

**California Regional Water Quality Control Board
 Central Valley Region
 Pamela C. Creedon, Executive Officer**



**EXECUTIVE OFFICER’S REPORT
 OCTOBER 19/20, 2017**

ITEMS IN THIS REPORT

SUCCESS STORIES	2
STAFF RECOGNITION	10
ENFORCEMENT	18
SANITARY SEWER OVERFLOWS, COMPLAINTS AND SPILLS.....	22
SITE CLEANUPS	23
DELTA ACTIVITIES	24
TMDL BASIN PLANNING	26
SALINITY AND CV SALTS	27
NPDES	29
DAIRIES/CONFINED ANIMAL FACILITIES	30
OIL FIELDS	31
GROUND WATER STRATEGY	33
IRRIGATED LANDS REGULATORY PROGRAM (ILRP).....	36
NON POINT SOURCE (NPS).....	44
GRANTS	48
GENERAL.....	50
PUBLIC OUTREACH	51
PERSONNEL AND ADMINISTRATION.....	55
FUTURE BOARD ACTIVITIES	62
SIGNIFICANT POLICIES, PLANS AND PERMITS TABLE.....	65

SUCCESS STORIES

Pesticide Basin Planning/TMDLs

- **Basin Plan Amendment for the Control of Diazinon and Chlorpyrifos Discharges – Now Fully Approved and Effective.** On 16 August 2017, USEPA approved the new water quality objectives for the pesticides diazinon and chlorpyrifos that were established in the Amendment to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins for The Control of Diazinon and Chlorpyrifos Discharges (Basin Plan Amendment). The Basin Plan Amendment is now fully approved and effective. This Basin Plan Amendment was approved by the Central Valley Water Board on 28 March 2014, the State Water Resources Control Board on 16 June 2015, and the Office of Administrative Law on 8 March 2017.

This Basin Plan Amendment established water quality objectives and implementation and monitoring requirements to protect water bodies in the Sacramento and San Joaquin Valleys from impairment due to discharges of diazinon and chlorpyrifos associated with uses of these pesticides in agricultural operations and in urban areas. The goal of the Amendment is to reduce diazinon and chlorpyrifos concentrations in Sacramento and San Joaquin Valley water bodies to levels that are protective of aquatic life (WARM and/or COLD) beneficial uses. For more information:

http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/index.shtml

- **Milestones Reached at Former McClellan Air Force Base for Property Transfer and Site Cleanup, Sacramento County.** In September the Air Force Civil Engineer Center is scheduled to execute the transfer of approximately 927 acres and 40 facilities comprising the Airfield Finding of Suitability to Transfer (FOST) at the former McClellan Air Force Base (McClellan) that includes the active airfield and open areas. Most of the Airfield FOST properties will be transferred by deed to McClellan Business Park, LLC (MBP) and the rest to Sacramento County. The Ecological Sites FOST is also nearing completion that will execute the transfer to MBP of approximately 265 acres and 16 facilities on the west side of McClellan also known as the West Nature Area, a natural preserve area. Other property included in the Ecological Sites FOST is the small arms firing range (SAFR) and Confirmed Site 024, a former disposal pit. These property transfers represent a major milestone for the former Air Force base that was closed in 2001. Of the approximately 3,458 total acres at McClellan, approximately 3,187 acres are now transferred, or very near transfer. The Ecological Sites FOST property is scheduled to be transferred to MBP (and a portion to Sacramento County) by the end of 2017.

In July, the privatized Finding of Suitability for Early Transfer #1 (FOSET #1) Group 4 Remedial Investigation and Feasibility Study (Group 4 RI/FS) was completed for 16 Installation Restoration Program sites at McClellan. The completion of the Group 4 RI/FS represents the last 16 sites at McClellan requiring remedial investigation and feasibility studies in the superfund cleanup process. The next step is to select final remedies for the 16 sites in a Record of Decision scheduled for completion in 2018. The Group 4 sites underwent transfer from the Air Force to MBP with privatized cleanup in 2009.

