. On 2 February, CRC told Staff that most of the discharged fluids stayed around the source well head, but some fluids flowed downhill into the affected stream bed. CRC provided photographs of the affected areas before and after cleanup and said that cleanup work was completed by Patriot Environmental Services. CalGEM and CDFW-OSPR inspected the spill site and monitored cleanup activities.

A spill of crude oil occurred on a facility operated by Chevron USA, Inc. (Chevron) in the Midway Sunset Oil Field on 6 February. According to OES, a subsurface pipe leak caused the discharge of approximately 10 to 15 bbls (420 to 630 gals) of oil to land. On 8 February, Chevron told Staff that the discharge consisted of approximately 1.5 bbls (63 gals) of oil and 8.3 bbls (349 gals) of produced wastewater that affected a dirt road. Chevron added that no ephemeral stream beds or waterways were affected by the spill and that cleanup of the affected areas was in progress. On 28 February, Chevron told Staff that cleanup of the affected areas was completed on 8 February.

A spill of oil field produced wastewater occurred on the Kelso Lease operated by Aera Energy LLC (Aera) in the Belridge Oil Field on 8 February. According to OES, a leak on a softened wastewater line discharged approximately 15 bbls (630 gals) of softened produced wastewater to land, of which, 5 bbls (210 gals) entered a dry ephemeral stream bed. Aera told Staff that the discharge consisted entirely of softened produced wastewater and no oil staining occurred, therefore, no cleanup work was necessary. Aera provided Staff with photographs of the areas affected by the spill.

A spill of crude oil occurred on the Mack Fee Lease operated by CRC in the Mount Poso Oil Field on 9 February. According to OES, a flow line failed causing the discharge of approximately 18 bbls (756 gals) of oil to land. On 9 February, CRC told Staff that no ephemeral stream beds or waterways were affected by the spill and that cleanup of the affected areas was in progress. On 11 February, CRC told Staff that cleanup of the affected areas was complete and provided photos of the affected areas before and after cleanup. CDFW inspected the spill site and monitored the cleanup activities.

A spill of crude oil and oil field produced wastewater occurred on the Metson Lease operated by Aera in the Midway Sunset Oil Field on 17 February. According to OES, a mechanical failure at a production well caused the discharge of approximately 9.6 bbls (403 gals) of oil and 81.2 bbls (3,410 gals) of produced wastewater to land. On 17 February, Staff of Aera told Board staff that the discharged fluids affected a production area and no ephemeral stream beds, or waterways were affected. Aera staff added that cleanup of the affected areas was in progress. On 1 March, Aera staff told Board staff that cleanup was complete and provided Board staff with photographs of the areas affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on the 8Z Lease operated by Chevron in the McKittrick Oil Field on 28 February. According to OES, a flow line leak caused the discharge of approximately 0.1 bbls (4.2 gals) of oil and 0.3 bbls (12.6 gals) of produced wastewater into a dry ephemeral stream bed. On 28 February, Chevron told Staff that cleanup of the affected areas was in progress and provided photographs of the spill site. Chevron stated that it will notify Staff once cleanup of the affected areas is complete and when CDFW conduct a post-cleanup inspection of the spill site. Staff will continue to follow-up to verify the status of site cleanup.

## **OIL FIELD FOOD SAFETY EXPERT PANEL**

The Central Valley Water Board staff is continuing to assist the United States Environmental Protection Agency (US EPA) in a study that examines the quality of produced water reused for irrigation in the Central Valley. Specifically, US EPA staff are looking into novel methods of identifying potential impacts associated with petroleum exploration, production, or treatment chemicals in the produced water. Central Valley Water Board staff is providing technical information related to the discharge of produced water to land for irrigation and is acting as a facilitator between the US EPA and operators regulated by the Central Valley Water Board. Central Valley Water Board staff will be present during the next sampling event anticipated to occur in the upcoming months.

## **UIC PROGRAM**

During the period from 3 January 2022 to 16 March 2022, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

### **AQUIFER EXEMPTIONS**

Midway-Sunset Tulare Aquifer Exemption – Staff and State Water Board staff met with California Geologic Energy Management Division (CalGEM) and the oil field operators (Operators) to discuss the locations of potential conduits, and the need to a conduit analysis in the proposed Aquifer Exemption areas. CalGEM provided the Operators conduit review, and Staff are reviewing the information provided.

Kern River Aquifer Exemption –Staff and State Water Board staff met with CalGEM and the operators to discuss the locations of potential conduits, and the need to a conduit analysis in the proposed Aquifer Exemption areas. CalGEM provided the Operators conduit review, and Staff are reviewing the information provided.

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

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

Mt. Poso Dorsey Area Aquifer Exemption –Staff and State Water Board staff met with CalGEM and the Operators to discuss conducting a conduit analysis. Staff and State Board staff reviewed the conduit analysis provided and provided CalGEM with questions and concerns regarding the conduit analysis. CalGEM provided a revised aquifer exemption application, and Staff are reviewing the application.

