9-10 JUNE 2022

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

PATRICK PULUPA, EXECUTIVE OFFICER



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SUCCESS STORIES

UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

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

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

SACRAMENTO

QUICK N SAVE, 2330 SANTA FE AVENUE, HUGHSON, STANISLAUS COUNTY

The Quick N Save is an active retail petroleum fueling facility. The county reported an unauthorized petroleum release in February 2006 due to impacted soil samples collected beneath the petroleum dispensers, which were replaced in December 2003. Environmental and Geological Solutions (EGS) investigated the release by installing ten groundwater monitoring wells. The county reported a second unauthorized release in August 2017 due to a gasoline release caused by a contractor damaging a gasoline product line in May 2017. EGS continued to monitor natural attention in soil and groundwater. In the 23 March 2021 Closure Evaluation Report, EGS concluded that the Site meets the criteria for closure under the Low-Threat Underground Storage Tank Case Closure Policy and poses a low threat to human health, safety, and the environment. Petroleum concentrations in soil and groundwater are stable, unlikely to adversely affect human health, and will continue to naturally degrade. EGS recommended case closure and Central Valley Water Board staff concurs with EGS that closure of the case under the Low-Threat Underground Storage Tank Case Closure *Policy* is appropriate. Central Valley Water Board staff closed the case on 5 May 2022. (MJD)

M&M MINI-MART, 1085 EAST STREET, WOODLAND, YOLO COUNTY

The Site is currently not in use but was formerly a gas station and convenience store. In March 1999, W.A Craig, Inc. excavated and removed three underground storage tanks (USTs) from the Site. Soil samples beneath the USTs contained petroleum

hydrocarbons, indicating a release of gasoline occurred. From 2000 to 2019, Geocon collected soil, soil vapor, and groundwater samples from multiple borings, excavations, and groundwater monitoring wells to assess subsurface conditions across the Site and at nearby locations. Geocon operated an ozone sparge remediation system from February 2011 to February 2012, converted it to an air sparge system, and operated it from February 2012 to December 2012. Remediation, along with continued natural attenuation (natural degradation) of the petroleum hydrocarbons, reduced the environmental impacts from the release to levels that no longer threaten human health or waters of the State. The residual petroleum hydrocarbon plume is defined, stable and is expected to attenuate below established water quality objectives without migrating beyond its current extent. Geocon concludes that residual petroleum in soil and groundwater is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurs with Geocon that closure of the case under *Low-Threat Underground Storage Tank Case Closure Policy* is appropriate. Central Valley Water Board staff closed the case on 5 May 2022. (MJD)

FRESNO

WESTSIDE GROCERY,16553 AVENUE 168, WOODVILLE, TULARE COUNTY

The Site is currently vacant and appears to be abandoned. Three petroleum USTs, dispensers, and associated piping were removed in 1988. Analytical results of soil samples indicated elevated concentrations of gasoline constituents.

A 1998 soil investigation indicated the contamination extended to 15 feet below the dispenser island, however, petroleum hydrocarbon contamination was not encountered in a 2015 investigation. The Site was referred to the Central Valley Water Board for regulatory oversight in 2016. The Central Valley Water Board staff concurred the Site was eligible for Closure and a Notice for public comment was issued in February 2018. In 2022 investigative waste was removed from the Site.

Based on the information available in case files and the GeoTracker database, Staff concluded that the case meets the closure criteria contained in the *Low-Threat Underground Storage Tank Case Closure Policy*. Groundwater was not affected by this release. Any remaining petroleum hydrocarbons should continue to naturally attenuate/degrade and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. All technically and economically feasible cleanup has been completed. Staff closed the case on 6 April 2022. (Micheale Easley)

MR. GAS TEXACO, 40135 HIGHWAY 41, OAKHURST, MADERA COUNTY

The Site is currently an operating service station. A release was discovered during 1999 when three USTs, dispensers, and associated piping were removed. Analytical results of soil samples indicated elevated concentrations of gasoline constituents. Approximately 180 cubic yards containing an undetermined hydrocarbon mass were removed for offsite disposal. A series of investigations was conducted from 1999 through 2015 was conducted to delimit the extent of gasoline constituents in soil and groundwater monitoring was conducted. A soil vapor extraction (SVE) and air sparge (AS) system operated from 2006 to 2010 removed 14,145 pounds of volatile gasoline constituents. An ozone sparge system with SVE removed 714 pounds of gasoline constituents during 2014 to 2015.

Hexavalent chromium was detected in the monitoring network but was determined to be naturally occurring. The onsite supply well was sampled from 2001 through 2017. MTBE was detected but had not exceeded detection limits since 2009. Supply wells in the area were also sampled. Prior to closure, Staff informed the local agency of historic gasoline and hexavalent chromium detections and recommended that the onsite well be monitored for volatile organic compounds (VOCs) and hexavalent chromium. Staff concluded that the case meets the closure criteria contained in the *Low-Threat Underground Storage Tank Case Closure Policy*. Any remaining petroleum hydrocarbons should continue to naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. All technically and economically feasible cleanup has been completed. Staff closed the case on 20 April 2022. (Khalid Durrani)

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

FINAL NO FURTHER ACTION DETERMINATION, FORMER USTS 10-313, 10-406, AND 10-494 THROUGH 10-496, BEALE AIR FORCE BASE, YUBA COUNTY, CALIFORNIA

In April 2022, the Federal Cleanup Unit issued a final No Further Action (NFA) determination for three underground storage tank (UST) cases at Beale Air Force Base (AFB). The UST cases are part of Air Force Site ST022 representing base wide USTs at Beale AFB and are being managed under the Leaking Underground Fuel Tank (LUFT) program. UST 10-313 was a 1,150-gallon tank which stored heating oil for Building T-6852. The date of removal of UST 10-313 is unknown. UST 10-406 was a 600-gallon diesel tank located near B and 16th Streets. Following UST removal in 1992, Building 2149 was subsequently constructed over the former UST location. USTs 10-494

through 10-496 were 12,000-gallon gasoline tanks located near the corner of 30th and A Streets. The three USTs were installed in the 1940's and removed prior to 1962. Conditional NFA for these three cases was granted in January 2018 based on fulfillment of requirements in the low-threat UST case closure policy (LTCP). In October 2021, associated groundwater and vadose zone monitoring wells were decommissioned and investigation-derived waste (IDW) was disposed of offsite as non-hazardous waste. Following completion of decommissioning activities documented in *Final Site ST022 Well Decommissioning Completion Report*, a final NFA determination was granted for all three cases in April 2022. Site closure (SC) is now achieved for Beale Air Force Base Site ST022.

FINAL NO FURTHER ACTION DETERMINATION, SHERMAN ISLAND DEHYDRATOR STATION 1, PACIFIC GAS AND ELECTRIC COMPANY, SACRAMENTO COUNTY, CALIFORNIA

In December 2021, the Federal Cleanup Unit issued a No Further Action determination for the Pacific Gas and Electric (PG&E) Sherman Island Dehydrator Station 1 (Site). Operations at the Site began in 1963 and PG&E utilized the Site to remove condensate liquids from natural gas and odorize natural gas prior to commercial distribution. Subsurface impacts from petroleum hydrocarbons, likely associated with previous Site operations, were identified during the initial site assessments between 1997 to 1998. In addition to the initial site assessments, site investigation and remediation activities included an additional site characterization in 2001 and soil delineation investigation in 2017. Remedial actions at the Site primarily included the excavation of approximately 1.053 tons of contaminated soil in 2018. Groundwater monitoring also occurred at the Site pursuant to a Monitoring and Reporting Program between 2001 to 2019. As a condition of closure and due to residual petroleum impacts remaining on Site, PG&E agreed to place a land use covenant on the property to protect human health and the environment. To further mitigate exposure risks to residual impacts remaining off-Site, Central Valley Water Board staff coordinated with the adjacent property owner, the California Department of Water Resources (DWR), to obtain a signed acknowledgement letter. This letter assures DWR's cooperation with PG&E and the Central Valley Water Board should soil disturbance be necessary in the impacted area. PG&E still owns the property and will continue to operate the Site as a natural gas transmission and odorization facility.

FINAL NO FURTHER ACTION DETERMINATION, SOIL OPERABLE UNIT SD-57, MATHER AIR FORCE BASE, SACRAMENTO COUNTY, CALIFORNIA

During routine case management activities, Site Cleanup Program staff identified a site on GeoTracker that was previously closed but the status was never changed. This site, SD-57, was an active soil vapor extraction (SVE) site in the former Strategic Air Command (SAC) area at Mather Air Force Base. SVE was implemented in August 1997 to remove trichloroethene (TCE) from shallow and deep soils to prevent migration to groundwater. Decommissioning of the SVE system was documented in a 22 December 2017 report. The vadose portion of the site is now considered closed with institutional controls to restrict disturbances of impacted soils with residual TCE contamination. The

Air Force conducts annual inspections to verify institutional controls are upheld and reports those inspection results to Central Valley Water Board staff for review. Cleanup of groundwater beneath the site is still on-going and is recognized as "Site 57".