- **Notice of Applicability**
From 3 July to 15 September, 39 Notices of Applicability were issued to growers in the Tulare Lake Basin Area, which confirmed the enrollment of 5,643 irrigated acres. Approximately 44% of the applications for coverage were voluntarily submitted by growers, and 56% were submitted in response to enforcement activities conducted by Water Board staff.

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

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

party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

- **Sacramento Valley Water Quality Coalition**

During August 2017, the Executive Officer approved the completion of three management plans for the Sacramento Valley Water Quality Coalition (Coalition), including *Hyaella azteca* sediment toxicity in Z-Drain, malathion in Willow Slough at Pole Line Road, and malathion in the Lower Colusa Basin Drain. The management plans were implemented to eliminate pesticide and toxicity water quality problems caused by the discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of pesticide management practices implemented by growers include following county permits and label restrictions, monitoring wind conditions, and use of a Pest Control Advisor. Specific irrigation practices for managing sediment and erosion include use of shorter irrigation runs, lengthening the time between pesticide application and next irrigation as much as possible, and use of in-furrow dams to increase filtration and settling out of sediment. Specific cultural practices implemented include use of amendments and deep ripping to increase soil water penetration, grading, direction and length of rows developed to optimize irrigation water, and use of field borders to capture storm water. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

SITE CLEANUP- SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

- **Former Lesco, 2829 W Washington Str., Port of Stockton, San Joaquin County**

The site had been a fertilizer distribution facility operated by various entities prior to 1985 through 2005, when Lesco closed this site in the Port of Stockton. In 2007, Deere & Company purchased the site and accepted the environmental liability. In 2011, Deere excavated about 7720 cubic yards of soil containing nitrate and ammonium. By 2017, groundwater concentrations decreased substantially and met water quality objectives for nitrate on-site, and were expected to meet water quality objectives off-site by 2021. The site received a No Further Action Determination date of 27 June 2017. (AST)

- **Arbuckle Ammonium Spill, south of Tule Road near Lodi Road, Arbuckle, Colusa County**

In 2013, 7,000 gallons of ammonium were released to soil from a tank situated on a staging area on a levee road adjacent to rice fields. The release was contained on the levee and did not enter surface water or groundwater. To enhance insitu biodegradation, soil was excavated, mixed with wood chips and replaced. By 2017, the concentration of nitrogen in soil had decreased such that cleanup objectives were expected to be met in 2018. The site received No Further Action status on 31 August 2017. (AST)

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. Investigation and remediation work, therefore, may be discontinued and no further action is required. 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. Upon completion of corrective action, §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.

a) **FRESNO OFFICE**

- **Star # 1 Mart, 1506 Second Street, Selma, Fresno County**

The Site is currently a convenience store with retail motor fuel sales, where a petroleum release impacted soil and groundwater. Gasoline and diesel UST's and associated product piping and dispensers were removed from the Site in March 2005.

Since May 2007 through April 2012, soil borings, soil vapor extraction wells, and ten groundwater monitoring wells were installed at the Site. The highest concentrations of petroleum hydrocarbon impacted soil was present in the vicinity of former UST's location, to depths ranging from 15 feet to 35 feet below ground surface (bgs). The total mass of TPHg was estimated to be approximately 1,012 pounds.

Soil vapor extraction was conducted from May 2015 through January 2016, which has reportedly removed approximately 1,276 pounds of TPHg. According to the groundwater data, water quality objectives have been nearly achieved for all constituents.

A well survey reported ten active water supply wells within one half-mile of the Site, but no public water supply wells, domestic wells, or surface water bodies within 250 feet of the plume boundary. The unauthorized release is located within the service area of a public water system.

Any remaining petroleum hydrocarbons at the Site 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 on 26 July 2017 in accordance with criteria contained in the Low-Threat UST Case Closure Policy.

- **Thompson Motor Sales, 3709 East Belmont Avenue, Fresno, Fresno County**

The Site contains an automobile sales and service building within an area of commercial and light industrial development. The nearest active water supply wells and surface water bodies are more than 1,000 feet from the Site. Groundwater is estimated to be approximately 150 feet bgs beneath the Site, and flows toward the northwest.

