

EXECUTIVE OFFICER'S REPORT

15 OCTOBER 2021

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

Patrick Pulupa, Executive Officer



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SUCCESS STORIES

SITE CLEANUPS

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

NO FURTHER ACTION DETERMINATION, UNION PACIFIC RAILROAD DIESEL RELEASE, PORT OF STOCKTON, 2201 WEST WASHINGTON STREET, STOCKTON, SAN JOAQUIN COUNTY

In July of 2020, Union Pacific Railroad (UPRR) representatives discovered a locomotive engine overfilling and spilling diesel within a staging area at the Port of Stockton. Upon discovery, UPRR engaged emergency shut-off valves to stop the release and deployed vacuum trucks and absorbent materials to capture free product. In the days following the release, UPRR used a photoionized detector (PID) and the red-dye indicator present in the diesel to delineate the extent of contamination. UPRR excavated approximately 118 tons of contaminated soil and track ballast from the impacted area and beyond the extent where the PID no longer detected volatile organic compounds. Upon request, UPRR provided Central Valley Water Board staff with waste manifests and confirmation sample analysis from the excavation bottom and sidewalls. Laboratory results indicated that all analytes, including diesel, in the confirmation samples were present below commercial and residential screening levels. A public notice was distributed for a 30-day comment period on the Central Valley Water Board's consideration of making a No Further Action Determination. No comments were received and UPRR was granted a No Further Action Determination on 3 August 2021.

CHICO ARMY AIR FIELD, FORMERLY USED DEFENSE SITE, CHICO, BUTTE COUNTY)

The Chico Formerly Used Defense Site (FUDS) was formally closed on August 12th. The project included the evaluation and/or remediation of 58 Containerized Hazardous, Toxic, and Radioactive Waste (CON/HTRW) Areas of Interest (AOIs) at the Former Chico Army Airfield in Chico, California. The Central Valley Water Board concurred with the U.S. Army Corps of Engineers (USACE) determination that all 58 sites have achieved a “response complete” status and no additional actions are required.

NO FURTHER ACTION DETERMINATION, MEADOWLANDS ESTATES UNIT 4, LINCOLN, PLACER COUNTY

In April 2021, the Private Sites Cleanup Unit issued a No Further Action Determination for the Meadowlands Estates Unit 4 property located in Lincoln, Placer County. The Site is being developed as residential housing and is part of a larger housing development. Benzene, trichloroethene, and tetrachloroethene were detected in soil vapor samples collected from various locations across the Site at concentrations exceeding the San Francisco Water Quality Control Board Environmental Screening Level for a residential scenario but were not detected above drinking water standards in shallow groundwater. Based on the distribution and the lack of contaminants in groundwater, it appears that contaminants encountered in soil gas around the Site are from offsite releases carried onto the Site with storm water and/or from various small fugitive surface releases. The Site had not been previously developed. Future residential housing at the Site will be constructed with 10.5-inch post-tension concrete foundations over a 10-mil polyethylene vapor barrier. The RP was required to record a Covenant with the County requiring notification of the site condition to all future owners.

WHEATLAND GAS, 100 D STREET, WHEATLAND, YUBA COUNTY

The Site is an active service station in Wheatland, California. In 1999, Mr. Sharma removed 6,500-gallon and 7,000-gallon single walled, steel gasoline USTs, a 550-gallon waste oil UST, single walled steel conveyance piping, and the dispenser island. In May 1999, Apex removed approximately 200 cubic yards of petroleum impacted soil from the former waste oil and gasoline UST basins. Apex Envirotech, Inc. (Apex) conducted soil and groundwater investigations evaluating the extent of petroleum hydrocarbon impacts. Between 2010 and 2015, Apex operated a dual-phase extraction remediation system and removed approximately 42,900 pounds (6,800 gallons) of TPH as soil vapor and treated approximately 964,000 gallons of groundwater. Apex concluded that the TPH plume is decreasing and remains stable and that residual petroleum is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred with Apex that closure of the case under the *Low-Threat Closure Policy* was appropriate and closed the case on 29 June 2021.

CRYSTAL VIEW STATION, 6529 PONY EXPRESS TRAIL, POLLOCK PINES, EL DORADO COUNTY, LUST CASE #090060

In the 1980's the Site owner and Responsible Party, Mr. Tooraj Agahi, abandoned a 2,000-gallon gasoline UST in-place at the Site. In 1994 Mr. Agahi removed five USTs from the Site: one 8,000-gallon, one 5,000-gallon, and one 4,000-gallon gasoline USTs; one 2,000-gallon kerosene UST; and the previously abandoned-in-place 2,000-gallon UST. Also, in 1994, Mr. Agahi abandoned a 10,000-gallon diesel UST in-place due to its location under the corner of the station building. Mr. Agahi removed approximately 1,000 cubic yards of impacted soil during the 1994 UST removals, and another 300 cubic yards of impacted soil in 2006. Between 2002 and 2008, Mr. Agahi and his consultants installed/advanced a total of 16 monitoring wells, 2 soil vapor extraction wells, and 8 soil and groundwater borings to assess and cleanup the Site release. Remediation at the Site, including excavation and soil vapor extraction removed more than 13,470 pounds of hydrocarbons from the subsurface. While several domestic water supply wells in the area were impacted by the release, the impacts were periodic, and these wells are either no longer impacted or are used for irrigation purposes only. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*. Staff closed the case on 29 June 2021.

CHEVRON STATION #9-4054, 2103 COUNTRY CLUB BOULEVARD, STOCKTON, SAN JOAQUIN COUNTY, LUST CASE #390089

In 1983 tank integrity testing revealed the product manifold piping system was leaking. In 1989, the Site consultant removed five gasoline USTs and one waste oil UST from the Site and razed the Site. Between 1986 and 2018 consultants installed/advanced a total of 27 monitoring wells, 16 dual-phase extraction wells, 9 air-sparge wells, 2 groundwater extraction wells, 5 piezometers, 9 soil gas wells, 21 temporary soil gas probes, and 50 soil and groundwater borings on and around the Site property to assess and cleanup the Site release. Remediation at the Site, including dual-phase extraction and air-sparge, removed a total of 2,180 pounds of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*. Staff closed the case on 29 June 2021.

QUICK-N-SAVE MARKET (FORMER), 641 EAST CHARTER WAY, STOCKTON, SAN JOAQUIN COUNTY, LUST CASE #391007

In 2000, the Responsible Party (RP), Faiza Mona Tariq, removed four USTs from the Site: one 6,000-gallon, two 4,000-gallon, and one 2,000-gallon gasoline USTs. Between 2007 and 2017 the RP and his consultants installed/advanced a total of 10 monitoring wells, 6 soil vapor extraction wells, 8 air-sparge wells, 4 soil gas wells, and 11 soil and

groundwater borings on and around the Site property to assess and cleanup the Site release. Remediation at the Site, including soil vapor extraction and air-sparge, removed approximately 5,800 pounds of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*. Staff closed the case on 29 June 2021.

RALEY'S WEST SACRAMENTO, 1601 WEST CAPITOL AVENUE, WEST SACRAMENTO, YOLO COUNTY

The Site is currently a Raley's grocery store and a key sales kiosk. Before the 1960s, the Site contained a gasoline station on the northwest corner of the property, an auto repair facility on the west side of the property, and a truck repair facility on the southwest side of the property. Brusca Associates (Brusca) completed a Phase I Environmental Site Assessment (ESA) in September 2017, a Phase II ESA in March 2019, and an Additional Site Investigation in July 2020. Yolo County Environmental Health Department (YCEHD) opened a UST case in March 2019 for the petroleum release. Following a ground penetrating radar survey in February 2019, Brusca removed a 750-gallon petroleum UST from the south side of the Site in July 2020. YCEHD did not require further work associated with that UST. Soil, groundwater, and soil gas sample data from the Site were below criteria of the Low-Threat Closure Policy. Remediation through biodegradation and natural attenuation have reduced petroleum concentrations in the soil and groundwater. Brusca concluded that the residual petroleum in soil and groundwater is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred with Brusca and closed the UST case under the *Low-Threat Closure Policy* on 18 June 2021. Central Valley Water Board staff are addressing chlorinated volatile organic compounds from a separate release at the Site within a Site Cleanup case.

13-MILE POST, 6306 PONY EXPRESS TRAIL, POLLOCK PINES, EL DORADO COUNTY

The Site is currently an active fueling station and mini market located in Pollock Pines, El Dorado County. The surrounding area is primarily residential and is located adjacent to a former elementary school. In February 2008, the Site's USTs, product delivery piping, and fuel dispensers were removed from the Site and replaced. Based on soil samples collected during the tank removal, an unauthorized petroleum release impacted soil at the Site. In October and November 2010, Stratus Environmental Inc. (Stratus) conducted an additional investigation and concluded that the release had also impacted groundwater at the Site. Between October 2013 and March 2018, Stratus operated a soil vapor extraction (SVE) remediation system at the Site, removing 4,471 pounds of petroleum hydrocarbons. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. No water supply wells, or surface water bodies are located within 1,000 feet of the remaining plume. Residual petroleum constituents are unlikely to pose a threat to

human health or further impact waters of the state as they attenuate; therefore, the cost of additional active remediation or monitoring is not justified. Since the Site he meets the *Low-Threat Closure Policy*, Central Valley Water Board staff concurred with Stratus's recommendation for case closure and closed the case on 17 June 2021.

**FORMER ARCO STATION #6100, 2151 COUNTRY CLUB BOULEVARD,
STOCKTON, SAN JOAQUIN COUNTY, LUST CASE #390265**

In May 1987 a waste oil tank of unknown size was removed from the Site, and in November 1990 one 10,000-gallon and four 6,000-gallon unleaded gasoline USTs were removed from the Site. Soil sampling in the vicinity of these tanks indicated that a release had occurred at the Site. Between 1990 and 2018 various consultants installed/advanced a total of 20 monitoring wells, 20 vapor extraction wells, 6 air-sparge wells, and 50 soil and groundwater borings to assess and cleanup petroleum hydrocarbons beneath the Site. Remedial actions at the Site, including excavation, LNAPL removal, soil vapor extraction, and air-sparging, removed a total of 184,450 pounds of hydrocarbons from the subsurface. Groundwater sampling data showed that the remaining impact to groundwater was defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*. Staff closed the case on 17 June 2021.

FRESNO

AUBERRY GARAGE, 33246 AUBERRY ROAD, AUBERRY, FRESNO COUNTY

The site is currently an automotive repair facility only, that formerly stored motor fuel. Two gasoline USTs were removed during 1991 without local agency oversight after failing to comply with operating permit requirements. In 2001, the local agency referred the case to the Water Board for regulatory oversight. Total petroleum hydrocarbons as gasoline (TPHg) was detected in soil samples collected beneath the former USTs and a dispenser during 2003. Corrective action was postponed until after investigation and cleanup of an adjacent UST release, which was thought to have been a source of soil and groundwater contamination that migrated onsite.

The Water Board first requested investigation during 2014 and directed additional investigation in 2014 and in 2016. The adjacent UST release was closed during 2017, and some investigation for that release was conducted near or on the site. Soil gas and soil samples were collected on site and analyzed during 2018 and 2021 to verify that the *Low Threat Closure Policy* criteria were satisfied.

The site has been remediated to the extent practicable. The small remaining petroleum mass in soil 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. The case was closed 10 September 2021.