## **UIC PROJECT REVIEWS**

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Additional information was provided regarding two hydrogeological characterization reports for the Lost Hills Oil Field, and a hydrogeological characterization report was provided for the South Belridge Oil Field. Staff continue to review the information provided.

Staff received information in response a 13267 Order requiring an Operator to perform a hydrogeologic investigation in the Elk Hills Oil Field. Staff are reviewing the information provided.

Staff received project information relating to an Operator's request to conduct a water disposal project located in the Elk Hills Oil Field. This water disposal project is the third project proposed as part of the Operator's transition plan to end its current water disposal activities in the upper portion of the Tulare Formation above the Amnicola Clay. Staff are reviewing the information provided.

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

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

Staff received responses to reviews performed for proposed steam injection and waterflood projects in the Lost Hills Oil Field. Staff are reviewing the information provided.

Staff received project information relating to a request to conduct a steam injection project in the Midway-Sunset Oil Field. Staff are reviewing the information provided.



## SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Staff have received and reviewed no Well Stimulation Treatment Applications, as none have been forwarded from CalGEM.

Staff reviewed groundwater monitoring reports for: Chevron U.S.A. Inc.'s Lost Hills Oil Field; Aera Energy LLC's Lost Hills Oil Field; California Resources Corporation's Rose Oil Field operations at their Lincoln Lease; and, Seneca Resources operations in the Lost Hills Oil Field. Central Valley Water Board staff conveyed draft comments to State Water Resources Control Board staff.

Staff are currently reviewing groundwater monitoring reports for: Berry Petroleum Company, LLC's South Belridge Oil Field operations, California Resources Production Corporation's Buena Vista Nose area operations, and California Resources of Elk Hills North Coles Levee Oil Field operations at production wells 32-30 and 88-29. Staff are reviewing an Aera Energy LLC groundwater monitoring exclusion for their King Ellis Lease In the South Belridge Oil field. Staff are also continuing the review of submittals associated with the presence of groundwater mounds associated with Chevron USA Inc.'s operations in the Lost Hills Oil Field, and in the northern portion of Aera LLC's operations near monitoring well 12G1 in the South Belridge Oil Field.

## IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

### SMALL, DIVERSIFIED GROWER LISTENING SESSION

On March 3rd, Central Valley Water Board members, Sean Yang and Nick Avdis, along with the Executive Officer and staff held a listening session in Fresno to hear concerns from small, highly diversified growers. The listening session was translated to Hmong and included staff from Farm Services Agency, Department of Pesticide Regulation, California Department of Food Agriculture, UC Cooperative Extension Small Farms Advisor, Kings River Water Quality Coalition, and the Fresno County Farm Bureau. The growers stressed the importance of adequate translation of materials and on-line tools to calculate nitrogen applied based on the common types of fertilizer used. The Session also included a tour of a highly diverse farm.

The [Small, Diversified Grower Listening Session meeting agenda](#) (March 3, 2022 - ILRP Small, Diversified Grower Listening Session (ca.gov)) and

[grower discussion questions for consideration](#) ([https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/grower\\_outreach/presentations/220303\\_list\\_sess\\_questions.pdf](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/grower_outreach/presentations/220303_list_sess_questions.pdf))

can also be found on the [Irrigated Lands outreach website](#) at: ([https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/grower\\_outreach/](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/grower_outreach/)).

## **(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 April 13th meeting is the Groundwater Protection Targets

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)).

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

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

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

Board staff is tracking notification submittals and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. Between 1 January and 28 February, 892 samples have been submitted to GeoTracker by 526 members/landowners from ESJWQC, San Joaquin & Delta and the Western San Joaquin River Coalitions. Approximately 17 percent of samples exceeding the drinking water standard. During the same time period, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 1499 drinking water well exceedances staff has received 1469 notification responses. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary, for inadequate notification action.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of February 2022, there were 1,791 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,772 signed Drinking Water Notification Templates. From 1 January through 28 February staff have contacted 45 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

Region-wide, there have been 12,003 samples submitted to GeoTracker and approximately 23.48% exceed the nitrate MCL (as of 1 March 2022).

On 13 January, ILRP staff presented information on the new drinking water well monitoring requirement to members of the Sacramento Valley Water Quality Coalition at the Butte Yuba Sutter sub-watershed annual growers meeting in Gridley.

On 18 January, ILRP staff presented information on the new drinking water well monitoring requirement to members of the Sacramento Valley Water Quality Coalition at the Dixon/Solano sub-watershed annual growers meeting (webcast).

On 25 January, ILRP staff presented information on the new drinking water well monitoring requirement to members of the Sacramento Valley Water Quality Coalition at the Yolo sub-watershed annual growers meeting (webcast).

On 26 January, ILRP staff presented information on the new drinking water well monitoring requirement to members of the Sacramento Valley Water Quality Coalition at the Yolo sub-watershed annual growers meeting (webcast).

On 28 February, Robert Ditto presented information on the new drinking water well monitoring requirement at the Sacramento Valley Water Quality Coalition sub-watershed coordination meeting (webcast).