In November 1991 an unauthorized release of petroleum products was discovered at the Site during the removal of an underground storage tank (UST) system. The Fresno County Division of Environmental Health (FCDEH) issued an Underground Storage Tank Unauthorized Release (Leak) / Contaminated Site Report establishing the case on 31 December 1991. On 26 September 2007, the FCDEH referred the case to the Central Valley Water Board for regulatory oversight.

A soil investigation conducted at the Site in December 2016, did not detect any evidence of soil impacted with petroleum hydrocarbons, which suggested that the release detected was minor, perhaps the result of a small quantity spill during the UST removal action. Any petroleum hydrocarbons remaining would be confined to depths below 7.5 feet and above 15 feet bgs, and would have been significantly attenuated with the passage of time. The case was closed on 10 July 2017 in accordance with criteria contained in the Policy.

- **Dauer Petroleum, 4640 North Biola Avenue, Biola, Fresno County**

The Site contains a former commercial fueling facility in an area of commercial and residential development. Groundwater is estimated to be at least 60 feet below ground surface beneath the Site. There are no public water supply wells or surface water bodies within 1,000 feet of the Site.

On 10 August 2016, two 4,000-gallon USTs, two 7,000-gallon USTs, associated fuel dispensers, and underground fuel delivery piping were removed. Analytical results of soil samples collected beneath the former UST locations, indicated concentrations of petroleum hydrocarbons. Considered evidence of a release of petroleum products from the UST system, the Fresno County Division of Environmental Health issued an Underground Storage Tank Unauthorized Release (Leak)/Contaminated Site Report on 13 September 2016, and it was referred to the Central Valley Water Board for regulatory oversight..

An investigation, conducted in December 2016, determined that the release was between 10 and 18 feet bgs within the area of the former USTs, and was approximately 755 pounds of petroleum product. The absence of detectable concentrations of petroleum product constituents at depths greater than 20 feet, indicates a buffer zone between the contamination and groundwater of at least 30 feet, with no impacts to groundwater. The absence of detectable concentrations of constituents of concern in the soil vapor indicates the threat due to indoor air intrusion is low. The case was closed on 15 August 2017 in accordance with criteria contained in the Policy.

- **Former Sieberts' Oil Company (2nd Release), 2837 North Parkway Drive, Fresno, Fresno County**

The Site was formerly occupied by a commercial fueling facility and is currently owned by the State of California, Transportation Department (CalTrans), and is scheduled to be the location of the new alignment of State Highway 99. Depth to groundwater in March 2011 was approximately 105 feet below ground surface. There are no surface water bodies or municipal water supply wells within 1,000 feet of the Site.

A prior release was discovered at this Site during a UST removal in 1998 which was investigated between 2001 and 2012, and closed in November 2013. The investigation of the prior release determined that the majority of the significantly impacted soil was between 5 and 35 feet. The investigation also included groundwater monitoring between December 2007 and March 2011, which determined that the prior release had not impacted groundwater.

On 22 July 2016, three USTs, associated dispensers and product delivery plumbing were removed from the Site. Analytical results of soil samples collected from beneath the USTs and associated equipment indicated concentrations of petroleum hydrocarbon constituents. Considered evidence of a second release of petroleum products from the USTs, the Fresno County Division of Environmental Health issued an Underground Storage Tank Unauthorized Release (Leak) / Contaminated Site Report on 22 July 2016, and referred the case to the Central Valley Water Board for regulatory oversight.

During the UST removal action in July 2016, impacted soil was removed from the bottom of the UST excavations to a depth of 20 feet bgs, with approximately 4,450 tons of soil transported for disposal at a Class III Landfill. The excavations were then backfilled with clean material.

Soil assessment work conducted in October 2016 estimated that approximately 5,590 pounds of petroleum hydrocarbons (primarily diesel fuel) remain in the subsurface soil at the Site. The impacted soil is primarily in the vicinity of the former location of the northern UST and does not extend offsite. There is more than 40 feet of non-impacted soil between the impacted soil and the estimated depth of groundwater.