**FLYING J TRAVEL CENTER #616, 42810 FRAZIER MOUNTAIN PARK ROAD,
LEBEC, LOS ANGELES COUNTY**

The site is an operating fuel facility for commercial and passenger vehicles. Gasoline and diesel fuels were detected in soil samples collected during UST system removal from August to October 2018. The local agency referred the case to the Board during February 2020 for regulatory oversight. Investigation to determine release extent was conducted in August and November 2020. Soil borings were advanced and sampled at locations with TPH detections greater than 100 mg/kg beneath a diesel UST, four fuel dispensers and three locations beneath product lines. Gasoline and diesel constituents were detected at concentrations less than in the UST removal samples. The fuel oxygenate MTBE was not detected. Less than 250 pounds of fuel constituents were estimated to remain in 16 cubic yards of soil, with mass concentrated at shallow depths. An undocumented fuel mass was removed during UST system removals, and additional active remediation was not practicable. The remaining hydrocarbons should not pose a threat to human health and safety or the environment and should naturally attenuate. The case met *Low-Threat Closure Policy* criteria and was closed on 6 July 2021.

**FORMER BRITTON FERTILIZER, 7155 NORTH WASHOE AVENUE, FIREBAUGH,
FRESNO COUNTY**

The site is currently a trucking and repair facility. A 1,000-gallon gasoline UST, adjacent to the truck repair shop/office building, was removed in 2009-2010. Gasoline constituents were detected in soil and shallow groundwater during site investigations. Multiple phases of soil investigation continued until 2014 and groundwater monitoring was conducted from 2012-2017. Three gallons of floating petroleum product were removed from a monitoring well during 2014.

Soil gas probes were installed at two locations adjacent to the building during 2013. The Policy's vapor intrusion criteria were exceeded in samples collected during two events in 2013. Approximately 500 cubic yards of soil containing an undocumented gasoline mass was removed to a depth of 14 feet bgs from the former UST location during June 2016. Subsequent vapor samples indicated that the Policy's vapor intrusion criteria remained unsatisfied at the other sampling location. An additional excavation during May 2018 removed 960 cubic yards of soil containing an undocumented gasoline mass. Further sampling during June 2019 and February 2020 satisfied the *Low-Threat Closure Policy* criteria.

The site has been remediated to the extent practicable. The groundwater contaminant plume appears to be stable and/or decreasing. Remaining gasoline mass should continue to naturally attenuate and not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case was closed on 9 July 2021.

KURZ TRUCKING, 23139 AVENUE 196, STRATHMORE, TULARE COUNTY

The site is a commercial trucking facility. A 550-gallon gasoline UST was removed during April 1986. Gasoline constituents were detected in a soil sample collected beneath the UST and 39 cubic yards of soil containing an undocumented gasoline mass were removed and transported offsite for disposal. Soil sampling was conducted during 1989 to evaluate the extent of the release, and one monitoring well was installed and sampled indicating groundwater impact.

The local agency declared a release and referred the case to the Water Board for regulatory oversight in July 2013. Additional site assessments were conducted during 2019-2020 to determine if criteria contained in the *Low-Threat Closure Policy* were satisfied. The vertical extent of remaining contaminants was concentrated no deeper than 20 feet below ground surface (bgs) with an estimated mass of approximately 3,000 pounds. Health risk from shallow soil contamination was less than the level of concern. Soil gas sampling during November 2019 indicated no health risk from vapor intrusion. Investigation during September 2020 determined that groundwater levels had decreased to greater than 60 feet bgs and was no longer threatened. Water is provided by a public water system. Remaining petroleum hydrocarbons should continue to naturally attenuate and not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case satisfied the *Low-Threat Closure Policy* criteria and was closed 1 September 2021.

MERCED COUNTY PUBLIC WORKS YARD, 715 MARTIN LUTHER KING JR WAY, MERCED, MERCED COUNTY

Merced County Public Works (MCPW) had a release of petroleum fuel at the Site and removed the USTs in 1986. In 2008, MCPW excavated 126 cubic yards of impacted soil for offsite disposal. From December 2010 to November 2012, MCPW operated an air sparge / soil vapor extraction system, which removed 1,860 pounds of hydrocarbons from the subsurface. The remaining petroleum constituents in soil, soil gas, and groundwater are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Central Valley Water Board staff concurred with Moore Twinning Associate's recommendation for case closure and closed the case on 27 August 2021.

REDDING

SIBOLDI RESIDENCE, CASE 470058, SISKIYOU COUNTY

The case involves a private residence that used 400-gallon USTs to store heating oil. A release was discovered in May 2019 during removal of a UST under Siskiyou County Environmental Health Division (SCEHD) oversight. SCEHD referred the case to the Central Valley Water Board in June 2019. The Discharger performed site assessment activities in 2019 and 2020, including soil borings and soil vapor sampling. Active remediation entailed removal of three cubic yards of soil in 2020. A second UST was discovered during the soil removal. To protect the structural integrity of the building

foundation, the tank was abandoned in place under a SCEHD permit. Groundwater was not encountered in the excavation or any of borings. The reported concentrations of contaminants remaining in soil are less than thresholds for the protection of groundwater. In addition, a site-specific vapor intrusion risk assessment confirmed that the remaining petroleum in soil does not present a health risk. Staff closed the case under the *Low-Threat Closure Policy* in August 2021.

CLARK RESIDENCE, CASE SLT5R1103, SISKIYOU COUNTY

In May 2018, a 200-gallon heating oil above ground storage tank (AST) was removed from a residential property under Siskiyou County Environmental Health Division (SCEHD) oversight. An unauthorized release of petroleum hydrocarbons was detected in confirmation samples collected from the soil beneath the AST and from a grab groundwater sample collected from the excavation. Soil and groundwater samples indicated elevated levels of total petroleum hydrocarbons as diesel (TPHd). Approximately 15 cubic yards of impacted secondary source material (an estimated 44.10 pounds of TPHd) was removed during the UST excavation. Structural concerns regarding potential threats to the integrity of the residential foundation prevented further excavation. Subsequently, SCEHD referred the case to the Central Valley Water Board in June 2018. Staff approved a work plan for additional site assessment in November 2018. Implemented in October 2020, the additional site assessment delineated the vertical and lateral extent of petroleum-related contaminants in soil, soil vapor, and shallow groundwater. The remaining petroleum contamination does not pose a health risk and is expected to continue to decrease. Staff closed the case under the *Low-Threat Closure Policy* in August 2021.

IRRIGATED LANDS REGULATORY PROGRAM

Irrigated Lands Program staff members have achieved an outstanding 99% compliance for drinking water notifications. This is associated with the drinking water well monitoring requirements and required when the nitrate drinking water standard is exceeded. It is a high priority for Irrigated Lands staff who continue to follow up with all notifications that are required as new sampling information comes in. More detailed information can be found in the Irrigated Lands write-up below.

STAFF RECOGNITION

EMPLOYEE RECOGNITION AWARDS

EMPLOYEE: DANA KULESZA

UNIT: Irrigated Lands Regulatory Program

LOCATION: Rancho Cordova Office

TITLE: Engineering Geologist

SUPERVISOR: Susan Fregein

Dana is receiving this Employee Recognition Award for her consistently exceptional performance in the Irrigated Lands Regulatory Program. I especially want to highlight her work this year to bring a Resolution to our Board in August that exempted irrigated pasture in the Goose Lake Subwatershed from the ILRP. Dana enthusiastically took on this project to help fill a staffing gap in our program. She came up to speed very quickly and demonstrated strong leadership abilities. Dana's participation in this effort was important to the Board's timely adoption of the exemption. Her key contributions included:

- Preparing monthly updates to key stakeholders
- Preparing the Staff Recommendations Report
- Preparing the Resolution and Order Revisions
- Preparing and presenting the resolution to our Board, and
- Always maintaining a helpful, cheerful, and professional attitude!

Dana brings this same level of insight, commitment, and excellence to all the many ILRP projects she supports and leads. Huge thanks to Dana!!

EMPLOYEE: ERIC BAGGS

UNIT: SWAMP

LOCATION: Rancho Cordova Office

TITLE: Scientific Aide

SUPERVISOR: Anne Walters

Eric Baggs is a highly valued member of the SWAMP unit and is being recognized for his efforts supporting the program's field work and data management activities.

The SWAMP unit has been very busy this summer implementing multiple field studies in the Lower American River, the Lone Tree watershed and the Delta. This work could not have been successfully completed without Eric's diligent efforts. Eric led weekly field runs, processed innumerable lab samples, assisted with training new staff and coordinated data management tasks, while also making time to participate in statewide water quality data initiatives. Eric's work includes the development of innovative automation tools for CEDEN data management and water quality analysis. When State Board staff recently reported an elusive program bug, Eric worked tirelessly troubleshooting and testing different program code to find a solution. Eric takes on each task with enthusiasm and a great attention to detail. We are fortunate to have Eric working at the Central Valley Water Board and he is well deserving of this award.

EMPLOYEE: CRYSTAL HANSON

UNIT: Non-Point Source Forest Activities

LOCATION: Redding Office:

TITLE: AGPA

SUPERVISOR: Griffin Perea

Crystal Hanson is an AGPA in the Redding office's Nonpoint Source Unit and has been with the Central Valley Water Board since 2018. Crystal started in the Admin Unit in

2018, quickly becoming the go to person for ADA compliance, Public Records Act requests, and assembling items for the Executive Officers Reports. In April 2020 Crystal accepted the AGPA position in the Nonpoint Source Unit.

Although Crystal's transition to the AGPA position occurred during a challenging time, with the move to teleworking, she continued to impress with her work ethic and dedication to learning the new position. During her transition, Crystal continued to provide support to the Admin Unit while coming up to speed in her new role. Within the Nonpoint Source Unit Crystal is tasked with aiding in the development of the Utility Vegetation Management workload, tracking legislation pertinent to the Forest Activities Program, and aiding with the organization of the Nonpoint Source Unit's fire response workload. Recently Crystal stepped in to assist with data entry in Forest Practice Unit, helping staff to get caught up with record keeping resulting from the North Complex Fire in Butte county. In addition, Crystal has been tasked with developing a GIS mapping effort for work occurring the Dixie Fire, requiring her to gain a more advanced understanding of the GIS platform and working with several staff to coordinate the effort.

Crystal has become a valuable member of the Nonpoint Source Unit. She has a great attitude and brings a strong work ethic to the organization. Thank you, Crystal, for all that you do, your contributions are greatly appreciated.

EMPLOYEE: MARISOL GONZALEZ

UNIT: NPDES

LOCATION: Redding Office

TITLE: Engineering Geologist

SUPERVISOR: Bryan Smith

Marisol Gonzalez is an Engineering Geologist with the Redding office's NPDES Unit. Marisol joined the NPDES Unit in September 2020, after transferring from the Cannabis Regulatory program where she had worked since she started with the Central Valley Water Board in June 2017. While in the Cannabis program, Marisol was known for being a top producer and completed many inspections and reports and helped plan other work regarding mapping and site selection. When the Cannabis program went through a fiscal contraction, Marisol agreed to take on a new role and moved to the NPDES Unit. In the NPDES Unit, Marisol quickly dove in and began learning the ins and outs of regulating surface water discharges under the NPDES program. Despite the limitations and challenges of learning a new program in the telework environment, Marisol completed training and took on challenging projects. She is currently working on an NPDES permit for one of the largest dischargers in the Redding office and tackling its complex issues.

Marisol fit in with her new teammates in the NPDES unit right away, and brings a positive, ready-to-work attitude. She is proving herself to be a valuable addition to the unit and program and her efforts are very much appreciated. The Redding office's managers are very appreciative of her dedication and commitment. We are very pleased to recognize her excellent work!