STAFF RECOGNITION

SUPERIOR ACCOMPLISHMENT AWARDS

At the 21-22 April 2022 Board Meeting, Executive Officer Pulupa presented a Superior Accomplishment Award to the following staff:

Employee: Deborah Behnke

Unit: Program Support Location: Redding Office Title: Seasonal Clerk

Supervisor: Lynn Coster, Supervising Senior Environmental Scientist

The Central Valley Water Board's Redding office management team is pleased to select Debbie Behnke for the Superior Accomplishment Award. Debbie is a Seasonal Clerk in the Redding office and is being recognized for her outstanding work performance. Debbie joined the Central Valley Water Board in May 2017 and works closely with the Storm Water / Water Quality Certification Unit.

Debbie does an excellent job at juggling multiple tasks and various demands of her time. Her work is well-organized and accurate. She is extremely efficient and dependable and gives 100% to the job.

Ambitious and quick to learn, Debbie is always willing and eager to take on new challenges and tasks. Over the past five years, she has gained in-depth knowledge of the program and has developed standard operating procedures for the tasks that she performs. Self-taught, Debbie is extremely knowledgeable in creating ADA-compliant documents and provides assistance not only to Redding staff, but the other offices, as well. To ensure that program performance measures are being met, she maintains a tracking spreadsheet for Water Quality Certification applications and permits. Among many other tasks, she does an outstanding job at regularly updating Access and CIWQS databases, drafting CEQA comment letters, posting CEQA documents on the State Clearinghouse website, and providing administrative support to the unit and other office staff. Her knowledge is quite impressive, despite not having a science background.

Debbie's positive attitude, willingness to help others, and vast knowledge are greatly valued. She is most deserving of recognition for her work and her contributions to the Central Valley Water Board, and we are grateful she is part of the Redding team!

EMPLOYEE RECOGNITION AWARDS APRIL 2022 THROUGH MAY 2022

At the 25 April 2022 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

Employee: Bryan Botsford Unit: Confined Animals Location: Sacramento Office: Title: Engineering Geologist

Supervisor: Daniel Gamon, Senior Engineering Geologist

Bryan is a Range D Engineering Geologist and licensed Professional Geologist within the confined animals' regulatory unit in Rancho Cordova. Bryan consistently manages to juggle competing priorities and delivers high quality documents while also helping with ongoing administrative duties such as maintaining the CIWQS database with up-to-date discharger information and assisting with many of our recurring mass mailings.

Recently, Bryan responded to a small non-permitted bovine facility that received multiple citizen complaints. He reached out and started working with the discharger and ultimately was able to have them prevent an off-property discharge of wastewater, thereby avoiding formal enforcement. By showing strong negotiation skills and working patiently with the discharger, this outcome benefited all parties and was protective of water quality.

Bryan demonstrated initiative by taking the lead in the identification and confirmation of multiple violations associated with a dairy that has a long history of regulatory avoidance and non-compliance. This enforcement related support required Bryan to dive-in and further implement our enforcement policy. By taking the lead in preparing this case, helped build a "deeper bench" within the Unit for enforcement support efforts moving forward.

Recently, Bryan efficiently and effectively responded to a citizen's complaint about a discharge of wastewater from cropland to rural residential neighborhood. The complaint originated from an active and concerned citizen that has been upset with the nearby dairy. Bryan investigated promptly, communicated calmly and professionally with the citizen, prepared a thorough inspection report, and then issued the dairy a Notice of Violation, all of which was forwarded to the citizen. This prompt and professional response has helped us stay in front of this ongoing citizen's concern while providing an outstanding example of our commitment to protecting water quality and responding to public concerns in a professional and timely manner.

Bryan was also the technical lead during our recent Water Code 13267 Order regarding our Ponds in Groundwater efforts. He took a lead role in reviewing and approving piezometer installation plans to monitor the depth to groundwater at various dairies, reviewed and responded to groundwater data submittals, and provided technical review of other submittals.

Bryan has managed all these priority tasks while also assisting with a major priority task - the review and approval of construction plans to build 16 digesters within the Central Valley Region. Recently, Bryan volunteered to accept the extra workload from an outgoing engineer.

Based on all the above-mentioned accomplishments it is with great pleasure and gratitude we recognize Bryan as a valued and respected member of this Unit. His commitment and dedication to our mission is very much appreciated.

Employee: Chris Jimmerson

Unit: Irrigated Lands Regulatory Program

Location: Sacramento Office: **Title**: Environmental Scientist

Supervisor: Susan Fregien, Senior Environmental Scientist

This Employee Recognition Award goes to Chris Jimmerson for his very efficient and effective technical review of laboratory method validation packages for a commonly used pesticide known as imidacloprid. The Irrigated Lands Regulatory Program identified a need for laboratory analyses that can quantify low-level concentrations of imidacloprid that may be impairing aquatic life in Central Valley water bodies. Chris readily took on this new project, which involved much collaboration with State Board's Quality Assurance Officer and staff at the Environmental Laboratory Accreditation Program (ELAP). Chris gave clear and responsive direction to the laboratories that submitted method validation packages. Chris also developed a comprehensive checklist for reviewing the method validation packages.

Many thanks to Chris for guiding the review of the new imidacloprid methods. His skill and knowledge in data management and quality assurance methods has been invaluable in this and many other projects in the ILRP.

Employee: Houa Yang
Unit: 401 Cert/Dredging Unit
Location: Sacramento Office:

Title: Scientific Aid

Supervisor: Stephanie Tadlock, Senior Environmental Scientist

Houa is a Scientific Aid in the Water Quality Certification and Dredging Unit. Houa has been with the Waterboards since April 2013. Houa is an integral part of the day-to-day workflow within the permitting section. Houa provides the following key contributions to the unit and MS4 program, including:

- Processing incoming 401 applications and indexing all projects into ECM;
- Assigning WDID numbers to each incoming project;
- Processing all data entry into CIWQS for the Unit;
- Intake processing and drafting response letters for staff review and signature for all CEQA documents in public circulation requiring Region 5 comments;

- Overseeing Illicit Discharge and Spill Response correspondence, investigations, and reporting under the MS4 Program;
- Filing notices with the State Clearinghouse in a timely manner after a board determination has been made; and
- Assisting in filling documents in the file room after the board determination has been issued.

Houa exhibits a high level of organization, provides excellent stakeholder customer service, and is willing to assist in solving problems and finding answers in a fast and efficient manner. She has been extremely helpful in helping find innovative ways to make the unit more organized and efficient with its extremely high workload. Her knowledge and willingness to go above and beyond makes her a valued member of the Unit and the Regional Board. For this and many other reasons, she is deserving of the Employee Recognition Award.

Employee: Sara Gevorgyan

Unit: Confined Animals

Location: Sacramento Office:

Title: Scientific Aid

Supervisor: Daniel Gamon, Senior Engineering Geologist

Sara Gevorgyan has been working for the Unit since 1 July 2021. She was an impact employee immediately. She was given the lead role as responder to Public Record Act (PRA) requests and learned the procedures quickly, which helped overwhelmed staff resources be freed up to focus on other duties such as field inspections. She has added value by learning to gather and transmit large file PRA packages and upload them electronically by making them available to the requester using CVWB's FTP technology. Some of these PRA requests have had her gathering over 1000 facilities herd information, meticulously confirming owner and operator contact information, and gathering publicly available documents such as Reports of Waste Discharge and Waste Management Plans that were in various directories and analog or digital formats.

She has also helped get the Unit up to date with record keeping and administrative tasks such as Annual Report herd size data entry into CIWQS and calculating next invoice cycle fees. Also, when there were billing issue, she supported Unit and Fee Unit staff with investigations to determine if the owner reported the herd information incorrectly in their Annual Reports or had a change in ownership or operator status and did not properly inform CVWB. Sometimes this required her to generate Form X's which helps the Fee Unit cancel and/or issue a new invoice to the proper owner or operator. This requires learning business processes and procedures such as how to operate in the CIWQS database. Sara learned quickly and helped the Unit get caught up on backlogs that had occurred after the former Unit Supervisor retired and the former Scientific Aid resigned for another position.

Sara has also had to learn and support several large mass certified mail letters mail out events which require learning advanced Excel macros and other techniques, while also integrating data from multiple platforms and formats. She also supported a large mass

mail out of noncertified Dairy Nitrate Exceedance Letters to over 600 addressees, which was completed in a timely manner.

Sara has been recently updating the Unit's records into a more user-friendly digital format and has been going through each individual 2020 annual report to verify and/or update their mailing address, updating annual report list of people who did not turn in Annual Reports, or who turned them in late and updating the Unit's internal Master Dairy List with current information, which will create efficiencies and expedite invoicing and mass mail outs in the future.

Based on all the above-mentioned accomplishments it is with great pleasure and gratitude we recognize Sara as a valued and respected member of this Unit. Sara's commitment and dedication to our mission is very much appreciated.

Employee: Sammantha Soto

Unit: Nonpoint Source Planning and Assessment Unit

Location: Sacramento Office: **Title**: Environmental Scientist

Supervisor: Jennifer LaBay, Senior Environmental Scientist

Sammantha Soto is an Environmental Scientist who joined the Nonpoint Source Planning and Assessment Unit in September 2021. Her current position focuses on salinity issues in the Central Valley and Integrated Report.