### REMINDER LETTERS FOR ENROLLMENT

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

Coalition Area	Reminder Letters sent 1 Jan – 28 Feb
Tule Basin Water Quality Coalition	35
<b>Total</b>	<b>35</b>

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

Notices of Violation (NOVs) were sent to members who did not respond to a 13260 Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed 1 Jan- 28 Feb
San Joaquin & Delta	8
<b>Total</b>	<b>8</b>

## NOTICES OF VIOLATION FOR FAILURE TO SUBMIT FARM EVALUATION AND/OR NITROGEN MANAGEMENT PLAN SUMMARY REPORTS

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

Coalition Area	NOVs Mailed 1 Jan- 28 Feb
East San Joaquin	265
San Joaquin & Delta	378
<b>Total</b>	<b>643</b>

### 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. There was an increase in late reports this year due to new member reporting requirements. In 2021 the new Farm Evaluation and Irrigation and Nitrogen Management Plan Summary Reports are required for all members. For late reports, reminder letters are issued followed by NOVs. After issuance of 13260 directive letters, Notices of Violation (NOV) are issued as needed. There is no enforcement occurring beyond NOVs at this time. 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
GW	groundwater
NCP	Nitrate Control Plan
QAPP	Quality Assurance Project Plan
RPE	Rice Pesticides Evaluation
SW	surface water
WB	Water Board

## CALIFORNIA RICE COMMISSION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/24/2021	Rice QAPP Update	Under review	
10/11/2021	RPE 2021 Update	Under review	
10/28/2021	NCP Initial Assessment	Under review	CV-SALTS requirement; revision submitted on 3/4
12/20/2021	2021 AMR	Approved	

## SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/13/21	GAR Update	Draft review sent to CG 2/14	
3/8/22	GAR Update mtg	Mtg with WB and CG staff	CG will revise report to address staff review
11/19/21	SW Monitoring Reduction Request	Approved 2/14/22	
3/1/22	Quarterly monitoring data report	Reviewed	

## SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

### ILRP ACRONYMS

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

## EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
1/15/2022	2022 Water Year MPU Addendum	Approved 2/14/22	
3/1/2022	Quarterly Monitoring Data Report	Reviewed	July 1 through September 30, 2021 monitoring period

## SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/16/21	2022 Water Year QAPP amendment	Approved 1/4/22	Revises changes to pesticide monitoring quality objectives
2/3/22	Management Plan Completion Request	Approved 3/22/22	Requests completion of various mgt plans
3/2/22	Quarterly Monitoring Data Report	Reviewed	

## WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/14/2021	MPU 2022-23	Approved	
1/18/2022	QAPP Update	Under review	
1/25/2022	Quarterly Mtg	n/a	WB & CG mtg
2/7/2022	AMPINAR	Pending review	

## GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/2021	GAR Update	Under review	CVGMC effort; provided comments on 3/15
12/13/2021	2020 AMR	Approved	

## 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
SW MPIR	Surface Water Management Practices Implementation Report

### BUENA VISTA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
09/17/2021	2020 AMR	Pending	

### CAWELO WATER DISTRICT COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/13/2021	2020 AMR	Pending	
11/30/2021	3 <sup>rd</sup> Qtr Surface Water Monitoring Data	Pending	

### KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/01/2021	2020 AMR	Under Review	
10/01/2021	2020 CGQMP ASR	Pending	
12/01/2022	3 <sup>rd</sup> Qtr Surface Water Monitoring Data	Pending	

## KERN RIVER WATERSHED COALITION AUTHORITY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/04/2021	4 <sup>th</sup> Qtr Surface Water Monitoring Data	Pending	
11/30/2021	SW MPIR	Pending	

## KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/01/2021	2020 AMR	Pending	
11/01/2021	CGQMP ASR	Pending	
12/01/2021	3 <sup>rd</sup> Qtr Surface Water Monitoring Data	Pending	

## TULE BASIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
01/06/2021	Five-Year GAR Update	Under Review	Made available for public comment on 09/08/2021

## WESTLANDS WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/01/2020	CGQMP/SQMP Amendments	Under Review	
10/01/2021	2020 AMR	Review sent 12/30/2021	Satisfied General Order requirements
12/28/2021	2022 QAPP Amendment	Under Review	



## WESTSIDE WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
09/16/2021	2020 AMR	Pending	
9/16/2021	2020 CGQMP ASR	Pending	

## OTHER PROJECTS

### GROUNDWATER PROTECTION FORMULA, VALUES, AND TARGETS

On 19 July 2021, 13 ILRP Coalitions jointly submitted proposed Groundwater Protection Values for townships within designated High Vulnerability Areas. The values represent each township's total estimated N load (from irrigated agriculture) passing below the root-zone. The Groundwater Protection Values were conditionally approved by the Executive Officer on 27 October 2021. A submittal containing proposed Groundwater Protection Targets is due by 19 July 2022. Development of the Groundwater Protection Targets is the focus of the April 13th ILRP Stakeholder Meeting.