EMPLOYEE: DENISE SORIA

UNIT: Non-15 Permitting

LOCATION: Fresno

TITLE: WRCE

SUPERVISOR: Alex Mushegan

Due to the ever-increasing demands in the WDR Permitting program, Denise has been asked to take on new tasks and projects. Specifically, Denise was willing to start participating in the CV-SALTS Red Team to represent the WDR Program for the Region. Since that time, her responsibilities in the Red Team have grown, and she has demonstrated her ability to handle the new and changing workload that comes with being the WDR representative for the CV-SALTS Red Team. The new Salt and Nitrate Control Programs have brought a significant amount of changes and challenges to the WDR Program. Due to the significant number of regulated facilities as well the wide variety of facilities permitted in the WDR Program, the Salt and Nitrate Control Programs have created a significant workload for the program. Denise has been the lead staff person tasked with helping address this workload.

This workload includes regularly directly responding to inquiries from dischargers, coordinating with other staff and other offices to respond to inquiries, drafting issues papers, and, more recently, reviewing some of the Nitrate Initial Assessment Reports submitted for Conservative Pathway. Denise's demeanor and communication skills allow her to effectively communicate the complexities of the WDR and CV-SALTS programs to the regulated public. Furthermore, Denise's work ethic and knowledge of the programs allow her to take on complex issues and prepare clear and concise summaries to management allowing projects to move forward in a timely manner.

In addition to her work with the CV-SALTS program, Denise continues to handle her regular workload in the WDR Program. This work recently included, in part, conducting the necessary case handling for sites as issues and questions come up, processing multiple rescission/termination requests, starting the permitting process for revising WDRs for an existing POTW, and issuing a Monitoring and Reporting Program for a new livestock hauling facility. Furthermore, Denise Soria is a member of State Board's Racial Equity Work Group and is a valuable asset to the group and the work being completed through this effort.

We are very fortunate to have Denise working at the Central Valley Water Board, and she is well deserving of this recognition.

ENFORCEMENT

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves

public confidence when government is ready, willing, and able to back up its requirements with action. This section of the EO Report is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of all enforcement actions issued.

ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders (CAOs); 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 Water 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 July 2021 through 31 August 2021)**

Action Date	Agency	County	Notes
7/21/2021	Cassinelli, Mondani, Darius	Amador	CAO R5-2021-0700 issued due to surface water runoff, disturbed soil, waste rock, processed ore, tailings, slag and other materials present within, and discharged from, the Mining Area. The CAO required the Discharger to clean up the site and submit the site characterization, monitoring plan, and site closure plan.
8/3/2021	Vacaville City DPW	Solano	ACL R5-2021-0507 in the amount of \$3,000 addresses Mandatory Minimum Penalties (MMPs) for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
8/3/2021	City of Grass Valley	Nevada	ACL R5-2021-0506 in the amount of \$3,000 addresses MMPs for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
8/3/2021	City of Williams	Colusa	Stipulation of Entry of ACL Order (Stipulated Order) R5-2021-0511 in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 June 2018 and 31 December 2020. The penalty shall be suspended liability if the Discharger complies with the time schedule and requirements for the CP as detailed in Attachment B of the Stipulated Order.

Action Date	Agency	County	Notes
8/3/2021	Yuba City	Sutter	ACL R5-2021-0509 in the amount of \$15,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
8/27/2021	Tommy Sisomsouk	Shasta	Board staff issued a Notice of Violation (NOV) and 13267 Order because the Discharger's Facility was being used as unpermitted cannabis cultivation activities, which has resulted in unauthorized discharges of, and threatened discharges of waste, into water of the state. In addition, the 13267 Order required the Discharger to submit a workplan for site restoration and mitigation measures that addresses past discharges and the threats of future discharge to water of the state.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 July 2021 through 31 August 2021. From a statewide perspective, Region 5 is responsible for 11% of the enforcement actions tracked in CIWQS during this period including 50% of all 13267, 44% of all ACLs, and 31% of all NOVs.

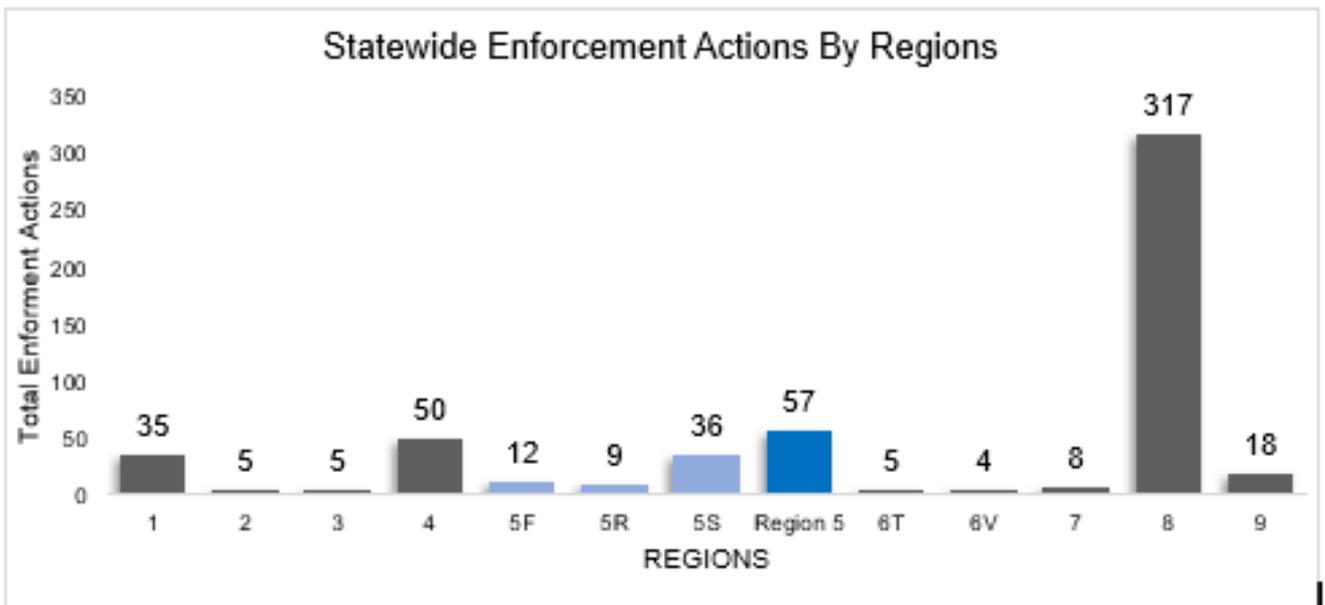
**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
(1 July 2021 through 31 August 2021)**

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	0	0	1	1	0	32	1	0	0	0	35
2	1	0	1	0	1	0	1	0	1	0	0	5
3	0	0	2	0	0	2	0	0	1	0	0	5
4	0	1	0	0	0	0	28	0	0	4	17	50
5F	0	0	0	0	0	0	6	0	0	0	6	12
5R	1	0	0	0	0	0	7	0	0	1	0	9
5S	0	1	4	1	0	0	26	0	1	0	3	36
Region 5	1	1	4	1	0	0	39	0	1	1	9	57
6T	0	0	0	0	0	0	1	0	4	0	0	5
6V	0	0	0	0	0	0	2	0	1	0	1	4
7	0	0	1	0	0	0	7	0	0	0	0	8
8	0	181	0	0	0	0	0	0	18	1	117	317
9	0	0	1	1	0	0	15	0	1	0	0	18
Total	2	183	9	3	2	2	125	1	27	6	144	504

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



Enforcement Figure 1

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 REPORTED in GeoTracker (1 July 2021 through 31 August 2021)

Region	13267 Requirement	CAO	Notice Letter	NOV	Staff Letter	Warning Letter	Total
5F	0	1	1	1	51	1	55
5R	0	0	1	1	16	0	18
5S	1	0	1	0	75	0	77
Total	1	1	3	2	142	1	150

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 July 2021 through 31 August 2021, a summary of those enforcement actions is included in Table 4, below.

Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS (1 July 2021 through 31 August 2021)

Region	Reminder letters for Failure to Enroll in ILRP	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP)	Total
5F	0	0	0
5R	0	0	0
5S	82	46	128
Total	82	46	128

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 an 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 July 2021 through 31 August 2021, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

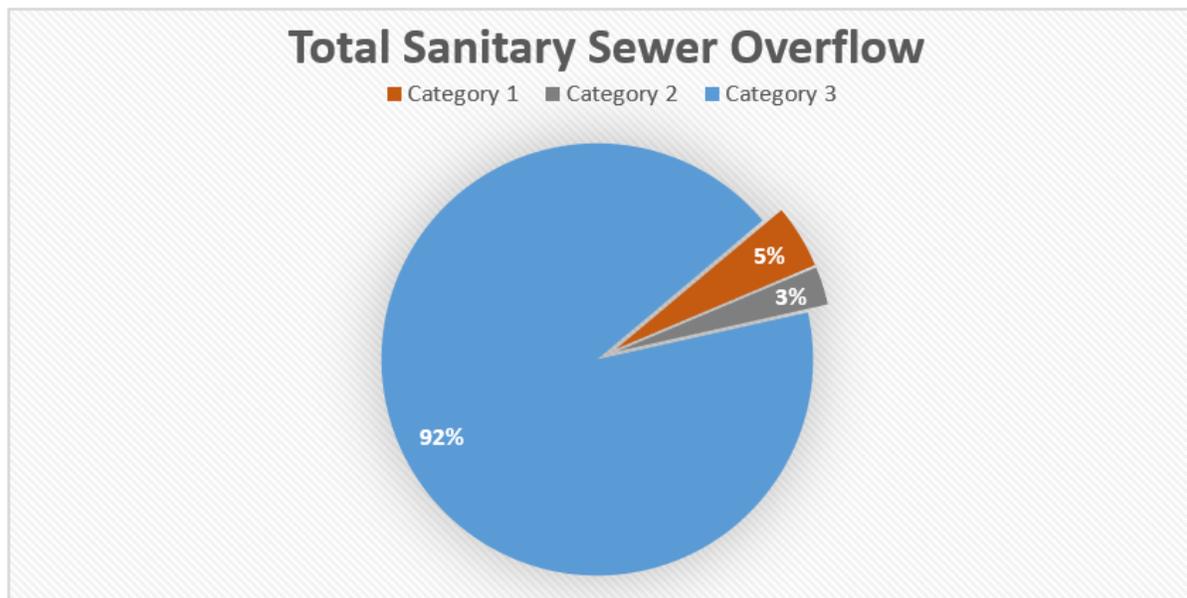


Figure 2: Central Valley Sanitary Sewer Overflow Summary

For the reporting period between 1 July 2021 through 31 August 2021, there were 105 total SSO spills: 5 Category 1, 3 Category 2, and 97 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 in the State Water Board's CIWQS database pursuant to the requirements of SSS General Order.

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 July 2021 through 31 August 2021, Central Valley Water Board staff have received a total of **41 complaints** from phone calls, emails, and from the [CalEPA Complaint database](#)

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

To date, 38 (93%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining three (3) complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

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

COMPLIANCE PROJECT (CP)

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

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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

the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger.

ENHANCED COMPLIANCE ACTION (ECA)

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

For the fiscal year period between 1 July 2021 through 31 August 2021, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$24,000 in monetary penalties (Liability payable to CAA, CP and SEP) was issued during this period, of which \$21,000 (88%) of the penalties were paid to the State Water Pollution Cleanup and Abatement Account and \$3,000 (13%) of the penalties were allocated to one CP (see Figure 4 below).