Prior to joining the NPS Unit, she was in the Pesticide TMDL Unit and focused on the implementation of the Central Valley Pyrethroid TMDL and Control Program. In fall 2021, there were vacancies in the Pesticide TMDL Unit and Sammantha enthusiastically stepped in to continue the implementation of the Pyrethroid TMDL and Control Program and to oversee review of deliverables under the program. There were many monitoring and management plans to review and track, discussions with management, and communication with dischargers which Sammantha took on with a positive and willing attitude. Sammantha also trained a Scientific Aid to help with the workload.

For this and so much more, Sammantha is very deserving of the Employee Recognition Award.

Employee: Ernesto Garcia Unit: 401 Cert/Stormwater Location: Fresno Office

Title: Water Resource Control Engineer

Supervisor: Matt Scroggins, Senior Water Resource Control Engineer

Ernesto has worked in this unit for little under a year. He has a great attitude and is hard working. Recent tasks that Ernesto has completed are:

A 401 certification for Oaks Basin;

- Tentative WDR for Dredge/Fill project for the June Board Meeting;
- Inspection Report and Notice of Violation for violations of the Construction Stormwater General Permit and construction work involving unpermitted fill activity in an ephemeral blueline watercourse;
- Two inspections for compliance with the Construction Stormwater General Permit for two housing tracts in Fresno County;
- A draft 401 cert to be reviewed by management; and
- A dredge/fill waiver letter for a small Caltrans project.

On average, he reviews over 13 Construction Stormwater Permit Notices of Termination and Changes of Information on a weekly basis. He handles nearly all the Public Records Act requests for the unit. Ernesto keeps his supervisor appraised of his tasks, exhibits great customer service skills, and is a pleasure to work with. We are very fortunate to have Ernesto working in the unit and he is well deserving of this recognition

At the 16 May 2022 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

Employee: Matt Richter

Unit: San Joaquin-Delta NPDES Permitting **Title:** Water Resource Control Engineer

Supervisor: Danielle Goode

Matt Richter is an Engineer in the San Joaquin-Delta NPDES Permitting Unit. He is being recognized for his outstanding work performance in the NPDES permitting section. Matt joined the NPDES Permitting Section in January 2021 during full pandemic shutdown; however, he has quickly come up to speed in the program over the last year and a half. Matt adapts quickly to new concepts and guidance and asks great questions. He is resourceful, a self-starter, able to juggle many tasks at once, works well with colleagues and dischargers, and is always willing to take on a new work challenge.

One of Matt's particularly impressive feats since starting in NPDES permitting has been maintaining the roll of permit contact for the Limited Threat General Order. In between regular NPDES permit renewals, he finds time to address calls and emails from many construction discharge-related inquiries and applicants. The needs of these applicants and inquiries can be challenging to navigate at times. However, Matt is always timely and professional in his responses and produces thorough technical reviews of the applications before issuing a Notice of Applicability for permit coverage.

Matt is also an active part of the NPDES tools/templates team, utilizing his skills with Microsoft Excel to help maintain the section's technical permitting resources. He is also working toward his Professional Engineering license, most recently passing the 8-hour portion of the exam.

His work ethic, dependability, and self-starter attitude make him a valuable member of our unit and the organization; therefore, he is incredibly deserving of the Employee Recognition Award.

Employee: Karen Atkins

Unit: SWAMP

Title: Environmental Scientist **Supervisor:** Anne Walters

Dr. Karen Atkins is a highly valued member of the SWAMP unit and is being recognized today for her efforts leading the region's Freshwater Harmful Algal Bloom (FHAB) program.

Karen hit the ground running when she started last summer during the busiest FHAB season the Board has ever had, with over three times the number of FHAB incident reports than the previous year. Karen did a phenomenal job responding to these reports and coordinating with stakeholders and other agencies to conduct monitoring and post signage for the public when needed. Karen also established a prioritized incident response plan for our region. In addition, Karen has been developing partner monitoring efforts with groups like Restore the Delta and California State Parks to expand the capacity of the FHAB program. Karen has assisted with the development of monitoring plans and has provided hands-on training to SWAMP staff and stakeholders alike. Her expertise in benthic FHABs has been a huge asset to the program. Most recently, Karen did a great job making her first presentation to the Board in April, providing an update on the FHAB program.

Karen's tireless efforts and strong commitment are the driving factors behind the success of our region's FHAB program. We are very fortunate to have Karen working at the Central Valley Water Board and she is well deserving of this award.

ENFORCEMENT

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

ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil

Liability (ACL) Orders and Complaints) that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

Enforcement Table 1 – Central Valley Enforcement Orders 1 March 2022 through 30 April 2022

Action Date	Agency	County	Notes
3/4/2022	Surcease Mine	Butte County	CAO R5-2022-0701 was issued because the Facility's tailing pond and the mill ruin contain heavy metals that pose a threat to both human health and aquatic life. Staff has determined that surface water immediately downstream of tailing dam has been impacted by the storage of waste solids at the site and from waste seepage at the base of the tailing dam. CAO was needed to ensure that the discharger completes investigation of the site, submit monitoring and technical reports to ensure the site is in compliance. The Order will require the discharger to investigate the site and develop and implement a remedial action plan. In addition, the CAO will require the Discharger to submit a Draft Remedial Action Plan to the Executive Officer for approval.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 March 2022 through 30 April 2022. From a statewide perspective, Region 5 is responsible for 19% of the enforcement actions tracked in CIWQS during this period including 100% of all CAOs, 22% of all VERs, and 50% of all NOVs.

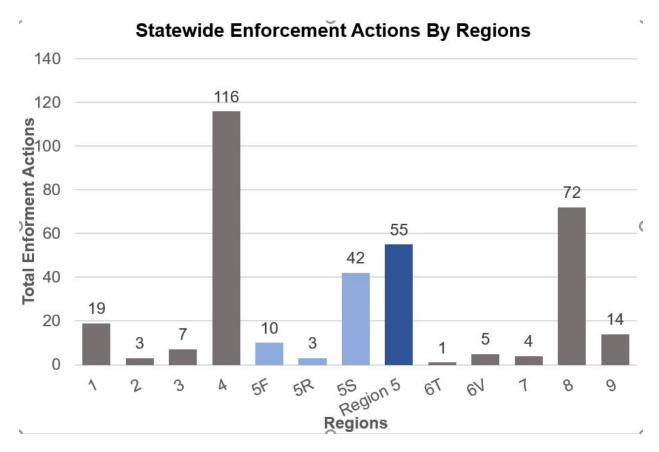
Enforcement Table 2 – Statewide Enforcement Actions in CIWQS 1 March 2022 through 30 April 2022

Region	NNC	ACL	CAO	EPL	NOV	SEL	TSO	UNK	VER	Total
Region	1						130	_	7	
1	1	2	0	0	8	0	1	0	1	19
2	0	1	0	0	2	0	0	0	0	3
3	0	1	0	1	3	2	0	0	0	7
4	57	5	0	34	8	0	2	0	10	116
5F	0	0	0	0	6	0	0	0	4	10
5R	0	0	1	0	2	0	0	0	0	3
5S	0	0	0	0	32	2	0	0	8	42
R5 Total	0	0	1	0	40	2	0	0	12	55
6T	0	0	0	0	1	0	0	0	0	1
6V	0	0	0	0	0	5	0	0	0	5
7	0	2	0	0	2	0	0	0	0	4
8	11	1	0	14	10	8	0	3	25	72
9	0	0	0	0	6	7	1	0	0	14
Total	69	12	1	49	80	24	4	3	54	296

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
- CDO Cease and Desist Action
- EPL Expedited Payment Letter
- ACL Administrative Civil Liability
- NTC Notice to Comply



Enforcement Figure 1: Enforcement Actions – Statewide Enforcement Actions recorded in CIWQS 1 March 2022 through 30 April 2022

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

Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker 1 March 2022 through 30 April 2022

Region	CAO	Letter – Notice	Staff Letter	Verbal Communication	Total
5F	1	0	10	1	12
5R	0	1	4	0	5
5 S	0	0	15	1	16
Total	1	1	29	2	33

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 March 2022 through 30 April 2022, a summary of those enforcement actions is included in Table 4, below.

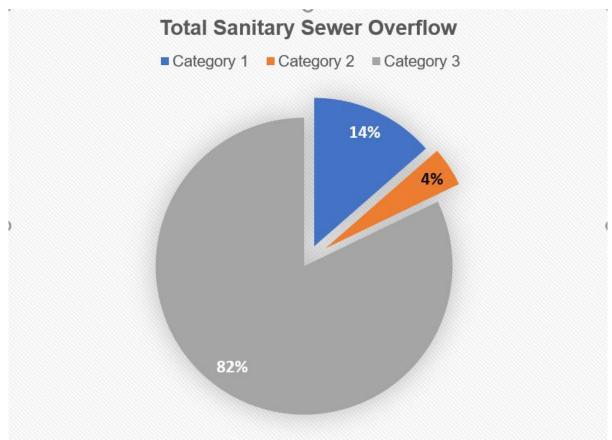
Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS 1 March 2022 through 30 April 2022

Region	Reminder letters for Failure to Enroll in ILRP	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	Reminder Letter for Failure to Submit Annual Reports (Nitrogen Management Plan Summary Report)	Total
5F	113	0	0	113
5 S	0	50	770	820
Total	113	50	770	933

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 March 2022 through 30 April 2022, a summary of those enforcement actions is included in Table 4, below.