### 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 has observed that there are several EDD data sets that have not been fully uploaded to CEDEN. In January, staff submitted a list to OIMA to reconcile those missing records and found 25 EDDs in backlog. As of March, more than half have been loaded into CEDEN.

### ILRP ACRONYMS

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

## CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/2021	5-Year Assessment Report	Review sent to CVGMC 3/15	Collaborative effort of 10 Coalitions
1/5/2022	QAPP Amendment	Under review	

## GRASSLAND BYPASS PROJECT

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
07/28/2021	13267 Technical and Monitoring Report	Approved	
12/16/2021	2022 PEP Update	Conditionally Approved	

## RICE PESTICIDES PROGRAM

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
			No updates this month

## NON-POINT SOURCE (NPS)

### CLEAR LAKE NUTRIENT CONTROL PROGRAM IMPLEMENTATION UPDATE

Board staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Responsible parties include: Lake County, Lake County MS4 Permittees, US Forest Service, US Bureau of Land Management, and Lake County Farm Bureau. Board staff has sent enforcement orders to each responsible party to obtain this information. To date, all responsible parties have submitted deliverables, which are being reviewed to determine compliance with specified load allocations. The information submitted by the responsible parties was summarized in an updated Technical Memorandum released on 22 September 2021, which is available on the Clear Lake Nutrient TMDL website.

The Board has initiated 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. Current information regarding the status of the TMDL revision can be found under the TMDL Basin Planning section of the EO Report.

The Blue Ribbon Committee for the Rehabilitation of Clear Lake met remotely on 02 December 2021. At the meeting the Committee members approved the 2021 Annual Report for the California Legislature. The next meeting will be scheduled in March 2022. Meeting details are publicly noticed by the California Natural Resources Agency.

More information regarding the Committee can be found on the Natural Resources Agency’s [Blue Ribbon Committee website](https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake) at: (https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake).

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

## 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.)

Total Enrollments by County								
County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Calaveras		27	3		63	5	4	102
Colusa		1			2		4	7

Total Enrollments by County								
County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Contra Costa					1		1	2
El Dorado		5			2			7
Fresno					6		5	11
Kern							3	3
Kings					2		1	3
Lake		136	3	7	266	3	57	472
Merced							8	8
Nevada	2	296	4		35		26	363
Sacramento							161	161
San Joaquin					1		5	6
Shasta							16	16
Sierra		1						1
Siskiyou							5	5
Solano							5	5
Stanislaus		7			3		38	48
Tulare							6	6
Yolo		17			46		3	66
Yuba							2	2
<b>Totals</b>	<b>2</b>	<b>490</b>	<b>10</b>	<b>7</b>	<b>427</b>	<b>8</b>	<b>352</b>	<b>1296</b>

## CANNABIS OUTREACH

Staff have conducted four virtual outreach events since July 2021. Two of these outreach events were in Nevada County and two virtual outreach events covering winterization requirements and annual monitoring both of which included all permissive counties in Region 5. A fifth region-wide outreach event is scheduled for March 24, 2022.

## COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

The first enrollment enforcement effort for 2021 was focused on a cluster of 12 sites in the Squirrel Creek Watershed in Nevada County. Staff issued four Notices of Violation (NOVs) in October 2021 and two second final Notice of Violations on 2/01/2022, staff will continue to follow up with progressive enforcement. The two dischargers who did not resolve the 13260 violation were referred to the enforcement team and added to the Nevada County Priority Site List for potential warrant inspections.

A second enrollment enforcement effort began late 2021 in the Poorman Creek Watershed. Staff issued 19 Notices to enroll on 12/23/2021. Staff then issued (19) 13260 Orders on 03/10/2021. Staff will continue tracking response and following up accordingly.

13260-Order Project Analysis		
Status	Total	Next Steps
Enrolled/Applied/intention to enroll	2	
No longer cultivating	6	Verified through imagery
No response	4	NOV issued 10/23/2021
No response	2	Final NOV issued 2/01/2022

## COMPLIANCE

On February 26, 2022 staff performed a compliance inspection in Lake County on the Hagoel site. This permittee cleared 252 acres, rather than 79 permitted acres. Numerous Class III watercourses were filled with loose sediment which resulted in several hundred cubic yards of discharge. Staff are working with OE on an enforcement case for direct discharge and multiple violations of the General Order.

Staff issued three Notices of Violation in February 2022 to Joseph Gustafson for separate WDIDs.