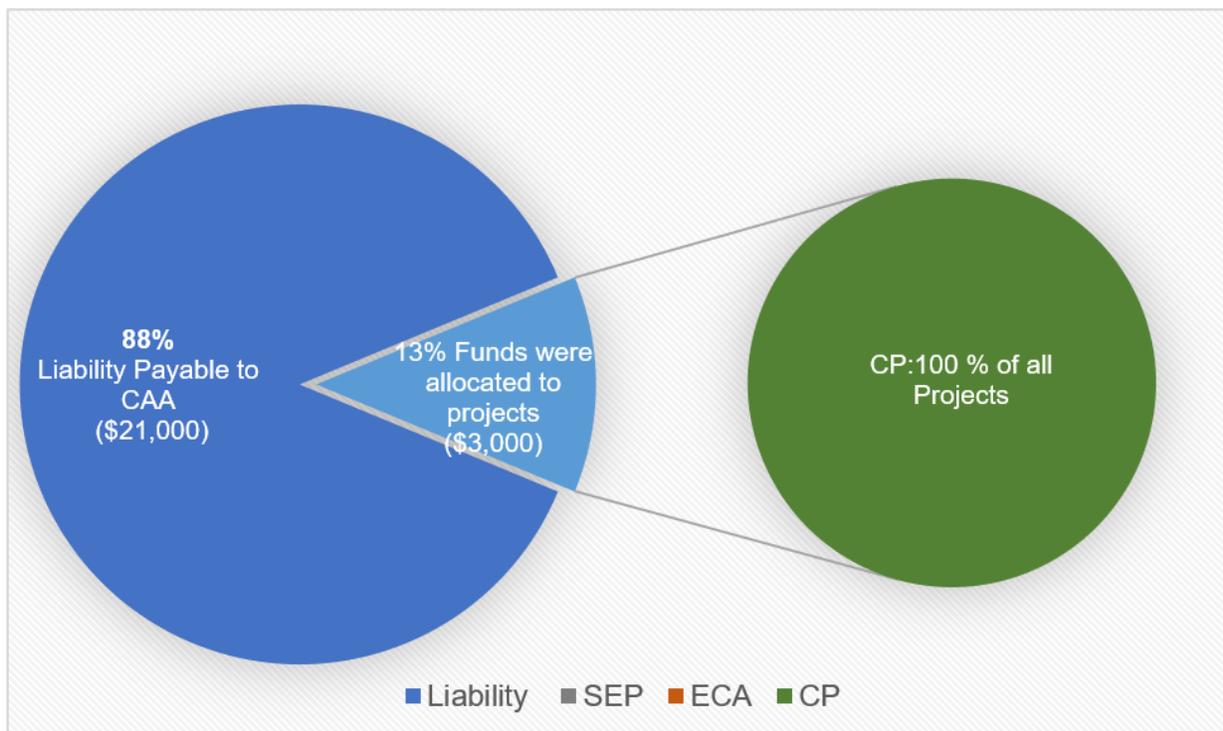


Figure 3: Sum of Total Monetary Penalties issued during the fiscal year (1 July – 31 August 2021)

PERFORMANCE TARGETS

Performance measurement and reporting is an important component of a complete system of performance management and is needed to demonstrate how well programs or strategies are working. Information obtained through better performance

measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs.

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

(https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)

and was used to develop the FY 2020-2021 performance targets. Below is the Central Valley Water Board's Performance Measurement Summary for the 2021-2022 fiscal year.

ENFORCEMENT TABLES 5A-5E – REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2021 THROUGH 31 AUGUST 2021)

Table 5a – NPDES Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	29	0	0%	NA	0*
Minor Facilities Inspected	9	1	11%	NA	1*

*NPDES facility inspections are typically low in July and August as NPDES CE staff conduct MMP evaluations for all NPDES dischargers during these months.

Table 5b – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	31	8%	NA	31
Stormwater Industrial Inspections	195	44	23%	NA	44

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Municipal Inspections	0	5	NA	NA	5

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	151	8	5%	NA	8

Table 5d – Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	6	5%	NA	6
All Other Inspections	23	3	13%	NA	3

Table 5e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	27	16%	NA	27
Confined Animal Facility Inspections	275	31	11%	NA	31

ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY (1 JULY 2021 THROUGH 31 AUGUST 2021)

Table 6 – Clean Up

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	6	0	0%	NA	NA
New SCP Sites into Active Remediation	50	2	4%	NA	NA
Cleanup Program Sites Closed	60	4	6%	NA	NA
New UST Sites into Active Remediation	25	0	0%	NA	NA
Underground Storage Tank Sites Closed	68	4	5%	NA	NA

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

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

A second Review Panel reviewed the remaining 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>)

A one-day virtual meeting for methylmercury control study participants summarizing control study findings to-date and related impacts to the DMCP was held on 10 September 2020. Board staff met with dischargers to discuss the control study

reports and to obtain clarification information and anticipate issuing letters of compliance with the DMCP for all studies.

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 throughout the development of the DMCP Review and included within the administrative record.

More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/) here:

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

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings, including Technical Advisory Committee (TAC) and Steering Committee (SC) meetings as well as other smaller meetings to provide support for program implementation. The program is transitioning the Implementing Entity from the Aquatic Science Center to the newly formed 501(c)3 Delta RMP entity, comprised of RMP permittees. Modifications to the governance structure, program structure, and implementing entity require approval by the Central Valley Water Board. As such, the Board will be considering adoption of a Resolution to approve the Delta RMP new governance structure and implementing entity.

Board staff reviewed a revised Governance Report requested by the Executive Officer to provide more details on the new implementing entity, program structure, and to address Board staff questions. Board staff have also met with OCC to discuss how to update the language in the Board permits and orders to reflect the new RMP program structure.

The Delta RMP SC met on 29 July 2021 to discuss and approve the FY2021/2022 monitoring workplan. Board staff participated in the newly formed Contaminants of Emerging Concern (CEC) Technical Advisory Committee (TAC) in August to review, discuss and finalize the draft Year 2 CEC Quality Assurance Program Plan (QAPP). Board staff also provided a review of the draft Delta RMP General QAPP and a draft Data Management Standard Operating Procedures document for FY2021/22 monitoring. Board staff participated in several TAC review meetings and coordinated with State Board staff. Revised drafts of both documents are scheduled to be approved prior to October 2021 monitoring.

On 27 September 2021, the TAC formed under the previous implementing entity held a final meeting. There was an overview of the new governance structure and implementing entity presented, including the new Advisory Committees to be formed for the four major technical areas of the program: current use pesticides and toxicity,

mercury, nutrients, and constituents of emerging concern. There were three presentations providing updates from the technical project leads to the TAC for several ongoing projects including the Supplemental Environmental Project focused on *Microcystis* source tracking, cyanotoxin monitoring, and a nutrient modelling report.

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 coordinating with Delta Science Program, CDFW, and DWR to improve sharing of data and monitoring opportunities, particularly regarding harmful algal blooms (HABs). With these agencies, staff are working on plans for restarting an Interagency Ecological Program (IEP) Project Work Team focused on HABs and options for increasing information distribution amongst the entities collecting data in the Delta.
- Board staff are part of a project team that is monitoring cyanotoxins in water and benthic organisms in the Delta. The first year of sample collection for the 2-year project was completed in August 2020. Board staff are participating in project tracking, reporting, and entry of data into CEDEN.
- Board staff are nearing completion of a report with calculations of mass loads of nitrogen and phosphorous entering and exiting the Delta. This work will update and extend previously published load estimates and will cover the period 2008-2019.
- Board staff collected samples for a project tracking occurrence and spread of strains of the cyanobacteria *Microcystis* in the Delta. This project is testing the hypothesis that *Microcystis* cells that overwinter in sediment at a few locations are driving summer blooms at these locations and elsewhere in the Delta. The project is funded by the State Water Board Freshwater HAB Program and supplemental environmental project funds administered by the Delta RMP.
- Board staff have been coordinating with Restore the Delta and San Francisco Baykeeper on HAB monitoring in Stockton.

SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION

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

12 July 2021 through 9 September 2021 indicate multiple excursions below the water quality objective of 6 mg/L from 4 September through 8 September 2021. On 7 September 2021 the Port of Stockton began operating the aerator and dissolved oxygen levels increased to consistently above 6 mg/L by 9 September. The aeration facility remains in operation as of 9 September 2021. The lowest dissolved oxygen concentration during any of the temporary excursions in this reporting period was above 5 mg/L which is unlikely to result in significant impacts.

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

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

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

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

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 MS4, wastewater and agricultural dischargers under the program to ensure success to meet the baseline monitoring and management plan requirements in the Control Program for Pyrethroid Pesticide Discharges.

The BPA required Municipal Separate Storm Sewer System (MS4) permittees under Pyrethroid TMDLs to submit Pyrethroid Management Plans by April 2020. Pyrethroid Management Plans (PMP) were submitted to the Board from the City of Roseville and the Sacramento Stormwater Quality Partnership. After Board staff review and revised versions were submitted to the Board, the PMPs for these two entities were approved on 4 March 2021.

In April 2020, the Sacramento County Stormwater Partnership submitted a Baseline Monitoring Report to comply with the BPA's requirements for baseline monitoring for Phase I MS4s. The Sacramento County's Stormwater Partnership's Baseline Monitoring Report was approved on 5 March 2021.

On 15 July 2020, Board staff sent orders under Water Code sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin Rivers 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 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. Two Phase 1 MS4 Baseline Monitoring Plans have been approved by the Executive Officer. A revised draft of the remaining Phase 1 MS4 Baseline Monitoring Plan is being reviewed by Board staff.

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 is being reviewed by Board staff.

Forty-Nine Phase II MS4 permittees have committed to preparing PMPs. As of 1 Sept 2021, 35 PMPs have been submitted. Board staff have begun reviewing the submitted PMPs. Four Phase II MS4 permittees have requested extensions ranging between two and six months. Two of these extension requests have been approved, and the other extension requests are under discussion. Board staff are following up with the ten Phase II MS4 permittees that did not submit PMPs by the 19 August 2021 deadline.

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

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

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.

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 beneficial use designations relating to California Native American Tribes were established by the State Water Board through Resolution 2017-0027, which 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. The new beneficial use definitions are Tribal Tradition and Culture (CUL), and Tribal Subsistence Fishing (T-SUB) (“Tribal Beneficial Uses”, or TBUs). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American Tribes (though it can be used by Tribal members, as applicable). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. 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.

Board staff drafted Basin Plan Amendment (BPA) to add the TBU definitions to the Basin Plans in 2021 and publicly released the draft BPA, Staff Report, and updates to the Basin Plans for public comment.

Board staff developed an approach to designate waterbodies for TBUs through input from Tribes and stakeholders during several meetings in spring 2021. The approach was presented to the Board at the June 2021 Board meeting. Several letters from the Tribes were sent to Board Chair Longley and/or Board staff expressing both support and concerns for the approach discussed during the June Board meeting. As a follow up to the letter received from the California Indian Environmental Alliance (CIEA) and Enterprise Rancheria, a meeting was organized in September to clarify the concerns raised in the letter. CIEA invited multiple Tribes to participate in that meeting. In an effort to address the concerns raised by Tribes and to address multiple Tribes’ needs and regulatory requirements, Board staff are discussing the approach to designate waterbodies for TBUs.

An invitation letter was sent out to all Tribal Chairpersons on 2 August 2021, inviting TBU designation requests and providing templates facilitating participation and information. These materials were also e-mailed out to the TBU Lyris listserv. While the letter does state deadlines by which Board staff hope to receive TBU designation requests and evidentiary materials, the Board will accept designation requests on a rolling basis.

Board staff applied for and were awarded a Civic Spark Fellow to support the TBU project, which began in September 2021.

Board staff continued participation in the TBUs Working Group, which has representatives from the nine Regional Water Boards and several divisions within the State Water Board (including the Office of Chief Council, Office of Public Participation, Division of Water Quality).