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 March 2022 through 30 April 2022, there was no reported SSO incident in which 50,000 gallons or greater spilled reached surface water.



Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary
1 March 2022 through 30 April 2022

Category 1 - Spills of any volume that reach surface water

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

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

For the reporting period between 1 March 2022 through 30 April 2022, there were 140 total SSO spills: 19 Category 1, 6 Category 2, and 115 Category 3 spills.

ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOs including the current Monitoring and Reporting Program (MRP) can be found at the State Water Board's Sanitary Overflow Reduction Program

(https://www.waterboards.ca.gov/water issues/programs/sso/index.html).

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

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 March 2022 through 30 April 2022, Central Valley Water Board staff have received a total of 63 complaints from phone calls, emails, and from the CalEPA Complaint database. To date, 57 (90%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining 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)

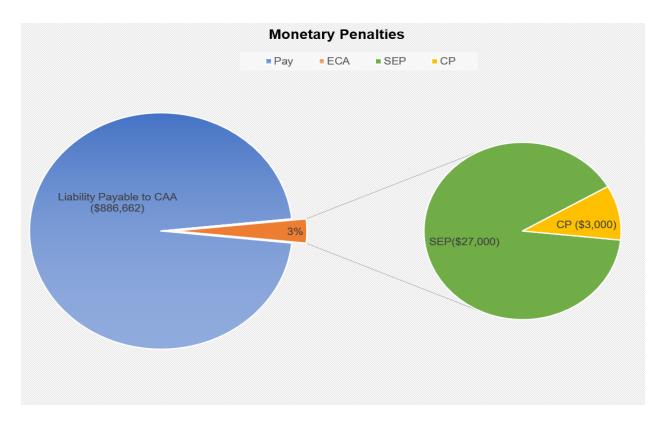
The Regional Water Boards may allow a small community publicly owned treatment works that has a financial hardship to spend an amount equivalent to the MMP toward a CP that is designed to address problems related to the mandatory minimum penalties (MMP) violation(s) and bring the discharger back into 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 voluntary choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger. State provides a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger.

ENHANCED COMPLIANCE ACTION (ECA)

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



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 can be found at:

(https://www.waterboards.ca.gov/about us/docs/resource alignment report.pdf)

ENFORCEMENT TABLES 5a-5e - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY FOR FY 21/22 (1 JULY 2021 THROUGH 30 APRIL 2022)

Table 5a - NPDES Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	24	21	88%	NA	21
Minor Facilities Inspected	11	8	73%	NA	8

Table 5b – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	299	91%	NA	351
Stormwater Industrial Inspections	195	217	114%	NA	223
Stormwater Municipal Inspections	0	21	NA	NA	25

Table 5c – Waste Discharge to Land Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	102	113	122%	NA	124

Table 5d - Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	77	55	87%	NA	67
All Other Inspections	29	26	97%	NA	28

Table 5e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	267	151	%	NA	194
Confined Animal Facility Inspections	275	265	107%	NA	294

Enforcement Table 6 – Region 5 Cleanup Action Summary 1 July through 30 April 2022

Table 6 – Clean Up

Programs	Original Target			Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	4	5	125%	NA	NA
New SCP Sites into Active Remediation	34	17	71%	NA	NA
Cleanup Program Sites Closed	40	26	65%	NA	NA
New UST Sites into Active Remediation	17	4	24%	NA	NA
Underground Storage Tank Sites Closed	49	34	69%	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). The first Review Panel evaluated seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges.

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

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

On 24 February 2021, Board staff conducted a virtual public workshop and CEQA scoping meeting. Representatives from various stakeholder groups, including wastewater, stormwater, irrigated agriculture, as well as state and federal agencies attended and provided verbal comments. Tribal representatives were also present. Four entities submitted written comments that will be considered in the development of the DMCP Review and are included within the administrative record. Board staff are continuing to review and incorporate more recent data and methodologies, including information provided in the control and characterization studies, to determine 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 <u>DMCP website</u> here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project s/delta_hg/)

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings to provide support for program implementation. Staff also met internally to coordinate and facilitate the use of Surface Water Ambient Monitoring Program funds for Delta RMP monitoring in Fiscal Year 2022-2023 and beyond.

The Steering Committee (SC) held a meeting on 6 April 2022. The participating SC members met to discuss the draft Fiscal Year 2022-2023 Delta RMP draft workplan (workplan). The workplan includes water quality monitoring for current use pesticides,

toxicity, and mercury. It also includes a continuation of some harmful algal bloom sampling and long-term planning for nutrients monitoring in the delta. For constituents of emerging concern (CECs), the draft workplan incorporates data analysis for the last two years of monitoring and planning for a third and final year of monitoring for the current study design. Long-term planning meetings for nutrients and CECs will produce multi-year strategies and monitoring workplans to be implemented for the next few years. The SC also heard an update from the Delta RMP implementing entity on the status of Fiscal Year 2019-2020 mercury monitoring and discussed when the data will be made publicly available.

Board staff met internally to review and discuss the Delta RMP Annual Workplan submitted on 1 May 2022 for EO approval. This is the first Delta RMP Annual Workplan submitted to the Regional Board per Attachment A in the Board Resolution R5-2021-0054. 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 Technical Advisory Committee meetings in April, May, and June to discuss and identify solutions to data quality concerns for mercury, contaminants of emerging concern, pesticides and toxicity, harmful algal blooms, and nutrients.

Board staff coordinated with State Water Board staff to resolve outstanding quality assurance issues with the draft Fiscal Year 2022-2023 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. The due date for the draft fiscal year 2022-23 QAPP was extended from 1 May 2022 to 1 June 2022 to resolve these outstanding concerns.

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, California
 Department of Fish and Wildlife, and State Water Board Office of Information
 Management and Analysis staff and others to improve Delta harmful algal
 blooms information sharing including a workshop on harmful algal blooms hosed
 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.

- Board staff completed sample collection for the *Microcystis* Source Tracking study in April 2022. 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, Robertson-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 is working with other agency staff to plan meetings of the Interagency Ecological Program Water Quality and Phytoplankton Project Work Team. This multi-agency work team serves as a form for information exchange and project review. At its second meeting on 29 April 2022, the work team discussed comparability of past phytoplankton data and proposed HABs monitoring in Franks Tract.

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 22 March 2022 through 4 May 22, there were no excursions below the water quality objective of 5 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 <u>TMDL Control Program</u> can be viewed here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project s/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 California Water Code Sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin River Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. Phase II MS4 permittees under the Order had the option to either 1) submit Baseline Monitoring Plans by 28 February 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 the Phase I MS4 permittees have complied with the Orders and submitted Plans by 1 December 2021. 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 was reviewed by Board staff and feedback has been discussed with the permittees.

For the PMPs, fourteen of the fifty Phase II MS4 permittees have approved PMPs. Board staff have reviewed 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 at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project s/central_valley pesticides/pyrethroid tmdl bpa/index.html).

CLEAR LAKE NUTRIENT TMDL

Board staff began initiating the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and projects in the watershed, including the Board's Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Implementation of the existing TMDL will continue.

The technical report for the Board's Harmful Algal Bloom Environmental Driver's study was received and reviewed by Board staff. The report is available upon request on the Clear Lake TMDL website.

More information can be found on the Clear Lake Nutrient TMDL website at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/)

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 hosted a virtual Tribal Meeting and provided an update on the TBU project on 5 April 2022. The goal of this meeting was to not only update Tribes and their representatives on project activities, 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 and are polling Tribes on preferred timing to ensure maximum Tribal participation.

Board staff applied for and were awarded an AmeriCorps Civic Spark Fellow to support the TBU project, which began in September and will continue until 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 courteous interactions with Tribes.

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 <u>Tribal Beneficial Uses</u> website at:

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

2022 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 submitted the Triennial Review to US 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 bio stimulatory factor relationships in human-impacted streams, lakes, and reservoirs in the Central Valley. The contract for SCCWRP's work for the Board was extended with additional funds and will continue through 2024.

REGIONAL TEMPERATURE CRITERIA DEVELOPMENT

The 2018 Triennial Review identified Temperature Criteria and Objectives as a priority project to develop regionally applicable temperature criteria for the Central Valley. The

report completed in FY18/19 that assessed the EPA Region 10 temperature criteria applicability for the Central Valley recommended the development of regionally based criteria. Board staff are coordinating with Division of Water Rights on next steps to identify studies needed for developing a long-term approach to address unresolved temperature criteria questions and uncertainties. Board staff participated in a three-part discussion with Water Rights staff and various stakeholders, including state and federal agencies and academic researchers, on temperature studies. Water Rights has been developing contracts with scientific research partners to implement the studies developed during those meetings and continue to coordinate with Board staff.