## **ENFORCEMENT**

### **INSPECTION REPORTS ISSUED IN NEVADA COUNTY:**

- Paye site, IR delivered on 01/14/2022
- Chalk Bluff site, IR delivered on 03/11/2022
- Vitello site, Follow-up IR delivered on 12/31/2021
- Southwick site, Follow-up IR delivered on 01/16/2022

### **INSPECTION REPORTS ISSUED IN SHASTA COUNTY:**

- Gilman Road site, IR delivered on 12/31/2021

### **13267S ISSUED IN NEVADA COUNTY:**

- Southwick Construction site, Notice of Violation issued 11/19/2021, potential CAO for erosional issues, slash and road through a Class III watercourse
- Linam Site, Notice of Violation issued 11/19/2021, cultivation within a Class III, grading, terracing, and discharges from watercourse crossing and access roads
- Wood site, Notice of Non-Compliance with Notice of Violation issued on 12/30/2021

### **13267S ISSUED IN SHASTA COUNTY:**

- Sisomsouk site, Notice of Non-Compliance with Notice of Violation issued on 12/30/2021

## **CLEANUP AND ABATEMENT ORDERS**

- Southwick Construction Site, Nevada County – Draft CAO complete, meeting with OE scheduled for 3/30
- Paye Site, Nevada County – Draft CAO complete, meeting with OE TBD.

## **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)).

The 2022 Grant Solicitation for the 319(h) program has ended. State Board and the Regions are in the process of reviewing grant proposals . Information on the Grant Program can be found on the [State Water Board's NPS Control Program webpage](#) at:

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

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

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

The American River Conservancy (ARC) has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. Due to high wildfire danger during the summer of 2020, the grantee failed to reach a 400-acre thinning goal. The grantee hopes that this goal can be surpassed in the 2021 season if weather conditions permit. At this time, the grantee has bid approximately 600 acres for completion during the 2021 season. ARC has secured permits for road work and a bridge removal in Greyhorse valley and thinning

Contractors mobilized equipment and began mastication work on 1 June 2021. 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 work days due to fire danger restrictions ARC requested a time extension of work completion requirements. This time extension was granted, and the grant agreement was amended on 13 October 2021. ARC will continue to work to mitigate these issues to complete the project. (Closing 3/31/2023)

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

The Western Shasta Resource Conservation District (WSRCD) has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. As a result, the grantee compiled a Final Action Plan describing 90 site-specific, road-related sediment inputs from the prioritized road assessment inventory. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works participated in on-site training that resulted in completion of two demonstration sites along Rock Creek Road and Forward Mills Road during Summer 2020. From October 2020 to May 2021, the grantee developed a construction bid package, advertised a request for competitive bid proposals, obtained public agency permits (California Department of Fish and Wildlife and Central Valley Regional Water Quality Control Board), and secured an encroachment permit from Shasta County to allow implementation of additional demonstration sites along Rock Creek Road. Time delays experienced during the competitive bid proposal and permitting processes, due to COVID-19 pandemic restrictions, prompted the grantee to request a time extension to 28 February 2022. The time extension request was approved on 15 June 2021. The additional demonstration sites were completed in July 2021. The grantee has conducted photo monitoring and as-built documentation of demonstration sites and preparation of a draft final project report. (Closing 3/31/2022)

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

The purpose of this project is to implement erosion control treatments to reduce sediment delivery to streams from Forest Service system roads, unauthorized roads, legacy skid trails, and landings within the North Yuba River Watershed. American Rivers Inc. have inventoried approximately 67 miles of roads, skid trails, and landings within the project area and had prepared an Action Plan to implement at least 15 miles of erosion control treatments. The grantee completed implementation work for the Deer Creek North Yuba River Watershed Sediment Reduction Project on 16 September 2020. Work was completed without any major delays or deviations. Analysis of pre- and post-project monitoring data has been completed and a final project inspection and certification site visit was conducted on 9/20/21. A final project report was drafted and submitted on 11/9/21. The final project report was submitted on 3/8/22. (Closing 3/31/2022)



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

The purpose of this project is to address the discharge of sediment from Upper Bidwell park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. The grantee has completed and submitted an Initial Study/Mitigated Negative Declaration for the project and a Notice of Determination is being prepared. The grantee has also completed 401 and 404 permit discussions for compensatory mitigation and are working to finalize permit applications. The grantee is also working to finalize construction bid packet that will be publicly noticed after finalization of 401/404 permitting activities. (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 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. They are anticipating it will be finalized and out for bid by April 2022 and expect work to begin in May of 2022. Due to delays in the project the grantee will be seeking a grant amendment and time extension (Closing 6/30/2023)

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

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

\*On 26 January 2022 Robert L’Heureux and Adam Laputz and Bayley Toft-Dupuy from the State Water Board’s Office of Chief Counsel, met with Yocha Dehe Wintun Nation to continue conversations to formalize the working relationship between the Central Valley Water Board and the tribe. The attendees also discussed the best methods for providing updates and which Central Valley Water Board programs are of interest to the tribe. The parties agreed to continue these meetings on a quarterly basis with the next meeting to occur in April 2022.

\*On 2 February 2022, Robert L'Heureux, Meredith Howard, Adam Laputz, and Patrick Pulupa, along with State Water Board Member Laurel Firestone, met virtually with Marcus Griswold of Calm Waters Group, Michelle Berditshevsky of Mount Shasta Bioregional Ecology Center, and Gregory Wolfen and Natalie-Forest Perez with the Pit River Tribe to discuss evaluating Medicine Lake Volcanic Basin as an Outstanding National Resource Water (ONRW).