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

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

2021 TRIENNIAL REVIEW

The Triennial Review consists of the Board's solicitation of public comments on water quality issues in the Central Valley that may need to be addressed through basin plan amendments. The Triennial Review is summarized through a prioritized workplan that describes the actions the Board may take over the next three years to investigate and respond to these issues. The Board's solicitation process includes providing an opportunity for interested persons to provide written comments to the Board. Though the list of issues raised through the public solicitation process typically far exceeds available resources, the Triennial Review helps the Board identify and prioritize water quality issues that need to be addressed through the Basin Planning and TMDL Programs. Board staff intend to bring the 2021 Triennial Review Workplan to the Central Valley Water Board for adoption in February 2022.

On 24 March 2021, Board staff issued the [2021 Triennial Review Solicitation Notice](#)

(https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/triennialreviews/2021_tr_not.pdf)

with comments due by 10 May 2021. Board staff are currently developing the 2021 Triennial Review Workplan based on comments received and a response to all comments.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for control of biostimulatory substances 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. In addition to tracking the State Water Board process, Board staff are working directly with the Southern California Coastal Water Research Project to evaluate in detail the data and biostimulatory factor relationships in human-impacted streams and lakes and reservoirs in the Central Valley.

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 CV-SALTS Central Valley-wide Salt and Nitrate Management Plan (SNMP) was completed and submitted to the Board on 12 January 2017. A resolution acknowledging receipt of the SNMP and directing Board staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March 2017 hearing. Final copies of the [SNMP](#) and related policy documents can be found here:

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

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)

On 16 October 2019, the State Water Board adopted a resolution approving the SNCP amendments, along with a directive for the Central Valley Water Board to adopt targeted revisions to the amendments within a year of their approval by the Office of Administrative Law (OAL), which was on 15 January 2020. The SNCP was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency on 17 January 2020, except for the portions subject to the Clean Water Act, which were approved by the USEPA on 2 November 2020. Basin Plan amendments revising the Salt and Nitrate Control Program were adopted by the Central Valley Water Board on 10 December 2020 in [Resolution R5-2020-0057](#). The resolution can be found here:

(https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2020-0057_res.pdf)

The State Water Board approved these revisions to the Salt and Nitrate Control Program at their meeting on 1 June 2021 in Resolution 2021-0019.

The Notice to Comply letters for the Nitrate Control Program were sent out to Priority 1 permittees on 29 May 2020. Since that time, six Management Zones have formed to cover the six high priority sub-basins (Modesto, Turlock, Chowchilla, Kings, Kaweah and Tule), and each of them submitted Preliminary Management Zone Proposals (PMZPs) and Early Action Plans (EAPs) on 8 March 2021 to comply with the Nitrate Control Program. [PMZPs and EAPs](#) can be found here:

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

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

Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 1 September 2021)

EAP Metric	Total (all MZs)	Turlock/ Modesto	Chowchilla	Kings	Kaweah	Tule
Inquiries/Interest/calls	895	340	16	344	80	115
Size of Management Zone		Large	Small	Large	Small	Medium
Testing Applications Submitted	846	454	2	292	70	28
Ineligible	224	96	0	111	15	2
Not Responsive	207	162	0	22	22	1
Wells Tested/ Scheduled/ Known	359	159	2	162	14	22
Above 10 mg/L	171	68	1	81	8	13
Average Percent over 10 mg/L	48%	58%	50%	50%	57%	59%
Households receiving bottled water	199	72	1	87	21	18
Fill Station (FS) Locations	7	0	0	3	2	2
FS Average Gallons per Day	1,181	0	0	315	258	608
Total Households/ equivalents	790	-	-	-	-	-

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 this past quarter.

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

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

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. The next MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) will be held on 20 September 2021. USBR submitted a draft FY21/22 Work Plan on 21 May 2021. No public comments were received during the comment period in July 2021. [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 on California's 303(d) List as impaired due to indicator bacteria. To keep the public and local agency partners informed about current conditions, SWAMP has been collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. This effort is in

conjunction with a coordinated stakeholder study to collect DNA source identification samples and characterize the contributing sources of E. coli to the river. Sampling for Phase 1 of the study was completed in September 2020 and included ten sites on the American River and two urban runoff locations. An initial review of the data indicates that birds are the most consistent source of contamination in this reach. The DNA marker for birds was detected in 80% of the samples, while the marker for dogs was detected in 27% of samples and for humans in 9% of samples. Monitoring for Phase 2 of the study began in July 2021 and focuses on the river reach from Sutter's Landing Regional Park downstream to the confluence with the Sacramento River.

SUMMER 2021 RECREATIONAL BENEFICIAL USE ASSESSMENTS

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using E. coli as an indicator of fecal pollution. Board staff are planning their monitoring studies for the 2021 season, which include popular recreational spots in the upper San Joaquin River and the lower Kings River watersheds. An additional microbial source tracking study was also initiated in June 2021 in the Lone Tree Creek watershed, which has historically high levels of E. coli.

[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 [HAB related illness](#) tracking in California can be found:

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

SUMMER 2021 – 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 present.

A summary of cyanobacteria blooms for the period from 14 July 2021 to 10 September 2021 is provided in Table 1.

Cyanobacteria Table 1. Bloom Summary: 14 July 2021 through 10 September 2021

Category	Count
Number of Suspected Blooms Investigated since previous EO Report	62
Number of Confirmed Blooms* since previous EO Report	52
Number of Continuing Blooms* from previous EO Report	9
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	41
Number of Human Illnesses Reported since previous EO Report (under investigation) [‡]	8
Number of Animal Impacts Reported since previous EO Report (under investigation) [§]	3

*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.

‡Of the human illnesses reported, 3 was likely HAB related, 2 were either not HAB related or there was insufficient information to determine if it was HAB related, and 3 of the investigations are still in progress.

§Of the animal impacts reported, 1 was likely HAB related, 1 was either not HAB related or there was insufficient information to determine if the impact was HAB related, and 1 of the investigations is still in progress.

FOREST ACTIVITIES PROGRAM

GRANT

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

The Dixie Road project includes 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. Since the last update, all NEPA/CEQA permitting was 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. On the 14 July 2021 the Dixie Fire started north of the project site and the contractor was pulled off the project. The fire has not directly impacted Dixie Road, but there could be some indirect impacts to the project from indirect fire line and access for fire suppression. Once access is permitted to the site, we will complete an assessment and move forward. Currently, construction on the project resumed in August 2021 and is expected to remain on schedule throughout the 2021 season. (Closing 12/31/2021)

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 to streamline the permitting process. NPDES Tables 1 through 3, below, summarize the Notices of Applicability that have been issued to date for Fiscal Year 2021/2022 (1 July 2021 through 31 August 2021) 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

Facility	General Order Permit Number
None issued to date	R5-2016-0076

NPDES PERMIT Table 2 - Municipal General Order

Facility	General Order Permit Number
None issued to date	R5-2017-0085

NPDES PERMIT Table 3 - CAAP General Order

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

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

Nothing to report.

DAIRY ENFORCEMENT

Nothing to report.

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 Number R5-2017-0036-022 to Hathaway, LLC for the two ponds in Devils Den Oil Field.
- Issued a Notice of Violation to Binion Expiration & Development. This is an ongoing enforcement item.
- Issued a response that denied a request by Hathaway, LLC to extend specific deadlines identified in Notice of Applicability Order No. R-2017-0039-022.
- Issued a directive to Central Valley Waste Water, LLC, pursuant to Water Code section 13260, that requires a technical report describing the discharge at the facility.
- Issued a directive to Kern Front Section 35 Partners, pursuant to Water Code section 13267. This directive identifies dates for the Operator to submit a technical report that outlines the proposed tasks and time schedule to conduct a hydrogeological assessment and the results of the hydrogeological assessment.

During July and August 2021, Staff completed six inspections of oil field facilities. Staff is preparing reports for these inspections and finalizing reports from the 2020 calendar year, which will subsequently be sent to the Operators for record keeping. Due to the COVID-19 pandemic, staff is only conducting emergency inspections for spills or equipment failures.

Staff is also continuing to review monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality (General WDRs).

SPILL RESPONSE

Staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Staff were notified of twelve events in July and August.

A spill of crude oil occurred on the Tule 25A Fee facility operated by Crimson Resources Management (Crimson) in the Midway Sunset Oil Field on 11 July. According to OES, approximately 8.1 bbls (340.2 gals) of crude oil leaked from an oil production well due to a failed packing. On 11 August, Crimson staff told Staff that the spill has not affected any dry stream beds or natural drainage courses. Crimson staff added that cleanup of the affected areas was complete.

A spill of crude oil and oil field produced wastewater occurred on the DTR facility operated by Aera Energy, LLC (Aera), in the South Belridge Oil Field on 12 July. According to OES, a leak in a gathering line caused the discharge of approximately 8.7 bbls (365.4 gals) of oil and 78.1 bbls (3,280.2 gals) of produced wastewater to land. On 11 August, Aera staff told Staff that the spill affected a vegetated area but no ephemeral stream beds. Aera staff added that cleanup of the affected areas was completed. Aera staff provided photographs of the affected areas before and after cleanup.

A spill of crude oil occurred on the Rosedale Ranch Lease operated by Crimson in the Rosedale Ranch Oil Field on 12 July. According to OES, approximately 0.5 bbls (21 gals) of crude oil and a “trace” amount of produced wastewater leaked from an underground flow line into a paved parking lot that belongs to a trucking company. On 11 August, Crimson staff told Staff that the spill has not affected any dry stream beds or natural drainage courses. Crimson staff added that cleanup of the affected areas was complete.

A spill of a wetting agent fluid occurred on the Fairfield Water Plant facility operated by Berry Petroleum Company (BRY) in the Midway Sunset Oil Field on 14 July. According to OES, a container was damaged causing the discharge of approximately 1.1 bbls (45 gals) of a wetting agent chemical to land. On 11 August, BRY staff told Staff that the discharge affected a containment area and a flat area outside of containment. BRY staff also said that cleanup of the affected areas was complete. BRY staff added that no ephemeral stream beds or natural drainage courses have been affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on a facility operated by California Resources Corporation (CRC) in the Asphalto Oil Field on 19 July. According to OES, a ruptured produced wastewater line discharged approximately 0.5 bbls (21 gals) of oil and 500 bbls (21,000 gals) of produced wastewater into an ephemeral stream bed. On 19 July, CRC staff told Staff that the discharge has been stopped and cleanup of the affected areas was in-progress. CRC staff told Staff that the recovered fluids will be placed back in the wastewater stream for disposal. CDFW staff provided Staff with photographs showing the affected areas before and after cleanup. CRC staff provided Staff with historical data of geochemical analysis of the discharged fluids. CDFW staff conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup on 21 July.

A spill of crude oil occurred at well #56A-6D on a facility operated by CRC in the Buena Vista Hills Oil Field on 7 August. According to OES, a flow line leak caused the discharge of approximately 17 bbls (714 gals) of oil into land. On 12 August, CRC staff told Staff that no ephemeral stream beds or natural drainage courses have been affected by the spill. CRC staff added that staff of CDFW have been overseeing cleanup operations and cleanup was complete. CRC staff provided Staff with photographs of the affected areas after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Belridge Lease operated by Aera in the Lost Hills Oil Field on 12 August. According to OES, a flowline leak caused the discharge of approximately 33.1 bbls (1,390.2 gals) of oil and 99.3 bbls (4,170.6 gals) of produced wastewater to land. On 11 August, Aera staff told Staff that the discharged fluids affected a previously disturbed oil field areas and no dry stream beds have been affected by the spill. On 17 August, Aera staff told Staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on a facility operated by Aera in the Lost Hills Oil Field on 16 August. According to OES, a pump leak caused the

discharge of approximately 50 bbls (2,100 gals) of oil and produced wastewater to land. On 17 August, Aera staff told Staff that the discharged fluids affected flat areas and a section of highway 46 near the intersection with Brown Material Road. Aera staff added that no dry stream beds have been affected by the spill. Aera staff told Staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup.