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). 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)

As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities began on 7 May 2021. As of 30 April 2022, Priority 1 Management Zones have collectively reported the following metrics:

Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 30 April 2022)

EAP Metric	Total (all MZs)	Turlock/ Modesto	Kings	Kawe ah	Tule	Chow- chilla
Inquiries/Interest/calls	3,151	572	793	879	869	38
Size of Management Zone		> 5000	>5000	<1000	<1000	<1000
Testing Applications Submitted	1,818	761	669	195	179	14
Ineligible	598	151	296	42	105	4
Not Responsive	222	93	57	44	8	20
Wells Tested/ Scheduled/Known	862	394	298	107	55	8
Above 10 mg/L	525	210	164	119	27	5
Average Percent over 10 mg/L	61%	53%	55%	111%	49%	63%
Households receiving bottled water	547	230	175	102	33	7
Fill Station (FS) Locations	7	0	3	2	2	0
FS Average Gallons per Day	726	0	245	137	344	0
Total Households/ equivalents	910					

Notice to Comply letters for the Salt Control Program were sent out on 5 January 2021. Notice of Intent forms are due on 15 July 2021. The Prioritization and Optimization Study Work Plan was approved by the Central Valley Water Board in March 2021.

More information about the **SNCP**, 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 guarter.

More information on the <u>Municipal and Domestic Supply (MUN) Beneficial Use Project</u> can be found at:

(https://www.waterboards.ca.gov/centralvalley/water issues/salinity/mun beneficial use/).

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

USBR's documents are available at

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

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT

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

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

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_s heet/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 2022 RECREATIONAL BENEFICIAL USE ASSESSMENTS

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using E. coli as an indicator of fecal pollution. The 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 completed in 2021 in the Lone Tree Creek watershed, which has historically high levels of E. coli. Staff are currently planning monitoring activities for Summer 2022 which include sampling for E. coli in the Lower Kings River, Lower Kaweah River, and Upper San Joaquin River. A microbial source tracking study will be conducted in the Squirrel and Wolf Creek watersheds in Nevada County.

Online maps and more information on these SWAMP projects are available at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2021_r bua/).

CYANOBACTERIA BLOOMS UPDATE

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

As part of the FHAB program, a California Harmful Algal Blooms Portal

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

was developed and is located on the California Water Quality Monitoring Council's My Water Quality webpage.

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

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

When human or animal illnesses or deaths are reported, an interagency HAB illness team investigates each case. The team is comprised of the California Department of Public Health, the Office of Environmental Health and Hazard Assessment, the State Water Board, and the California Department of Fish and Wildlife. Using case specific information, the team determines whether each case may have been caused by HABs or whether the incident was likely due to other causes. This process includes interviewing the reporting party, consulting the doctor or veterinarian, conducting follow-up sample collection, and/or analyzing carcasses. Cases that are suspected to be HAB related are reported to the Centers for Disease Control and Prevention (CDC) One Health Harmful Algal Bloom System.

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

More information on how freshwater <u>HAB related illness</u> tracking in California can be found at:

(https://mywaterquality.ca.gov/habs/hab-related illness.html)

SPRING 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 18 March 2022 to 6 May 2022 is provided in Cyanobacteria Table 1.

Cyanobacteria Table 1. Bloom Summary: (18 March 2022 through 6 May 2022)

Category	Count
Number of Suspected Blooms Investigated since previous EO Report	45
Number of Confirmed Blooms* since previous EO Report	12
Number of Continuing Blooms* from previous EO Report	8
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	8
Number of Human Illnesses Reported since previous EO Report (under investigation)	0
Number of Animal Impacts Reported since previous EO Report (under investigation)	0

^{*}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.

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. The USFS and BLM have prepared documents establishing best management practices to ensure water quality protection during activity implementation. Tribal consultations were initiated in 2020 and are ongoing. 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.

GRANT

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 CalFire. Work resumed on August 25th and construction implementation has since been completed. The grantee conducted a post construction review, completed As-built road logs, and developed a mid-slope road treatment plan.

The grantee is currently in the process of collecting final survey date 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 30 April 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

Facility	General Order Permit Number
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
Placer County Water Agency, Auburn Tunnel Dewatering Project	R5-2016-0076-073
Yosemite Greens Dewatering Project	R5-2016-0076-074

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
City of Willows WWTP	Glenn	R5-2017-0085-022

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
CDFW Mokelumne River Fish Hatchery	San Joaquin	R5-2019-0079-007

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program's FY2021/2022 performance target of 275 confined animal facility inspections, including milk cow dairies, bovine feedlots, and poultry facilities, has been met.

ALTERNATIVE MANURE MANAGEMENT

Staff are taking an active role as Technical Advisory Committee members in the review of several Alternative Manure Management Practices (AMMP) proposals submitted to the California Department of Food and Agriculture (CDFA) under a competitive grant application process. Funded by California Climate Investments, AMMP provides financial assistance for the implementation of non-digester manure management practices in California, resulting in reduced greenhouse gas emissions. Accordingly, all new practices must achieve methane emission reductions at California dairy and livestock operations through non-digester management practices. CDFA received 62 applications between March and May 2022 for a total funding request of approximately \$42 million. Grant awardees are anticipated to be announced in August. Information about the 2020 Alternative Manure Management Program projects is available at www.cdfa.ca.gov/oefi/AMMP/.

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. Diary digesters are a renewable technology that uses livestock manure to produce methane, which is a renewable source of electrical energy generation and transportation fuel. The latest grant awardees were announced in September 2020, resulting in 12 applicants receiving approximately \$16.5 million. Information about the Dairy Digester Research and Development Program projects is available at:

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

OIL FIELDS

WASTEWATER SURFACE PONDS

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

- Issued Notice of Applicability Order No. R5-2017-0036-023 to Legacy Petroleum LLC for the discharge of produced water to a pond in the McKittrick Oil Field.
- Issued a Notice of Termination to Caleco LLC for coverage under General Order Two for two inactive ponds on the Essex Lease in the Midway Sunset Oil Field.
- Issued a Notice of Violation to Caleco, LLC for failure to submit a Monitoring Well Installation and Sampling Plan for a pond on the Sheehan Lease in the Midway Sunset Oil Field.
- Conditionally approved a work plan for the closure of two ponds in the Midway Sunset Oil Field that were operated by Ballard Oil, Inc.
- Issued a Notice of Violation to KB Oil & Gas, Inc. for failure to submit produced wastewater sampling data for the discharges into seven ponds in the Cymric Oil Field.
- Issued a Notice of Violation to Griffin Resources, Inc. for ponds on the CCMO-17
 Lease in the Pyramid Hills Oil Field for failure to submit sampling data for three
 inactive ponds, submit the results of a hydrogeologic assessment for an active pond,
 and for failure to comply with a Cleanup and Abatement Order's Monitoring and
 Reporting Program

During March and April 2022, Staff completed eleven inspections related to oil field facilities. Staff is preparing reports for these inspections and finalizing reports from inspections performed previously, which will subsequently be sent to the Operators for record keeping.

Staff continues to review monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality.

SPILL RESPONSE

Central Valley Water Board staff (Staff) responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Staff was notified of 11 events in March and April.

A spill of crude oil and oil field produced wastewater occurred on the Hill Property facility operated by Berry Petroleum (BRY) in the Belridge Oil Field on 1 March. According to OES, a leak on a header caused the discharge of approximately 20 barrels (bbls) (840 gals) of oil and produced wastewater into the surrounding area. The OES report also stated that no ephemeral stream beds or waterways have been affected by the spill. On 1 March, BRY staff told Staff that the discharged fluids pooled within the production facility and no stream beds have been affected. BRY staff added that cleanup of the affected areas was in progress. On 4 May, BRY staff told Staff that cleanup of the

affected areas was completed and provided post-cleanup photographs of the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the Cypress Field facility operated by TRC in the Midway Sunset Oil Field on 2 March. According to OES, a human error caused the overfilling of a tank resulting in the discharge of approximately 50 bbls (2,100 gals) of oil and 450 bbls (18,900 gals) of produced wastewater into an unlined secondary containment sump and a dirt road. On 2 March, TRC staff told Staff that no ephemeral stream beds or waterways have been affected by the spill. TRC staff added that cleanup of the affected areas was in progress and that staff of Department of Fish and Wildlife's Office for Spill Prevention and Response (CDFW-OSPR) responded to the incident. On 23 March, TRC staff told Staff that cleanup of the affected areas was completed by a contractor and provided pre- and post-cleanup photographs of the affected areas.

A spill of crude oil occurred on the Bremer facility operated by Sentinel Peak Resources California (SPRC) in the Midway Sunset Oil Field on 6 March. According to OES, a valve failure on a storage tank caused the discharge of approximately 50 bbls (2,100 gals) of oil into the walled secondary containment area surrounding the source tank. On 7 March, SPRC staff told Staff that all the discharged fluids were contained within the designated containment area and no ephemeral stream beds, or waterways were affected. SPRC staff added that all freestanding fluids were recovered, and cleanup was underway. On 23 March, SPRC staff told Staff that cleanup of the affected areas was completed and provide pre- and post-cleanup photos of the affected areas.