\*On 3 February, 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 14 February 2022 Taran Sahota, Lauren Smitherman, Robert L'Heureux, and Meredith Howard met with representatives from Consumnes Culture and Waterways to discuss the Central Valley Water Board's anticipated process of moving forward with TBUs. Discussion topics included information needed for Tribes to submit designation requests, the 18 February 2022 Board Item regarding the adoption of the TBU Definitions, and an invitation to the Central Valley Water Board's 5 April 2022 TBUs Update Meeting.

On 15 February 2022, George Low, an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Greater Battle Creek Watershed Working Group (GBCWWG) meeting. The GBCWWG is generally comprised of various stakeholders such as landowners, Federal and State agencies, regional resource conservation districts and other non-governmental organizations. The purpose of the GBCWWG is to aid in facilitating, identifying, reviewing, and coordinating restoration activities within the watershed. The GBCWWG meets quarterly to discuss items of interest related to activities within the Battle Creek watershed. In efforts to track and prioritize issues of concern to the group they have developed an Issues Tracking Spreadsheet. This spreadsheet is used to highlight concerns that members of the group have and is used to prioritize, track status and resolutions of any issues identified within the group. This quarters meeting participants provided various project updates and discussed future presentation and field trip opportunities.

\*On 17 February and 22 March 2022, Janis Cooke and Karen Atkins met with Restore the Delta, San Francisco Baykeeper, San Joaquin Air Pollution Control District, and a research group to discuss coordination of several upcoming projects within the Delta, including monitoring HABS and cyanotoxins in water and examining potential for toxins to become airborne.

\*On 24 February, 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 March 2022, George Low, an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Local Emergency Planning Committee (LEPC),

Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. This month's meeting discussed membership recruitment for remaining open member positions on the committee and discussions of upcoming regional trainings. Participating agencies in attendance also provided brief agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

\*On March 15th, Sue McConnell met with representatives from several Environmental Justice Organizations to discuss elements of the ILRP, including recent submittals from agricultural coalitions and development of the Groundwater Protection Targets.

On 16 March 2022, Geoff Rader and Walter Floyd participated in the Aerojet Rocketdyne Cleanup Project Community Advisory Group (CAG) recurring meeting. The purpose of the CAG is to discuss the status of the cleanup project status, discuss new findings, and discuss paths forward with interested stakeholders. At this CAG meeting, representatives from the EPA, DTSC, and Central Valley Water Board discussed ongoing investigation and well installation effort and responded questions from stakeholders.

On 17 March 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 within the Clear Creek watershed, to improve salmon and steelhead habitat and the ecosystem on which these species depend. This month's 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 spawning surveys, juvenile monitoring, and other monitoring activities. The U.S. Bureau of Reclamation (USBR) provided CVPIA funding updates and updates on flow management operations on Clear Creek. The Western Shasta Resource Conservation District (WSRCD) provided general updates on Phase 3B Completion project.

\*On 17 March, 2022, Meredith Howard, Jennifer LaBay, Jessica Mullane, and Micaela Bush met with Sarah Ryan, Big Valley Band of Pomo Indiant, Karola Kennedy, Koi Nation of Northern California and Robinson Rancheria Band of Pomo Indians, Terre Logsdon, Scotts Valley Band of Pomo Indians, and Mike Shaver, Middletown Rancheria of Pomo Indians to discuss the status of the Clear Lake Nutrient TMDL.

\*On 23 March 2022, Meredith Howard and Karen Atkins participated in a meeting on the implementation of Assembly Bill 617 focused on harmful algal blooms that included representatives from Restore the Delta, San Joaquin Valley Air Pollution Control District, California Air Resources Board, 3 members of the public, and students from University of California, Berkeley.

## **GENERAL UPDATES TO THE BOARD**

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

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (representing publicly-owned treatment works or POTWs) and Central Valley Municipal Separate Storm Sewer System agencies (MS4) to develop a work plan in response to State Water Board's Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan. The POTW/MS4 group have developed the Central Valley Pilot Study for Monitoring Constituents of Emerging Concern Work Plan (Work Plan) based on feedback from the State Water Board and Central Valley Water Board staff, which was approved by the Delta Regional Monitoring Program (Delta RMP) in July 2018.

Data for the two sampling events that have been completed for Year 2 have been shared with the Delta RMP CEC Technical Advisory Committee and are being processed. Additional sampling events for spring 2022 are being planned, and the Year 2 Data Report is projected to be completed in late 2022. The CEC Technical Advisory Committee is also preparing to work on the study design for Year 3. The timeline to finalize the study design and Quality Assurance Project Plan by 1 May 2024 is being discussed in the Steering Committee and CEC Technical Advisory Committee.

### **EMERGENCY RESPONSE ACTIVITIES**

On 6 January 2022 George Low, an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Local Emergency Planning Committee (LEPC), Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee.