A discharge of oil was reported in an open area near the Taft Correctional Institution, in the Midway Sunset Oil Field on 17 August. According to OES, approximately 0.24 bbls (10 gals) of oil were discovered seeping from the ground from an unknown source. Staff inspected the incident site on 18 August and observed what appeared to be chunks of semi solid oil and asphalt in an open area. The incident location is not within an oil production facility or near oil production wells. Staff did not observe evidence of oil-production flow lines or oil shipping pipelines within the immediate vicinity of the discharge location. Staff used a shovel to dig beneath the discharge location and found more asphalt at depths between six and twelve inches below the hard ground surface. Staff observed no active discharge at the time of inspection. Staff investigated the potential presence of active or abandoned shipping pipelines near the discharge location. Crimson Midstream Pipelines operates shipping pipelines in the general area, but according to their staff, there are no shipping pipelines near the immediate vicinity of the discharge location. Investigations to identify the source of the discharge are ongoing.

A spill of crude oil occurred on a pumping station near the intersection of highway 33 and Cadet Road operated by Crimson Midstream Pipelines (CMP) in the Midway Sunset Oil Field on 20 August. According to OES, a valve failure caused the discharge of approximately 0.11 bbls (4.5 gals) of oil from an out-of-service shipping pipeline into a concrete box. On 20 August, CMP staff told Staff the discharge was stopped, and cleanup was complete. CMP staff added that no dry stream beds or natural drainage courses were affected by the discharge.

A spill of crude oil and crude oil occurred on the Fellows Meter Station 31 facility operated by Chevron USA, Inc. (Chevron) in the Midway Sunset Oil Field on 28 August. According to OES, a leak in a pump station pipeline caused the discharge of approximately 2 bbls (84 gals) of oil to land. On 28 August, Chevron staff told Staff that the spill did not affect any ephemeral stream beds or natural drainage courses. Chevron staff added that cleanup of the affected areas was complete, and all oil-affected materials were removed and disposed of.

A spill of crude oil and oil field produced wastewater occurred at well #4D-36B on a facility operated by CRC in the Buena Vista Hills Oil Field on 29 August. According to OES, a wastewater line leak caused the discharge of approximately 0.5 bbls (21 gals) of oil and 98 bbls (4,116 gals) to land. On 30 August, CRC staff told Staff that the spill affected an ephemeral stream bed. CRC staff added that staff of CDFW have inspected the spill site and Patriot Environmental Services crews were conducting cleanup. Staff inspected the spill site on 31 August and observed the source of discharge and the areas affected by the spill. Staff observed cleanup crews working within the affected

areas. Staff observed that the affected areas appeared to be mostly clean during the inspection. On 7 September, CDFW staff told Staff that CRC completed cleanup and replaced the failed section of the source pipe. CDFW staff conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup on 7 September.

OIL FIELD FOOD SAFETY EXPERT PANEL

The final draft of the White Paper was posted to the Board's website in September 2021. A press release was also issued. Staff are continuing help facilitate the US Environmental Protection Agency's (EPA) work to develop novel methods to evaluate oil field produced water with a focus on produced water in Kern County being used to irrigate food crops.

UIC PROGRAM

During the period from 7 July 2021 to 14 September 2021, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – The California Geologic Energy Management Division (CalGEM) provided State Water Board staff and Staff a revised aquifer exemption application (application). Staff requested additional information regarding the application provided. CalGEM provided the additional information. Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Kern River Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the changes made in the revised application. Staff and State Water Board staff provided CalGEM with additional questions and concerns. Staff reviewed the additional information provided in response to the additional questions and concerns. Staff and State Water Board staff requested that CalGEM and the operators provide additional information. CalGEM provided the additional information.

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 – CalGEM provided State Water Board staff and Staff a revised application. Staff and State Water Board staff reviewed the revised application and determined that the questions and concerns raised by Staff were not addressed. State Water Board staff provided CalGEM with a summary of questions and concerns that still need to be addressed. Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Mt. Poso Dorsey Area Aquifer Exemption – CalGEM provided State Water Board staff and Staff a revised application and responses to initial questions. Staff is reviewing the

revised application and additional information provided. Staff are preparing an additional questions document regarding the additional information provided.

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. Staff is reviewing the information provided. In addition, Staff has requested additional information be provided regarding two hydrogeological characterization reports for the Lost Hills Oil Field.

Staff issued one 13267 Order requiring an Operator to perform a hydrogeologic investigations in the Elk Hills Oil Field.

Staff completed its review and sent its no objection letter to CalGEM regarding an Operator's request to conduct a water disposal project located in the South Belridge Oil Field. The water disposal project was proposed as part of the Operator's transition plan to move its current water disposal activities from the east side to the west side of the South Belridge Oil Field.

Staff received project information relating to an Operator's request to conduct a waterflood project located in the Elk Hills Oil Field. This waterflood project is being 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. In addition, Staff received a second project related to the Operator's request to conduct waterflood injection as part of its transition plan. Staff has reviewed the information provided and sent letters with its initial questions to CalGEM. CalGEM provided Staff with responses to Staff's initial questions. Staff sent letters and memorandums requesting additional information regarding the projects.

Staff issued nine no objection letters and memorandums for UIC projects in the Belridge, Brentwood, Cymric, McKittrick, and Midway-Sunset Oil Fields.

Staff sent three letters and memorandums requesting additional information for UIC projects in the Kern Front and Poso Creek Oil Fields.

Staff received responses to reviews performed for proposed water disposal, steamflood, and cyclic steam projects in the Antelope Hills, Edison, Fruitvale, Kern Front, and Midway-Sunset Oil Fields. Staff are reviewing the information provided.

Staff received project information relating to requests to conduct steamflood and cyclic steam projects in the Cymric, McKittrick, and Midway-Sunset Oil Fields. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Receipt of well stimulation applications from CALGEM has slowed and staff has been reviewing related groundwater monitoring reports. Where appropriate funds are

available, Staff in the SB-4 well stimulation unit have been helping with other oil field activities.

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 last meeting was held on July 14th and focused on the development of Groundwater Protection Values. The October stakeholder meeting has been canceled because the ILRP will be presenting updates during both the State Water Board meeting on October 5th and the Central Valley Water Board Meeting on October 15th. More information can be found on the Central Valley Water Board [ILRP website](#).

(www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml)

LOW-THREAT ALTERNATIVE ILRP FRAMEWORK

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

Based on an evaluation of the considerations listed above, the Board exempted the Goose Lake Subwatershed (Modoc County) from the Irrigated Lands Regulatory Program during the August 2021 Board Meeting.

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. ESJWQC members were required to monitor drinking water wells on enrolled parcels starting in 2019. Tulare Lake Coalition members were required to start sampling in 2020. In 2021 the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. Board staff is continuing to work with members by providing guidance and answering questions.

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 July and 31 August, 121 samples have been submitted to GeoTracker by 57 members/landowners from ESJWQC, San

Joaquin & Delta and the Western San Joaquin River Coalitions. Approximately 13 percent of samples exceeding the drinking water standard. During the same time period, staff sent 17 emails and 13 phone calls to members reminding them of the notification requirement. Out of 1081 drinking water well exceedances staff has received 1061 notification responses. Our outreach continues to indicate that many members of the Westside San Joaquin River Coalition are using bottled water. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary.

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 August 2021, there were 1,464 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,453 signed Drinking Water Notification Templates. From 1 July through 31 August staff have contacted 23 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

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 July 1- Aug 31
San Joaquin & Delta	82
Total	82

WATER CODE SECTION 13260 DIRECTIVES

Staff sends directive letters to owners of potential commercial irrigated lands identified through staff inspections of agricultural-zoned parcels. The directives require recipients to obtain permit coverage within 15 days of receipt. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	13260 Directives sent July 1- Aug 31
San Joaquin & Delta	46
Total	46

SACRAMENTO RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
GAR	Groundwater Assessment Report
GQTMP	Groundwater Quality Trend Monitoring Program
GW	groundwater
MPIR	Management Practices Implementation Report
MPU	Monitoring Plan Update
QAPP	Quality Assurance Project Plan
SW	surface water

CALIFORNIA RICE COMMISSION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
4/30/2021	Rice GQTMP Update	07/20/2021 Approved	none
6/24/2021	Rice QAPP Update	Under review	none

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/1	GQTMP AMR	Review letter sent 8/4	All components met requirements, except collection of field blanks.
5/1	AMR	7/20/21	
8/1	MPU	Under review	
8/12	Revised GW MPIR Strategy	Under review	
9/13	GAR Update	Under review	

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
GQTMP	Groundwater Quality Trend Monitoring Program
SW	surface water
AMR	Annual Monitoring Report
MPIR	Management Practice Implementation Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
WY	Water Year
GAR	Groundwater Assessment Report
MPU	Monitoring Plan Update

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/1/2021	Chlorpyrifos and Diazinon 2020 WY AMR	Complete Review sent 07/16	
5/14/2021	MPIR Templates Update	07/14/2021 Approved	
8/1/2021	Monitoring Plan Update	Under Review	Monitoring schedule for the 2022 Water Year
8/1/2021	Management Plan Completion	Under Review	Request to remove three chlorpyrifos management plans
9/1/2021	Quarterly Monitoring Data Report	Reviewed	January 1 through March 31, 2020 monitoring period
9/1/2021	AMPINAR	Under Review	2020 Crop Year

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/30/21	GAR Addendum	Under Review	Addresses staff comments from May 2021 meeting.
8/2/21	Monitoring Plan Update	Under Review	Annual MPU presented for the 2022 Water Year
8/21/21	Management Practices Evaluation Program (MPEP)	Submitted Staff Review to Coalition	The Memorandum provides an update on Phase 1 and 2 activities and plans for Phase 3.
8/31/21	Chlorpyrifos and Diazinon Monitoring Reduction Request	Under Review	Requests a monitoring/reporting reduction for banned chlorpyrifos
9/1/21	Quarterly Monitoring Report	Reviewed	Covers the Jan – Mar 2021 monitoring period

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
8/24/2021	AMR	Review underway	

GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
Not applicable			No updates

TULARE LAKE BASIN COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
GAR	Groundwater Quality Assessment Report
GQMP	Groundwater Quality Management Plan
GQTM	Groundwater Quality Trend Monitoring
SQMP	Surface Water Quality Management Plan

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
05/01/2021	2019 AMR & GQTM Report	Review Sent 07/28/2021	Satisfied General Order requirements

TULE BASIN WATER QUALITY COALITION

Deliverables and activities:

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

WESTLANDS WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
06/08/2021	SQMP & GQMP Progress Report	Review sent 07/13/2021	Staff acknowledged revised Focused Outreach time schedule

OTHER PROJECTS

GROUNDWATER PROTECTION FORMULA AND VALUES

On 19 July 2021, 13 ILRP Coalitions jointly submitted proposed Groundwater Protection Values for townships within designated High Vulnerability Areas. The values represent each township's total estimated N load (from irrigated agriculture) passing below the root-zone. Once approved, the values will be used to develop appropriate Groundwater Protection Targets for each township.