CalTrans has submitted a certified document that the location where concentrations of diesel exist in soil will be beneath pavement following construction of the new alignment of State Highway 99. Therefore, direct contact and volatilization to outdoor air will be unlikely. There will be no occupied buildings constructed on the Site. The case was closed on 10 August 2017 in accordance with criteria contained in the Policy.

- **Downtown Auto Supply, 405 West "D" Street, Lemoore, Kings County**

The site is currently a commercial and residential property but was formerly an automotive service station with retail fuel sales. An unauthorized gasoline and diesel fuel release to soil and shallow groundwater was discovered during 1998 when the UST system was removed.

The extent of the release in soil and groundwater was delineated by investigations and groundwater monitoring from 2008 through 2015. Approximately 25,600 pounds of hydrocarbon fuel constituents were removed by soil vapor extraction and air sparging during two phases of remediation from 2006 and 2014. Post-remedial investigation suggested that approximately 98% of the hydrocarbon mass in soil had been removed. Soil gas sampling and a shallow soil health risk assessment indicated that health risk was less than the level of concern. The remaining effects of the UST release are unlikely to threaten the present use of surface water, groundwater and public health, and should continue to degrade naturally. Water Quality Objectives will be met within a reasonable time. The case was closed on 25 July 2017, in accordance with the Policy.

- **Kimball Toppers, 16385 Avenue 296, Visalia, Tulare County**

The Site is in a primarily rural area with some commercial and light industrial development, east of the City of Visalia. It was occupied by a business which maintained, serviced, and operated agricultural equipment. Two 12,000-gallon USTs, (gasoline and diesel) were removed in July 1999 with oversight by the Tulare County Health & Human Services Agency. Analytical results of soil samples collected from beneath the USTs, indicated an unauthorized release of petroleum hydrocarbon constituents, which was referred to the Central Valley Water Board on 22 June 2016 by Tulare County for regulatory oversight.

Over the period from March 1999 to May 2012, the subsurface soil investigation defined the extent of the release to within an area adjacent to the former UST locations, primarily between 10 and 30 feet bgs. Groundwater monitoring was conducted between October 2001 and December 2014, and since October 2001 groundwater beneath the Site has subsided from 30 feet bgs to more than 50 feet bgs. The groundwater data demonstrates that the groundwater plume which exceeds water quality objectives is within 60 feet of the source area, and concentrations of petroleum product constituents are stable and/or declining. The contaminant plume poses a low threat to human health and safety and the environment, and water quality objectives should be achieved within a reasonable time.

Remediation utilizing soil vapor extraction and air sparging (SVE/AS), was initiated in May 2014, and is estimated to have removed approximately 1,800 pounds of petroleum product constituents from subsurface, which is approximately 85% of the originally estimated mass of the release.

The Site is within an area of agricultural, residential, and commercial use with a developed system of irrigation supply wells and distribution facilities. The future installation of water supply wells and/or development of public water systems will be regulated by Tulare County, whose regulatory oversight is anticipated to prevent placement of wells and/or water distribution facilities in areas of pre-existing contamination.

The case was closed on 25 July 2017 based on the fundamental principles contained in the Policy and in compliance with the Health and Safety Code.

- **City Parking Lot, Nec Court & Acequia Streets, Visalia, Tulare County**

The Site contains a parking lot owned and operated by the City of Visalia, in an area of commercial and light industrial development. Groundwater is estimated to be at least 120 feet bgs, and there are no water supply wells or surface water bodies within 1,000 feet of the Site.

On 4 October 2016, two bunker oil USTs were removed from the Site. Analytical results from a soil sample collected from beneath one of the USTs indicated concentrations of petroleum hydrocarbon constituents in soil at 12 feet below ground surface. The Tulare County Health & Human Services Agency issued an Underground Storage Tank Unauthorized Release (Leak)/Contaminated Site Report on 18 October 2016, and referred the case to the Central Valley Water Board for regulatory oversight.