A spill of crude oil occurred on the Bremer facility operated by SPRC in the Midway Sunset Oil Field on 10 March. According to OES, a flow line failure caused the discharge of approximately 2 bbls (84 gals) of oil into an ephemeral blue line. On 10 March, SPRC staff told Staff that a biologist was onsite for pre-cleanup assessment and that staff of CDFW-OSPR responded to the incident. On 11 March, SPRC staff told Staff that cleanup of the affected areas was completed and provided post-cleanup photos. On 23 March, SPRC staff told Staff that staff of CDFW-OSPR signed-off on the site cleanup. SPRC staff provide pre- and post-cleanup photos of the affected areas.

A spill of oil field produced wastewater occurred on the 25B Lease operated by California Resources Corporation (CRC) in the Buena Vista Oil Field on 15 March. According to OES, a human error caused damage to a valve resulting in the discharge of approximately 13 bbls (546 gals) of oil field produced wastewater into a dry ephemeral stream bed. On 15 March, CRC staff told Staff that the discharge occurred from a vacuum truck. CRC staff added that staff of CDFW-OSPR were on the way to inspect the spill site. On 23 March, CRC staff told Staff that cleanup of the affected areas was complete and staff of CDFW-OSPR approved the site cleanup based on post-cleanup photographs provided by CRC. CRC staff provided Staff with pre- and post-cleanup photographs of the spill site.

A spill of crude oil and oil field produced wastewater occurred on the Section 26C facility operated by Chevron USA, Inc. (Chevron) in the Midway Sunset Oil Field on 1 April.

According to OES, leaks in two lines caused the discharge of approximately 16 bbls (672 gals) of oil and 4 bbls (168 gals) of produced wastewater into an ephemeral stream bed. On 1 April, Chevron staff told Staff that there was a biologist onsite conducting a pre-cleanup assessment. Chevron staff added that staff of CDFW-OSPR were enroute to inspect the spill site. On 2 May, Chevron staff told Staff that cleanup of the affected areas was completed and provided pre- and post-cleanup photographs of the affected areas. Chevron staff said that no site cleanup sign-off was required by CDFW-OSPR.

A spill of crude oil and oil field produced wastewater occurred on the Section 32 Cogeneration facility operated by Aera Energy LLC (Aera) in the Coalinga Oil Field on 6 April. According to OES, a leak on a produced wastewater line discharged approximately 13 bbls (546 gals) of oil and 120 bbls (5,040 gals) of produced wastewater into a containment area. On 6 April, Aera staff told Staff that the discharged fluids were entirely contained within an unlined secondary containment sump and no ephemeral stream beds, or waterways were affected. Aera staff added that cleanup of the affected sump was in progress. On 7 April, Aera staff told Staff that cleanup of the affected sump was completed, and all excavated waste was collected into roll-off bins and will be properly disposed of. Aera staff provided pre- and post-cleanup photos of the affected areas.

A spill of crude oil occurred on the Berry and Ewing facility operated by BRY in the Midway Sunset Oil Field on 6 April. According to OES, an operator mistakenly left a valve on a sampling box open causing the discharge of approximately 25 bbls (1,050 gals) of oil into the secondary containment surrounding the source tank. On 6 April, BRY staff told Staff that the discharged fluids were entirely contained within the secondary containment of the source tank and no ephemeral stream beds, or waterways were affected. BRY staff added that cleanup of the affected area was in progress. On 11 April, BRY staff told Staff that cleanup of the affected areas was completed on 8 April and provided pre- and post-cleanup photos of the affected areas.

A spill of crude oil occurred on the Wilson Oil Lease operated by Sequoia Exploration (Sequoia) in the Edison Oil Field on 6 April. According to OES, an agricultural tractor struck a pipe riser causing the discharge of approximately 3 bbls (126 gals) of oil into dirt and the shoulder of a road. On 6 April, Sequoia staff told Staff that no ephemeral stream beds or waterways were affected. Sequoia staff added that cleanup of the affected areas was completed by recovering the freestanding fluids, excavating oil-affected soil, and properly disposing of waste. Sequoia staff provided Staff with pre- and post-cleanup photographs of the affected areas.

A spill of oil field produced wastewater occurred on the Section 29 facility operated by Aera in the Coalinga Oil Field on 11 April. According to OES, a leak in a wastewater line discharged approximately 150 bbls (6,300 gals) of produced wastewater into an ephemeral stream bed. On 11 April, Aera staff told Staff that the discharge consisted entirely of produced wastewater with no oil. Aera staff added that the leaking line was isolated, and cleanup was in progress. Staff inspected the spill site on 12 April to ascertain the conditions of the affected areas and observe cleanup operations. On 14

April, Aera staff told Staff that cleanup of the affected areas was completed and provided post-cleanup photographs of the affected areas.

A spill of a caustic sodium solution occurred on the Section 29 facility operated by Aera in the Coalinga Oil Field on 19 April. According to OES, a pump seal failure caused the discharge of approximately 105 bbls (4,410 gals) of sodium hydroxide solution into a secondary containment. The OES report also stated that approximately 0.3 bbls (12.6 gals) of the discharge escaped containment but the pump was shut off and cleanup was underway. On 19 April, Aera staff told Staff that cleanup of the affected areas was completed and provided post-cleanup photographs of the affected areas.

OIL FIELD FOOD SAFETY

The Central Valley Water Board is continuing to assist the United States Environmental Protection Agency (USEPA) in a study that examines the quality of produced water reused for irrigation in the Central Valley. Specifically, USEPA staff are looking into novel methods of identifying chemicals associated with petroleum exploration, production, or treatment in produced water. On 4-5 April 2022, Staff traveled to Kern County to oversee the collection and shipping of produced water, groundwater, and background water samples for the USEPA Study. Produced water samples were collected at facilities that are currently regulated under the Central Valley Water Board for the reuse of produced water for irrigation. Since the inspection, Staff has also continued to work with USEPA staff as a mediator and provided technical information related to the discharges, as needed.

UIC PROGRAM

During the period from 16 March 2022 to 11 May 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. Staff reviewed the information and provided State Water Board with comments.

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. Staff reviewed the information and provided State Water Board with comments. Staff and State Water Board staff met with CalGEM to discuss Water Board's review.

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 reviewed the information and provided CalGEM with its initial review.

Staff issued seven no objection letters and memorandums for UIC projects in the Lost Hills, Cymric, McKittrick, South Belridge, and Midway-Sunset Oil Fields.

Staff sent three letters and memorandums requesting information for UIC projects in the Elk Hills, Kern River, and Midway-Sunset Oil Fields.

Staff received responses to reviews performed for proposed steam injection and water disposal projects in the Cymric and Fruitvale Oil Fields. Staff are reviewing the information provided.

Staff received project information relating to requests to conduct a steam injection projects in the Lost Hills and South Belridge Oil Fields. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

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

Staff reviewed groundwater monitoring reports for several operators in the Buena Vista Nose, South Belridge, and Lost Hills Oil Field. Central Valley Water Board staff conveyed draft comments to State Water Resources Control Board staff.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

(ILRP) QUARTERLY STAKEHOLDER MEETINGS

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The focus of the April 13th meeting was development of the Groundwater Protection Targets. The next stakeholder meeting is scheduled for July 20th.

More information regarding the stakeholder meetings can be found on the Central Valley Water Boards' <u>ILRP – Stakeholder Meetings and Workgroups web page</u>

(https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_i nformation/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 March and 30 April 1022 samples have been submitted to GeoTracker by 323 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley, and the Tulare Lake Basin Water Quality Coalitions. Approximately 13 percent of samples exceeding the drinking water standard. During the same time period, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 1508 drinking water

well exceedances staff has received 1476 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 April 2022, there were 1,809 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,802 signed Drinking Water Notification Templates. From 1 March through 30 April staff have contacted 16 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 13,425 samples submitted to GeoTracker and approximately 23% exceed the nitrate MCL (as of 30 April 2022).

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 Mar- Apr 30
Tule Basin Water Quality Coalition	34
Kings River Water Quality Coalition	32
Kern River Watershed Coalition Authority	47
Total	113

WATER CODE SECTION 13260 DROPPED-MEMBER DIRECTIVES

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

Coalition Area	Directive Letters sent 1 Mar- Apr 30
East San Joaquin Water Quality Coalition	50
Sacramento Valley Water Quality Coalition	38
Total	88

COALITION ENROLLMENT SUMMARY

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. Board staff will begin to incorporate the new 2018 Department of Water Resources land use data to replace the 2016 data along with our other information including but not limited to current membership lists, dairy parcels, WDR land application sites and past inspection data will be included. There are fluctuations in irrigated agricultural acreage due to various factors, including land use conversions, ownership transfers, and regulatory coverage in other programs, but this new effort should give us a clearer picture of the status of enrollment in the irrigated lands program.