CV-SALTS IMPLEMENTATION

On 7 September 2021, Central Valley Water Board staff (Zaira G. Lopez-Narvaez and Eric Warren) attended the Tule Basin Management Zone Advisory Committee Meeting. Topics covered during the meeting included the Executive Officer's recent conditional approval of the Management Zone's Revised Early Action Plan and a progress update on community outreach efforts.

MANAGEMENT PRACTICES EVALUATION PROGRAM PHASE 3 TECHNICAL MEMO

On 1 July 2020, ILRP staff received the Northern MPEP Group Coordinating Committee's Phase 3 Technical Memorandum, which updates and amends the Group's initial MPEP Workplan. A review of the Phase 3 Technical Memorandum was provided to the Northern MPEP Group Coordinating Committee on 23 August 2021. The review recognized that the MPEP has been expanded to include the Groundwater Protection Formula, Values, and Targets elements that will be utilized to meet select MPEP requirements previously captured by Phase 3.

DATA MANAGEMENT

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

Staff has observed that there are several EDD data sets that have not been fully uploaded to CEDEN. Staff is preparing a list to provide to OIMA to reconcile those missing records.

The backlog for Kings River Watershed Coalition Authority is completed through 2018.

The backlog for Kaweah Basin Water Quality Association is complete for the Chemistry and Field data sets. Submittal of Toxicity data is pending additional information from Kaweah.

The backlog for Kern River Watershed Coalition Authority is up to date for Chemistry and Field data sets. Six toxicity datasets are being processed by the DMT.

GRASSLAND BYPASS PROJECT

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
04/29/2021	Annual Monitoring Report	Approved 09/07/2021	
07/28/2021	13267 Technical and Monitoring Report	Under review	

NORMAN’S NURSERY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/3/2021	Management Plan Progress Report (nitrogen)	Staff comments provided; 8/31 meeting	Awaiting revision

RICE PESTICIDES PROGRAM

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
Not applicable			No updates

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. There have been delays in this process due to restrictions caused by COVID-19. 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 will be summarized in an updated Technical Memorandum.

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 will next meet remotely on 23 September 2021. Meeting details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency’s [Blue Ribbon Committee website](#).

(resources.ca.gov/clear-lake/)

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

(www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml)

CANNABIS

GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff are currently focusing on increasing enrollments and enforcing upon the most egregious sites in the Targeted Priority Watersheds in Nevada County through 2021. Staff have developed a new enforcement tracker and are revising the permitting and compliance trackers with the assistance of the AGPA. CIPS 3.0 is expected to be available for staff starting in September/October 2021. The CIPS platform will assist staff with risk determination, site identification, and permit status.

Table 1. Summary of the Statewide General Order enrollments in the Central Valley Region to date

(CE = Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.)

Total Enrollments By County								
County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total
Calaveras	5	31	5	0	54	3	0	98
Colusa	3	1	0	0	2	0	0	6

Total Enrollments By County								
Contra Costa	2	0	0	0	1	0	0	3
El Dorado	0	3	0	0	3	0	0	6
Kern	1	0	0	0	0	0	0	1
Lake	56	140	3	0	270	3	7	479
Fresno	4	0	0	0	6	0	0	10
Merced	7	0	0	0	0	0	0	7
Nevada	27	284	4	2	23	0	0	340
Sacramento	155	0	0	0	0	0	0	155
Sierra	0	2	0	0	0	0	0	2
Solano	4	0	0	0	0	0	0	0
Shasta	14	0	0	0	0	0	0	14
Siskiyou	6	0	0	0	0	0	0	6
Stanislaus	29	7	0	0	3	0	0	39
Tulare	6	0	0	0	0	0	0	6
Yolo	2	18	0	0	46	0	0	66
Yuba	2	0	0	0	0	0	0	2
Total								
	323	486	12	2	408	6	7	1240

OUTREACH

REDDING

Staff are scheduling outreach events in Lake and Nevada Counties for October 2021 to discuss winterization measures required by the General Order.

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

Two CDFW lieutenants retired in the past two months creating some challenges in workflow for warrant inspections. Staff coordinates regularly with LE in an effort to keep the program focus on sites prioritized by our staff, Div. of Water Rights, CDFW, and County Code and Law Enforcement. Cannabis Enforcement Lead Michael Buckman is communicating directly with CDFW management to message the coordination processes.

In June 2021, Staff issued 13260 Orders to unenrolled cultivators in the Squirrel Creek watershed in Nevada County, just west of Grass Valley. Staff coordinated the effort with the Division of Water Rights who have identified six of the 12 sites as having potential violations. Staff are currently processing the responses to the enrollment enforcement batch.

13260-Order Project Analysis		
Status	Total	Next Steps
Enrolled/Applied/intention to enroll	3	Follow-up if NOA not issued
No longer cultivating	6	Staff to verify no longer cultivating
No response	3	Verify cultivation status; issue NOV if cultivating without permit

COMPLIANCE

Staff work closely with dischargers to answer site specific questions related to the General Order to encourage compliance. There were three compliance inspections performed during August and September in Lake County in coordination with CDFW.

ENFORCEMENT

Staff are performing follow up enforcement activities on the remaining cases that were brought forward after the backlog reduction task. Staff conducted inspections in Nevada County on 7/09/2021 and in Shasta County on 09/02/2021. Redding staff coordinated with OE staff to assist in completing inspections in Shasta County on 9/10/21.

The enforcement inspections on 7/09/2021 in Nevada county resulted in three reports sent out on 08/05/2021 - 08/06/2021. Corresponding draft NOV/13267 are in progress for all three.

The enforcement inspections on 09/2/2021 are in the draft phase of their reports.

OE staff are drafting the inspection reports for the inspections in Shasta county on 09/10/2021.

Inspection Reports issued in Nevada County:

- Wood: 8/05/2021
- Aguillon: 8/06/2021
- Vitello: 8/06/2021
- Green: 9/2/2021
- Chandler: 9/15/2021

13267s Issued in Shasta County

- Sisomsouk Property 13267 issued 08/27/2021

- Hurley Property, 13267 issued on 09/01/2021

13267s Issued in Nevada County

- Wood Property, in management review, expected issuance 09/17/2021
- Aguilon/Clayton, in management review, expected issuance 09/17/2021

GOVERNOR'S OFFICE CANNABIS ENFORCEMENT CONVENINGS

N/A

GRANTS

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

In 2012 the greater Battle Creek watershed was impacted by the Ponderosa wildfire. The resulting increases in post fire stormwater runoff has led to continual discharges of sediment, metals, nutrients, and other pollutants to the adjacent streams, threatening aquatic wildlife (threatened and endangered species) and public health (drinking water). A 3.5 mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E (Project Area), was identified and prioritized as an area which needed sediment and erosion control treatments to minimize the continued discharges of sediment to South Fork Battle Creek. In 2019 a grant application proposal was prepared by the Tehama County Resource Conservation District (TCRCD) and was submitted to the State Water Resource Control Board (SWRCB). The proposal outlined implementation of the identified erosion and sediment control measures for the Project Area. In April 2020, the SWRCB approved the use of CWA 319 grant funds for the proposed project. In August 2020, the TCRCD submitted an updated Statement of Work and Budget to the SWRCB for review and consideration. The grant agreement was executed (signed and approved by SWRCB Division of Financial Assistance) on 30 June 2021, allowing this project to proceed as planned. The grantee has begun working to finalize preliminary design plans and preparation of a Project Assessment and Evaluation Plan (PAEP), (Closing 2/28/2023)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

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

The Western Shasta Resource Conservation District (WSRCD) has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. As a result, the grantee compiled a Final Action Plan describing 90 site-specific, road-related sediment inputs from the prioritized road assessment inventory. A technical advisory

committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works participated in on-site training that resulted in completion of two demonstration sites along Rock Creek Road and Forward Mills Road during Summer 2020. From October 2020 to May 2021, the grantee developed a construction bid package, advertised a request for competitive bid proposals, obtained public agency permits (California Department of Fish and Wildlife and Central Valley Regional Water Quality Control Board), and secured an encroachment permit from Shasta County to allow implementation of additional demonstration sites along Rock Creek Road. Time delays experienced during the competitive bid proposal and permitting processes, due to COVID-19 pandemic restrictions, prompted the grantee to request a time extension to 28 February 2022. The additional demonstration sites were completed in July 2021. As of September 2021, the time extension request is pending approval. (Closing 10/31/2021)

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 have 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 has progressed without any major delays or deviations. With construction work completed, the grantee has continued to focus on post-project monitoring and project management. The grantee has completed timely invoicing, progress reports, and has also completed the Non-Point Source Pollution Reduction Project Follow-up Survey Form. (Closing 2/28/2022)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy (ARC) has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. Due to high wildfire danger during the summer of 2020, the grantee failed to reach a 400-acre thinning goal. The grantee hopes that this goal can be surpassed in the 2021 season if weather conditions permit. At this time, the grantee has bid approximately 600 acres for completion during the 2021 season. ARC has secured permits for road work and a bridge removal in Greyhorse valley and thinning Contractors mobilized equipment and began mastication work on 1 June 2021. Due to a number of factors such as COVID related delays, lack of contractor capacity, lack of resource availability (parts, materials, extended wait periods for mechanical support on equipment) and limited work days due to fire danger restrictions ARC will likely be seeking a time extension work completion requirements. ARC will continue to work to

mitigate these issues to complete the project within a reasonable timeframe. (Closing 3/30/2022)

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 is currently working with contractors, CA Department of Fish and Wildlife (CDFW), and the Regional Water Board on the preparation of environmental permit applications which was slightly delayed while addressing a public concern. The grantee has completed final design specifications as well as started road and trail inventories for the second phase of the project. A draft Mitigated Negative Declaration (MND) was prepared and is currently under review by city of Chico staff and engineering staff are currently reviewing the draft bid documents. Public noticing of environmental documents is expected to be issued by the end of September 2021 (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. (Closing 6/30/2023)

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).

State Water Board and the Regions are in the process of developing the 2022 Grant Solicitation Guidelines, which will be released in Fall 2021. Once released, a copy of the Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage](http://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html).

(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)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

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

In June 2021, the Interstate Technical Regulatory Council published an update to its on-line document *Per- and Polyfluoroalkyl Substances (PFAS)*. This update included a new section on surface water quality developed by a group co-led by Alex MacDonald, and Linda Logan of TerraPhase. This new section included discussions on establishing water quality objectives, development of human and ecological health values, sampling and analysis and PFAS containing foam. Updates to the section will be completed for the next update of the document in 2022.

*On 17 June 2021 George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Clear Creek Technical Team (CCTT) virtual meeting. The CCTT team is generally comprised of representatives from various Federal and State agencies, and regional resource conservation districts. The purpose

of the CCTT is to facilitate the implementation of the Central Valley Project Improvement Act (CVPIA) and CALFED Bay-Delta Program (CALFED) restoration actions to improve salmon and steelhead habitat and the ecosystem on which these species depend on within Clear Creek.

Participants discussed a variety of restoration and in stream flow management activities. The U.S. Fish and Wildlife Service provided a brief review of their fisheries monitoring efforts of spring run Chinook Salmon. The U.S. Bureau of Reclamation (USBR) discussed flow management activities for the 2021 Water Year which included an update on pulse flows from Whiskeytown Dam and impacts to Clear Creek and possible changes due to drought conditions. Restoration project updates from the USBR included ongoing gravel augmentation projects, Phase 3B revegetation efforts, and discussion of decreased CVPIA funding for restoration projects due to lower than normal revenue from power generation. The USBR also discussed hydraulic modeling efforts and the need for more bathymetry data to complete the model. Lastly the California Department of Fish and Wildlife provided an overview of recent drone surveys they conducted in efforts to collect pre pulse monitoring data. The goal of this survey was to capture water surface elevation, velocity, and water depth changes through the Clear Creek gorge.