This month's meeting discussed membership recruitment for remaining open member positions on the committee. The meeting also included discussions of upcoming regional trainings, and a presentation from Andrea Rioux, Licensed Clinical Social Worker/Consultant regarding training services she can provide similar to the First

Responder Crisis Team training she currently offers. 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.

## **PERSONNEL AND ADMINISTRATION**

### **STAFFING UPDATES – JANUARY 1, 2022 – FEBRUARY 28, 2022**

#### **PROMOTIONS:**

Jessica Mullane – Senior Environmental Scientist (Sup.)

#### **NEW HIRES:**

Hannah Dailey – Engineering Geologist

Nhat Nguyen – Engineering Geologist

Adriana Ross – Staff Services Analyst

Jess Van Diest – Water Resource Control Engineer

Cruz Romero – Water Resource Control Engineer

Vicki Thao – Office Technician (Typing)

Francine Fua – Water Resource Control Engineer

Mitch Messmer – Water Resource Control Engineer

Xueyuan (Helen) Yu – Senior Water Resource Control Engineer (Spec.)

Lowell Cottle – Environmental Scientist

Kyle Wright – Engineering Geologist

Jack Rayl – Engineering Geologist

#### **SEPARATIONS:**

Quinn Little – Scientific Aid

Emily Tuggle – Seasonal Clerk

Elisabeth Kennedy – Scientific Aid

Tyler Thomas – Scientific Aid

#### **SUMMARY OF POSITIONS:**

**Total Authorized Positions:** 276.2

**Total Vacant Positions:** 19.2

## Sacramento

Authorized Positions: 152.5

Vacancies: 9.2

## Fresno

Authorized Positions: 74

Vacancies: 7

## Redding

Authorized Positions: 49.7

Vacancies: 3

## TRAINING UPDATES – JANUARY 1, 2022 – FEBRUARY, 28 2022

<b>Class Title</b>	<b>Number of Attendees</b>
2022 California Plant and Soil Conference	1
8-Hour HAZWOPER Refresher	9
ASBOG Exam Review Webinar Course	1
Basic Acquisition Certificate	1
Can We Talk Intro to the Complexity of Communication	1
CASQA Quarterly Meeting	1
Chemistry Refresher TECH027	15
Comm104 Oral Presentation of Technical Information	1
Communicating Effectively in Complex Organizations	5
Customer Service Strategies	2
Developing your Individual Development Plan (IDP)	8
Editing	4
EEO: Workplace Rights and Responsibilities	1
EET - Water Resources and Environmental Depth Webinar (On-Demand)	1
Field Safety Training	3
GEOS 471: Field Geology	1
Groundwater Pollution and Hydrology	1
HSTY108 8-Hour HAZWOPER Refresher	1
Influence, Persuade, Nudge: The Science of Getting People to Take Action	5
Introduction to GIS	7
Introduction to Public Records Management	2
Leadership for the Gov't Supervisor - LGS 20	1
Live Online Course: FE Civil	1
Microsoft Excel Level 1	3

<b>Class Title</b>	<b>Number of Attendees</b>
Microsoft Excel Level 2	1
Microsoft Excel Level 3	13
Microsoft SharePoint Training	1
MSHA Annual Refresher	3
Overcoming Compassion Fatigue and Burnout PROF144	1
PFAS Transport, Fate and Remediation in Soil and Groundwater	9
Pitch-perfect Communication in a Virtual World COMM103	2
Preparatory Course for the California Specific Exam	1
Procurement Training	1
Quality Assurance: General Quality Assurance 101 TECH034	4
Ray Taber Foundation Drill Class	2
Roles and Responsibilities of the Superior Analyst	2
State Water Resource Control Board: Sexual Harassment Prevention and Other EEO Issues (SB1343 Compliance)	1
Taber Drill Class Training	2
Trust & Legitimacy: Understanding Implicit Bias and its Impact on Workplace Diversity and Trust in the Community WLP 202	1
Vapor Intrusion Training	22
WLP104 'Can we talk...?': An introduction to the Complexity of Communication.	1
Working and Leading in Complex Organizations	1
Working and Thriving in Complex Organizations - WLP 105	1

## **FISCAL UPDATE**

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

## **CONTRACTS**

### **OPERATIONAL SUPPORT SERVICES**

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
20-012-150	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	6/18/2021	6/30/2023	\$60,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
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
21-060-150	Microbiology International	Rancho Cordova Autoclave Service and Repair	10/13/2021	6/30/2022	\$9,275
22-025-150	Pitney Bowes	Postage Machine Maintenance and Service (Rancho, Redding & Fresno)	7/1/2022	6/30/2024	\$12,194
22-026-150	Department of Water Resources	Drone Aerial Surveillance (Rancho Cordova Office)	TBD	6/30/2025	\$60,000

#### **WATER QUALITY STUDY/PLANNING**

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
19-003-150-1	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	9/27/2019	03/31/2022	\$510,000
19-004-150	34 North	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	11/21/2019	3/31/2022	\$89,900
19-033-150-1	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	9/30/2022	\$525,000