ENFORCEMENT FOLLOW-UP

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program and ensuring late member reports are submitted to the Coalitions. The Sacramento Valley Coalition requested our assistance to follow up with late (due 1 March) Irrigation and Nitrogen Management Plan Summary Reports earlier this year to help their members remain in compliance. Staff typically receives a list of late reports from the Coalitions on 31 July every year as required by the Order. For late reports, reminder letters are issued followed by a Notice of Violation (NOV). We are also following up with 13260 directive letters for members who have dropped out of the coalition due to non-payment. Those who do not respond within the timeframe provided will be issued a NOV. There is no enforcement occurring beyond NOVs currently. Staff works closely with the agricultural water quality coalitions throughout the compliance and enforcement process.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

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

CALIFORNIA RICE COMMISSION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
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

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
9/13/21	GAR Update	Draft review sent 2/14, Mtg 3/8/21	CG will revise report to address staff review
4/29/22	GQTM AMR	Under Review	
5/1/22	SW AMR	Under Review	

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

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

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
5/2/2022	SW AMR	Under review	Surface Water Annual Monitoring Report
5/2/2022	GW AMR	Under review	Groundwater Annual Monitoring Report

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
2/3/22	Mgt Plan Completion Request	Approved 3/21/22	Requests completion of various mgt plans
5/2/22	SW AMR	Under review	Surface water annual monitoring report
5/2/22	GW AMR	Under review	Ground water annual monitoring report

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
1/18/2022	QAPP Update	Under review; awaiting complete submittal	
2/7/2022	AMPINAR	Under review	
4/29/2022	GW AMR	Pending review	
5/3/2022	Quarterly Mtg	n/a	WB & CG mtg

GRASSLAND DRAINAGE AREA COALITION

Submittal Date	Item	Review Status	Notes
4/29/2022	2021 AMR	Under review	
11/30/2021	GAR Update	Under review	CVGMC effort; provided comments on 3/15

TULARE LAKE BASIN COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
CGQMP	Comprehensive Groundwater Quality Management Plan Annual
ASR	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
09/20/2021	2020 AMR	Under Review	
11/30/2021	CVGMC 5 YEAR GQAR	Review Sent 03/15/2022	Multiple Coalitions
04/29/2022	2021 GTM ASR	Under Review	

CAWELO WATER DISTRICT COALITION

Submittal Date	Item	Review Status	Notes
10/12/2021	2020 AMR	Pending	
11/30/2021	CVGMC 5	Review Sent	Multiple Coalitions
	YEAR GQAR	03/15/2022	-
04/29/2022	2021 GTM ASR	Pending	

KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
05/28/2021	SWMP -	Review Sent	
	Revision 2	04/29/2022	
10/01/2021	2020 AMR	Under Review	
10/01/2021	2020 CGQMP	Under Review	
	ASR		
11/30/2021	CVGMC 5	Review Sent	Multiple Coalitions
	YEAR GQAR	03/15/2022	
05/01/2022	2021 GTM	Under Review	
	ASR		

KERN RIVER WATERSHED COALITION AUTHORITY

Submittal Date	Item	Review Status	Notes
09/30/2021	2020 AMR	Review Sent 11/03/2021	
09/30/2021	2020 CGQMP ASR	Review Sent 01/03/2022	
10/04/2021	2020 Chanac Creek SWMP ASR	Review Sent 11/03/2022	
11/30/2021	SW MPIR	Pending	
11/30/2021	CVGMC 5 YEAR GQAR	Review Sent 03/15/2022	Multiple Coalitions
04/29/2022	2021 GTM ASR	Under Review	

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
10/31/2021	2020 AMR	Under review	
10/31/2021	CGQMP ASR	Pending	
11/30/2021	CVGMC 5 YEAR GQAR	Review Sent 03/15/2022	Multiple Coalitions
04/08/2022	GTM ASR Extension Request	Approval Sent 04/29/2022	
05/03/2022	2022 GQTM Well Network	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
08/31/2021	2020 AMR	Pending	

WESTLANDS WATER QUALITY COALITION

Submittal Date	Item	Review Status	Notes
11/01/2020	CGQMP/SQMP	Conditional Approval	
	Amendments	Issued 4/25/2022	
08/02/2021	2022 MP	Pending	
	Update		
10/01/2021	2020 AMR	Review sent 12/30/2021	Satisfied General
			Order requirements
11/22/2021	Addendum to	Under Review	
	Source		
	Identification		
	Study		
12/28/2021	2022 QAPP	Under Review	
	Amendment		
05/02/2022	2022	Pending	
	SQMP/GQMP		
	Progress Report		
05/02/2022	2022 GTM ASR	Pending	

WESTSIDE WATER QUALITY COALITION

Deliverables and activities

Submittal Date	Item	Review Status	Notes
09/16/2021	2020 AMR	Under Review	
09/17/2021	2020 CGQMP ASR	Pending	
11/30/2021	CVGMC 5 YEAR GQAR	Review Sent 03/15/2022	Multiple Coalitions
04/29/2022	2021 GTM ASR	Under Review	

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 was the focus of the April 13th ILRP Stakeholder Meeting, and a meeting held on May 2nd with the Coalition and Environmental Justice representatives.

CV-SALTS IMPLEMENTATION

On 29 March 2022, Central Valley Water Board staff (Jennie Fuller, Patrick Pulupa) attended a meeting with the Management Zone representatives to discuss the Central Valley Water Board comment letters regarding review of the Preliminary Management Zone Proposals.

On 7 April 2022 Central Valley Water Board staff (Jennie Fuller, Patrick Pulupa) attended a CV-SALTS Executive Committee Meeting where topics included a status update on the Management Zones' general implementation progress, Central Valley Water Board Enforcement Activities, and the progress of the Prioritization and Optimization Study.

On 13 April 2022 Central Valley Water Board staff (Anne Walters, Patrick Pulupa) attended Environmental Justice Consortium for EAP Implementation Meeting. This meeting included discussion on implementation of the Management Zone's Early Action Plans, SAFER funding of co-contaminants, and community outreach efforts.

On 20 April 2022 Central Valley Water Board staff (Jennie Fuller) attended a meeting regarding the evaluation criteria for Prioritization and Optimization Study Modeling/Analytical Tool.

On 27 April 2022 Central Valley Water Board staff (Jennie Fuller) attended the Chowchilla Management Zone Steering Committee Meeting. The meeting provided an update on implementation of the Management Zone's Early Action Plan and a strategy session and progress update on community outreach efforts.

DATA MANAGEMENT

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

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

ILRP ACRONYMS

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

CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

Deliverables and activities

Submittal Date	Item	Review Status	Notes
11/30/2021	5-Year	Review sent to CVGMC	Collaborative effort of
	Assessment	3/15	10 Coalitions
	Report		
1/5/2022	QAPP	Approved 4/18	
	Amendment		

GRASSLAND BYPASS PROJECT

Submittal Date	Item	Review Status	Notes
4/27/2022	2021 AMR	Under Review	

NORMAN'S NURSERY

Deliverables and activities

Submittal Date	Item	Review Status	Notes
5/2/2022	Mgt Plan Annual Report	Pending review	

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 is meeting on 25 May 2022. The meeting will include an evening townhall meeting at Clear Lake. More information regarding the Committee can be found on the Natural Resources Agency's Blue Ribbon Committee website

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

More information about the Clear Lake Nutrient Control Program can be found on the Clear Lake Nutrient TMDL webpage

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

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).

The Request for Proposals for the 2022 Nonpoint Source (NPS) Grant Program - Clean Water Act section 319(h), originally open from 24 September 2021 through 17 December 2021, has been rereleased and will be open from 28 April 2022 through 24 June 2022. The Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the <u>State Water Board's NPS Control Program webpage</u>.

(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) (H4)

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 workdays 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. These additional demonstration sites were completed in July 2021. The grantee has completed all project work related to this grant and had submitted a final project report on 14

February 2022. A final project inspection and certification was also completed on 28 February 2022. (Closed 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. (Closed 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 that work will begin in the summer of 2022. Due to delays in the project the grantee has requested grant amendment and time extension which was submitted on 4 April 2020. The grantee is requesting a new closing date of 30 June 2024. (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 17 March 2022, Meredith Howard, Jennifer LaBay, Jessica Mullane, and Micaela Bush met with Sarah Ryan, Big Valley Band of Pomo Indicant, 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.

On 13 April, Scott Hatton and Alex Mushegan attended a Salinity Management Tour in Firebaugh to observe the San Joaquin River Drainage Program.

On 14 April, Scott Hatton participated in a Technical Advisory Committee Meeting #2 for the project, "Improving Energy Efficiency and Performance of Wastewater Recycling." This project is sponsored by MicroBio Engineering, Inc., California Polytechnic State University, San Luis Obispo, California, and the California Energy Commission.

*On 28 April, 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 5 May 2022, Jerred Ferguson an Environmental Scientist 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 upcoming California Specialized Training Institute (CSTI) and other 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 May 2nd, ILRP staff met with representatives from several Environmental Justice Organizations and Agricultural Coalitions to discuss development of the Groundwater Protection Targets.

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.