*On 29 July 2021, 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 2-4 August 2021, Elizabeth Betancourt and Adam Laputz participated in a field tour with Tribes in the Clear Lake basin. The major topic of discussion was TBU designations, though conversations included water quality protections and the history of Tribes in the Clear Lake basin.

On 17 August 2021, Robert Ditto participated in CDFA's Grower Training Ad Hoc Committee meeting. The Committee is working to guide the redevelopment of the Grower Training associated with grower certification of the Irrigated Lands Irrigation and Nitrogen Management Plans. Robert is participating in developing the performance objectives for several sections of the grower training.

On 17 August 2021 George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Greater Battle Creek Watershed Working Group (GBCWWG) meeting. The GBCWWG is generally comprised of various stakeholders such as landowners, Federal and State agencies, and regional resource conservation districts. The purpose of the GBCWWG is to add in facilitating, identifying, reviewing, and coordinating restoration activities within the watershed. The GBCWWG meets quarterly to discuss items of interest related to activities within the Battle Creek watershed. In efforts to track and prioritize issues of concern to the group they have developed an Issues Tracking Spreadsheet. This spreadsheet is used to highlight concerns that members of the group have and is used to prioritize, track status and resolutions of any issues identified within the group. This quarters meeting participants

reviewed and discussed the spreadsheet and provided updates to each of the issues. Additionally, individuals from the newly reformed Battle Creek Conservancy provided an update on their organization and their future involvement in the GBCWWG.

*On 18 August 2021 Robert L'Heureux and Elizabeth Betancourt met with staff from the Santa Rosa Tachi Yokut Tribe to discuss TBU designations.

*On 19 August 2021, Sue McConnell, David Sholes, Eric Warren and Sue Yang met with representatives from Clean Water Action, Leadership Counsel for Justice and Accountability and Environmental Law Foundation to discuss the proposed Groundwater Protection Values and alternative nitrogen reporting for the Kings River Watershed Coalition.

*On 26 August 2021, 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 30 August 2021, Lauren Smitherman participated as a guest on an Instagram Live session of Ask-Me-Anything, hosted by the Lead Scientist of the Delta Stewardship Council's Delta Science Program. This session, also co-hosted by Delta Science Program's Program Manager, Dylan Stern, was focused on the Scientific Peer Review process and outcomes of the recently released Review Panel's Final Report of the Delta Mercury Control Program's Control and Characterization Studies.

*On 1 September 2021, Elizabeth Betancourt facilitated a meeting between the California Indian Water Commission (a federally recognized Indian Organization) and Lomakatsi Ecological Services (a consulting business specializing in indigenous-based environmental and policy methodologies and topics). The topic of discussion was TBU designations and the need for coordination within Tribal organizations and between Tribes.

*On 2 September 2021, Patrick Pulupa, Meredith Howard, Elizabeth Betancourt, and Robert L'Heureux, as well as staff from the State Water Resources Control Board's Office of Public Participation and Office of Chief Counsel met with the California Indian Environmental Alliance (CIEA) and additional California Native American Tribes invited by CIEA to discuss TBU designations.

On 14 September, Alex MacDonald provided a presentation on the Aerojet groundwater contamination in Carmichael to the Carmichael Rotary Club. The presentation focused on the plumes of n-nitrosodimethylamine that have crossed under the American River from Aerojet into eastern Carmichael and the status of the remediation efforts regarding them. This included the installation of two extraction wells and associated treatment plants. Treated groundwater from one of those facilities was used to irrigate the adjacent Ancil Hoffman Gold Course.

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 in July 2018.

The Delta Regional Monitoring Program (Delta RMP) is undergoing modifications to the governance structure, program structure, and implementing entity, which require approval by the Central Valley Water Board. The new Delta RMP Board of Directors created CEC Quality Assurance Project Plan (QAPP) Advisory Committee to update, review, and finalize the QAPP for Year 2 monitoring. Updates to the QAPP include updating logistics plans for Year 2 of the Work Plan based on changes to the Delta RMP structure and lessons learned from Year 1 of the Work Plan. The QAPP will also be updated to add four locations for source water monitoring and additional analytes expected to be reported. Central Valley Water Board staff are also continuing to work with the new program structure to make Year 1 data available in the California Environmental Data Exchange Network.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – 1 JULY 2021 – 30 AUGUST 2021

PROMOTIONS:

Kristen Shelton - Sr. WRCE
Kristen Gomes - Sr. WRCE
Stacy Gotham - Sr. WRCE
Walter Floyd - Sr. EG
Marissa Bosenko - AGPA

NEW HIRES:

None

RETIREMENT:

Jong Han - EG

SEPARATIONS:

Heidi Lanza - WRCE
Rebecca Tabor - WRCE
Tyler Pelkofer - WRCE

LEAVE OF ABSENCE:

None

SUMMARY OF POSITIONS:

Total Authorized Positions: 276.2
Total Vacant Positions: 30.2

Sacramento

Authorized Positions: 154.5
Vacancies: 19.2

Fresno

Authorized Positions: 73
Vacancies: 6

Redding

Authorized Positions: 48.7
Vacancies: 3

NEW HIRES:

Sara Gevorgyan - SA
Emily Tuggle - SC

SEPARATIONS:

Matthew Chan - SA
Kristen Aschenbrener - SA
Natalie Bainbridge - SA

TRAINING UPDATES - 1 JULY 2021 – 31 AUGUST 2021

Class Title	Number of Attendees
4-Hour Field Safety Training	1
Adobe ACBT-B	1

Class Title	Number of Attendees
AP106 - Fundamental Inspector Course	1
Basic Acquisition Training	1
CA Leadership Academy - Supervisor Development Program (80 Hours)	2
Effective Agricultural Practices to Address Nitrate in Groundwater Sources of Drinking Water	1
Emotional Intelligence in Leadership/WLP 201	1
Equal Employment Opportunity (EEO): Workplace Rights and Responsibilities (SB1343) webinar	1
Essential Analytical Skills	2
Field Safety Training	5
GEOS 408: Structural Geology	1
Groundwater Modeling	2
Harassment Prevention Webinar	1
Highly Effective Professional Writing	2
Interpersonal Communication Skills	2
Introduction to Applied Statistics	5
Introduction to GIS	12
Introduction to R for Water Resources Data Science: Unleashing Your Potential to Work with Any Kind of Data	1
Introductory Public Speaking	1
Microsoft Excel Level 1	1
Microsoft Word Level 2	2
PFAS Transport, Fate and Remediation in Soil and Groundwater	9
SB 1343 Supervisor - Sexual Harassment and Abusive Conduct Prevention Training	1
Sexual Harassment Prevention	5
Statement of Work Webinar	1
Statistics Refresher	7
Time Management	7

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	TBD	6/30/2022	\$9,275

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	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	6/30/2022	\$525,000
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing	12/1/20	11/30/2023	\$250,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
		within Keswick Reservoir.			
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
21-026-150	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin River, Sacramento River and Delta system.	TBD	3/31/2024	\$100,000
22-003-150	University of Davis	Tribal Beneficial Uses	TBD	1/31/2025	\$170,000

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.

DECEMBER 2021 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto WWTF (Revised)
- Rivermaid Trading Company (Revised)
- Triangle Rock Products (Amended)

TITLE 27 PROGRAM

- SPI Martell (Revised)
- Fairmead Landfill (Revised)

NPDES PERMITS

- Limited Threat General Order Renewal
- City of Lathrop WWTP (New Permit)
- CDCR Deuel Vocational Institution (DVI) Amendment

FEBRUARY 2022 BOARD MEETING DATE

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bronco Winery (Revised)
- Pilot Travel Center (Revised)
- Ingelby Pistachio (New)
- Farmersville WWTF (Revised)

TITLE 27 PROGRAM

- Forward Landfill (Revised)
- Bert Crane Landfill (Revised)

NPDES PERMITS

- City of Chico WPCP Renewal
- Sliger Mine Renewal
- North Valley Regional Recycled Water Program Renewal
- City of Modesto Renewal
- City of Colusa Renewal
- Sterling Caviar Renewal
- City of Willows WWTP Rescission
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)

APRIL 2022 BOARD MEETING DATE

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Morning Star Packing Company (Revised)

TITLE 27 PROGRAM

- Rio Vista Landfill (Revised)
- Sierra Conservation Center (Revised)

- Woodville SWDS (Revised)

NPDES PERMITS

- American Valley WWTP Renewal
- City of Auburn WWTP Renewal
- City of Corning WWTP Renewal
- River Highlands CSD Hammonton Gold Village WWTP Renewal
- City of Nevada City WWTP Renewal
- Sierra Pacific Industries Shasta Lake Division Renewal
- Tehama CSD #1 Mineral WWTP Renewal
- City of Modesto WQCF Rescission

PENDING ACTIONS NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- General Order for Large WWTF (New)
- General Order for Nut Hullers & Processors (New)
- General Order for Food Processors (New)
- California Olive Ranch – Artios (Revised)
- CDCR Mule Creek State Prison WWTF (Revised)
- City of Ceres WWTF (Revised)
- City of Dinuba WWTF (Revised)
- City of Madera WWTF (Revised)
- Kern Sanitation District WWTF (Revised)
- Kettleman City WWTF (Revised)
- Sierra Nevada Cheese (Revised)
- Sonora Regional WWTF (Revised)
- Sun Pacific Exeter Packinghouse (Revised)

TITLE 27 PROGRAM

- Dixon Pit Landfill (Revised)
- Steele Canyon Landfill (Revised)
- SMS Briners (Revised)

NPDES PROGRAM – PERMITTING

- Bear Valley Water District WWTF Renewal
- Mountain House CSD WWTP Amendment
- Bear Valley CSD WWTF Renewal
- City of Angels WWTP Renewal
- Boeing GWETS Renewal

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 July 2021 through 31 August 2021

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	57	48%
Debris-General	19	16%
Grease Deposition (FOG)	8	7%
Vandalism	6	5%
Debris from Lateral	5	4%
Debris-Rags	4	3%
Debris-Wipes/Non-Dispersables	3	3%
Other (specify below)	3	3%
Pipe Structural Problem/Failure	3	3%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	2	2%
Pump Station Failure-Controls	2	2%
Construction Diversion Failure	1	1%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	1	1%
Debris from Construction	1	1%
Flow Exceeded Capacity (Separate CS Only)	1	1%
Operator Error	1	1%
Pump Station Failure-Mechanical	1	1%
Total	118	100%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 July 2021 through 31 August 2021

Office	Category 1	Category 2	Category 3	Total
5F	1	0	8	9
5R	0	0	0	0
5S	6	2	101	109

Office	Category 1	Category 2	Category 3	Total
Total	7	2	109	118

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 July 2021 through 31 August 2021

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	874259	Sacramento	Yes	4,273	3,992	5/18/2021 1	Debris from Lateral		
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	874946	Sacramento	Yes	5,157	3,093	6/21/2021 1	Vandalism		
5F	Twain Harte CSD	Twain Harte CSD CS	874950	Tuolumne	Yes	1,680	1,380	6/23/2021 1	Root Intrusion		
5S	Jackson City	City of Jackson CS	874323	Amador	Yes	397	397	5/25/2021 1	Root Intrusion		

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	874711	Sacramento	Yes	233	161	6/11/2021	Grease Deposition (FOG)		
5S	Oakdale City	Oakdale CS	874866	Stanislaus	Yes	139	65	6/22/2021	Debris-General		
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	874803	Sacramento	Yes	47	8	6/17/2021	Root Intrusion		