<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/2020	11/30/2023	\$250,000
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
21-026-150	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

## **FUTURE BOARD ACTIVITIES**

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

### **JUNE 2022 BOARD MEETING**

#### **NPDES PERMITTING**

- Sierra Pacific Industries Shasta Lake Division Renewal
- North Valley Regional Recycled Water Program Renewal
- Bear Valley Water District WWTF Renewal
- City of Angels WWTP Renewal
- City of Redding Clear Creek WWTP Renewal
- City of Chico WWTP Renewal
- City of Nevada City WWTP Renewal
- City of Auburn WWTP Permit Recission (Permitted under MGO)
- City of Modesto WQCF Permit Recission (Permitted under MGO)

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

- Maintenance Dredging General Order

### **AUGUST 2022 BOARD MEETING**

#### **NPDES PERMITTING**

- Shasta CSA #17 Cottonwood WWTP Renewal

### **OCTOBER 2022 BOARD MEETING**

#### **NPDES PERMITTING**

- CA Dept of Parks and Rec Malakoff Diggins Historic Park Renewal
- Municipal General Order Renewal
- Linda County Water District WWTP Renewal
- Tehama CSD #1 Mineral WWTP Renewal

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

### **NPDES PERMITTING**

- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Boeing GWETS Renewal
- Mountain House CSD WWTP Amendment
- City of Tracy Renewal
- RMK Mine Renewal
- American Valley CSD WWTP Renewal

## ATTACHMENT A

### ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 January 2022 through 28 February 2022

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	98	53.3%
Debris-General	33	17.9%
Grease Deposition (FOG)	17	9.2%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	7	3.8%
Debris-Rags	6	3.3%
Operator Error	4	2.2%
Debris-Wipes/Non-Dispersables	3	1.6%
Other (specify below)	3	1.6%
Pipe Structural Problem/Failure	3	1.6%
Debris from Lateral	2	1.1%
Pump Station Failure-Controls	2	1.1%
Flow Exceeded Capacity (Separate CS Only)	1	0.5%
Inappropriate Discharge to CS	1	0.5%
Pipe Structural Problem/Failure - Installation	1	0.5%
Pump Station Failure-Mechanical	1	0.5%
Pump Station Failure-Power	1	0.5%
Vandalism	1	0.5%
<b>Total</b>	<b>184</b>	<b>100.0%</b>

#### Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 January 2022 through 28 February 2022

Office	Category 1	Category 2	Category 3	Total
5F	2	1	9	12
5R	1	0	4	5
5S	17	5	145	167
<b>Total</b>	<b>20</b>	<b>6</b>	<b>158</b>	<b>184</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

### Category 1 Sanitary Sewer Overflow (SSO) Spills– 1 January 2022 through 28 February 2022

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	County of Fresno	Fresno Co 41-Shaver Lake CS	878704	Fresno	Yes	58,684	57,000	1/4/2022	Root Intrusion
5F	Reedley City	Reedley, City Of CS	879454	Fresno	Yes	75	33	2/12/2022	Pump Station Failure-Power
5R	Portola City	Portola CS	878746	Plumas	Yes	3,750	3,750	1/6/2022	Debris-Rags
5S	California Department of Corrections and Rehabilitation	Folsom State Prison CS	878673	Sacramento	Yes	3	3	1/5/2022	Debris-General

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	El Dorado Irrigation District	Deer Creek CS	878632	El Dorado	Yes	730	730	1/2/2022	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	879416	El Dorado	Yes	2,730	2,730	2/13/2022	Root Intrusion
5S	El Dorado Irrigation District	El Dorado Hills CS	878780	El Dorado	Yes	912	912	1/8/2022	Grease Deposition (FOG)
5S	El Dorado Irrigation District	El Dorado Hills CS	879602	El Dorado	Yes	944	944	2/22/2022	Flow Exceeded Capacity (Separate CS Only)
5S	Placerville City	Hangtown Creek CS	879001	El Dorado	Yes	2,640	2,445	1/24/2022	Grease Deposition (FOG)
5S	Placerville City	Hangtown Creek CS	879401	El Dorado	Yes	30	20	2/12/2022	Debris-General
5S	Roseville City	Dry Creek CS	879558	Placer	Yes	75,023	47,438	2/18/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878717	Sacramento	Yes	46	7	1/6/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878833	Sacramento	Yes	770	535	1/17/2022	Grease Deposition (FOG)

## ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	879331	Sacramento	Yes	15	3	2/7/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	879352	Sacramento	Yes	15	1	2/8/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	879360	Sacramento	Yes	30	19	2/8/2022	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	879394	Sacramento	Yes	47	40	2/10/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	879533	Sacramento	Yes	3,620	648	1/21/2022	Debris-General
5S	Sacramento Regional CSD	Sacramento Regional CS	879874	Sacramento	Yes	4,725	2,867	2/22/2022	Operator Error
5S	Vacaville City DPW	Easterly CS	878968	Solano	Yes	2,658	1,560	1/19/2022	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)