Sampling for the third event for Year 2 was conducted on 28 March 2022 and is being reviewed prior to being fully uploaded to the Central Valley Regional Data Center. The fourth event for Year 2 will be a dry event planned for either May or June. 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 with the goal of sampling starting Summer 2023.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES - MARCH 1, 2022 - APRIL 30, 2022

PROMOTIONS

Alex Olsen – Supervising Engineering Geologist Eric Warren – Senior Engineering Geologist Elijah Werlyklein – Engineering Geologist

NEW HIRES:

Erin Jonasson – Scientific Aid Nicholas Savino – Environmental Scientist

RETIREMENTS:

None

SEPARATIONS:

Jonathan Byers - Scientific Aid

Amy Ha – Water Resources Control Engineer

Anna Kutsapalava - Scientific Aid

Devon McDonald - Scientific Aid

Theresa Westphal - Scientific Aid

LEAVE OF ABSENCE:

Brittany Elliott - Associate Governmental Program Analyst

SUMMARY OF POSITIONS:

Total Authorized Positions: 276.2 Total Vacant Positions: 16.0

Sacramento

Authorized Positions: 152.5

Vacancies: 8.0

Fresno

Authorized Positions: 74.0

Vacancies: 5.0

Redding

Authorized Positions: 49.7

Vacancies: 3.0

TRAINING UPDATES - MARCH 1, 2022 - APRIL 30, 2022

Class Title	Number of Attendees
24-Hour HAZWOPER	8
8-hour HAZWOPER Refresher	5
Active Learning	1
Advanced Project Management	5
Art & Science of Motivation & Morale	3

Class Title	Number of Attendees
Basic Acquisition Certificate	2
Beyond the Pandemic – The Hybrid Workforce 2022	1
Building Resilience	2
California Stormwater Quality Association Quarterly Meeting	1
Cannabis Inspection Awareness	2
CASQA Quarterly Meeting	3
Coaching and Mentoring	6
Communicating Effectively in Complex Organizations	2
Contract Management	1
CWEMF 28th Annual Meeting	1
DVBE Subcontracting Training	2
Effective Decision Making	2
Environmental Laboratory Accreditation Program (ELAP) - Combating Laboratory Fraud	2
Field Safety Training	2
Fluvial Geomorphology	8
From Managing Self to Managing Others	3
GEOS 572: Advanced Field Geology	1
Implicit Bias: What We Do Not Know	7
Influence, Persuade, Nudge: The Science of Getting People to Take Action	2
Interagency Ecological Program Annual Workshop	4
Introduction to Project Management	2
Introduction to Data Visualization with Tableau	2
Introduction to Hydraulic and Hydrologic Modeling	4
Introduction to R for Water Resources Data Science	4
Managerial Leaders 2022 Series: Engaging the Disengaged	3
Mastering Grammar	1
Microsoft Excel Level 2	1
Microsoft Excel Level 3A: Formulas and Functions	2
Microsoft Excel Level 4: Macros & Advanced Features	8
Microsoft SharePoint Training	1
MSHA Annual Refresher	1
Quality Assurance: General Quality Assurance 101	3
Scope of Work	2
Sexual Harassment Prevention and Other EEO Issues	1
So, You Want to be a Supervisor	4
Stakeholder Engagement	1
Statistics Refresher	6
Strategies for Collecting Data, Analyzing Data, and Reporting Results	5

Class Title	Number of Attendees
Time Management	1
TPH Risk Evaluation at Petroleum-Contaminated Sites	1
Water Boards 101: Introduction to the California Water Boards	3
Water Boards 101: ELAP - Combating Laboratory Fraud	8
Water Boards 101: Training Services	3
Working and Leading in Complex Organizations	5

FISCAL UPDATE

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

CONTRACTS

Operational Support Services

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

Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/2020	11/30/2023	\$250,000
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
21-026-150-1	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin	9/20/2021	3/31/2024	\$100,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
		River, Sacramento River and Delta system.			
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.

AUGUST 2022 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- City of Modesto WQCF (Revised)
- California Concentrates (Revised)
- Ventura Coastal Corporation (Revised)
- Califia Farms Bakersfield Facility (Revised)

NPDES PERMITTING

- City of Auburn WWTP Permit Recission (Permitted under MGO)
- City of Modesto WQCF Permit Recission (Permitted under MGO)

OCTOBER 2022 BOARD MEETING

NPDES PERMITTING

Linda County Water District WWTP Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Pacific Coast Producers (Revised)
- Bronco Winery (Revised)
- City of Madera WWTF (Revised)

DECEMBER 2022 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Tuscan Ridge Development (New)
- Rawson Road Septage Disposal Site (Revised)
- Rabbo Brothers (Revised)
- Fowler Packing (Revised)

NPDES PERMITTING

- CA Dept or Parks and Rec Malakoff Diggins Historic Park Renewal
- Municipal General Order Renewal
- Boeing GWETS Renewal
- Mountain House CSD WWTP Amendment
- City of Tracy Renewal
- RMK Mine Renewal
- Pactiv Molded Pulp Mill Renewal
- Shasta CSA #17 Cottonwood WWTP Renewal

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- General Order for Nut Hullers & Processors (New)
- General Order for Food Processors (New)
- CDCR Mule Creek State Prison (Revised)
- City of Ione Tertiary Treatment Plant (Revised)
- California Dairies Inc., Tipton Milk Processing Facility (Revised)
- City of Arvin WWTF (Revised)
- City Ceres WWTF (Revised)
- City of Dinuba WWTF (Revised)
- City of Lemoore and Leprino Foods Company, Stone Ranch Property (Revised)
- Morning Star Packing Company (Revised)
- Teichert Hallwood (Revised)

- Teichert Western Aggregates (Revised)
- Teichert Marysville (Revised)
- Teichert Vernalis (Revised)
- Teichert Woodland (Revised)
- Turner Road Vintners (Revised)
- Woodbridge Winery (Revised)

NPDES PERMITTING

- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- American Valley CSD WWTP Renewal
- Mt. Shasta WWTP Renewal
- City of Colfax WWTP Renewal
- Cutler-Orosi JT Powers WW Authority WWTF Renewal
- City of Redding Stillwater WWTF Renewal
- CCWD Copper Cove WWTP Renewal
- CCWD Forest Meadows WWTP Renewal
- City of Atwater Regional WWTF Renewal
- Tehama CSD #1 Mineral WWTP Renewal
- City of Red Bluff WW Reclamation Plant Renewal
- City of Jackson WWTP Renewal
- Bear Valley CSD WWTF Permit Rescission

ATTACHMENT A - SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 March 2022 through 30 April 2022

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	69	49%
Debris-General	21	15%
Grease Deposition (FOG)	10	7%
Pipe Structural Problem/Failure	9	6%
Debris-Rags	8	6%
Debris-Wipes/Non-Dispersible	8	6%
Other (specify below)	4	3%
Vandalism	3	2%
Debris from Construction	2	1%
Pump Station Failure-Power	2	1%
Construction Diversion Failure	1	1%
Inappropriate Discharge to CS	1	1%
Operator Error	1	1%
Pump Station Failure-Mechanical	1	1%
Total	140	100.0%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 March 2022 through 30 April 2022

Office	Category 1	Category 2	Category 3	Total
5F	1	0	9	10
5R	3	0	1	4
5S	15	6	105	126
Total	19	6	115	140

- Category 1: Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:
 - Reach surface water and/or reach a drainage channel tributary to a surface water; or
 - Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
- Category 2: Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee's sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly
- Category 3: All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition

Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 1 March 2022 through 30 April 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
58	Jamestown SD	Jamestown SD CS	880308	Tuolumne	Yes	9,000	9,000	3/25/2022	Other (specify below)
58	Calaveras Cnty Water District	Copper Cove CS	880102	Calaveras	Yes	3,000	3,000	3/23/2022	Pipe Structural Problem/Failure
58	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880762	Sacramento	Yes	2,775	2,343	4/15/2022	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880776	Sacramento	Yes	1,836	1,836	4/18/2022	Pipe Structural Problem/Failure

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	Nevada CSD No 1	Lake Wildwood CS	880250	Nevada	Yes	2,587	1,708	3/24/2022	Pump Station Failure- Mechanical
5R	Red Bluff City	Red Bluff CS	879845	Tehama	Yes	2,125	1,625	3/4/2022	Root Intrusion
58	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880613	Sacramento	Yes	1,500	1,312	4/9/2022	Grease Deposition (FOG)
5F	USDI National Park Service Sequoia & Kings Canyon	Clover Creek CS	880519	Tulare	Yes	3,000	1,200	3/25/2022	Pump Station Failure- Power
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880807	Sacramento	Yes	1,404	1,097	4/18/2022	Debris-General
5S	Auburn Valley Community Services District	Auburn Valley Community Services Dist	880821	Placer	Yes	960	960	4/22/2022	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880122	Sacramento	Yes	817	737	3/18/2022	Vandalism
5S	Placerville City	Hangtown Creek CS	880482	El Dorado	Yes	650	450	4/1/2022	Grease Deposition (FOG)

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	Placerville City	Hangtown Creek CS	879889	El Dorado	Yes	354	305	3/7/2022	Root Intrusion
58	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880465	Sacramento	Yes	219	205	3/27/2022	Root Intrusion
5S	California Department of Corrections and Rehabilitation	Folsom State Prison CS	879872	Sacramento	Yes	200	200	3/8/2022	Other (specify below)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880642	Sacramento	Yes	375	167	4/11/2022	Debris-Rags
5R	Quincy Community Services District	Quincy CS	880956	Plumas	Yes	75	75	3/29/2022	Root Intrusion
58	Sacramento Area Sewer District	Sacramento Area Sewer District CS	880320	Sacramento	Yes	84	67	3/24/2022	Debris-General
5R	Redding City	Redding City CS	880955	Shasta	Yes	300	20	4/28/2022	Debris from Construction