A soil and soil vapor investigation was conducted in February 2017. Observations and analytical results of soil and vapor samples did not indicate any evidence of petroleum hydrocarbon constituents. It is probable that the petroleum product constituents detected in the soil sample in October 2016 were the result of a small quantity spill during the UST removal action. The case was closed on 15 July 2017 in accordance with criteria contained in the Policy.

b) **REDDING OFFICE**

- **Christina Drude Residence, 8622 Placer Road, Redding, Case No. 450357**

The site is a single family residence on approximately seven acres in west Redding. In January 1995, Shasta County Environmental Health Division (County) received a complaint that an unpermitted underground storage tank (UST) was present at the property. In May 1995, a 550 gallon UST was removed from the property under the supervision of a county inspector. The UST appeared clean and in good condition with no evidence of corrosion or soil staining. A soil sample obtained below the tank was non-detect for total petroleum hydrocarbons as gasoline and benzene, toluene, ethylbenzene and xylenes. No groundwater was encountered during the UST removal. On 15 May 1995, the County sent a letter to the owner stating that no further remediation of the UST excavation was required and that the excavated material could be used to

backfill the excavation. The case remained open because the County never received the UST and rinseate disposal manifests. In January 2016, the County referred lead agency status to the Central Valley Water Board. Staff contacted the tank removal contractor which indicated that its records do not go back to 1995. Based on the soil sample results and the County inspector's observations during UST removal, staff closed the case in July 2017.

- **Former Tops Mini Mart, 2370 Main Street, Red Bluff, Tehama County, Case 520126**

The case is a mini mart and gas station that dispensed gasoline and diesel fuel from three underground storage tanks (USTs). The removed USTs and appurtenances released petroleum hydrocarbons to soil and groundwater. During the 1998 UST removal, approximately 230 cubic yards of visibly contaminated soil (approximately 8,740 pounds of gasoline-range hydrocarbons) were removed from the site. Subsequent response actions included in situ chemical oxidation (ISCO), ozone sparging with soil vapor extraction (OS/SVE), and high vacuum dual-phase extraction (HVDPE). The HVDPE system removed approximately 1,362 pounds of hydrocarbons during 32 days of operation in 2007. The OS/SVE system removed approximately 21,500 pounds of hydrocarbons during 20 months of operation in 2013 and 2014. Staff closed the case under the Low Threat UST Case Closure Policy in July 2017.

- **Halimi Property, 1045 Park Avenue, Chico, Butte County, Case No. 040291**

This property contains numerous commercial structures identified as 1045 Park Avenue, 1049 Park Avenue, 1051 Park Avenue, 1057 Park Avenue, 1087 Park Avenue, and 164 East 11th Street (Site). The Site was previously used as an auto service and repair shop, radiator shop, auto body and paint shop, dry cleaners and possibly as a service station. Investigation into an unauthorized release of petroleum products began in 2009. Initial soil and grab groundwater samples showed that the subsurface was impacted by petroleum hydrocarbons and low-levels of volatile organic compounds (VOCs). In 2011, four monitoring wells were installed, four underground storage tanks (USTs) were removed, and approximately 20 cubic yards of impacted soil was removed from the site. Low concentrations of petroleum contaminants remaining in soil are limited in depth and extend to the southwest end of the property. Between 2010 and 2016, groundwater monitoring demonstrated that the groundwater contamination is horizontally limited to the south end of the property and along Park Avenue. Soil gas sampling results indicate that residual contamination does not pose a significant health risk from vapor intrusion into on-site structures or the off-site Oakdale school. The Site was closed under the Low-Threat Closure Policy in July 2017.

- **One Stop Mini Mart, 2003 East Main Street, Quincy, Plumas County, Case No. 320031**

The site is an active independent gas station and convenience store. In May 1997, five underground storage tanks (USTs) were removed from the site. Soil and groundwater contamination was encountered during the UST removal and approximately 650 cubic yards of contaminated soil (about 218 pounds of petroleum hydrocarbons) were removed from the UST pit. Subsequently, an ozone sparge system removed approximately 202 pounds of petroleum hydrocarbons from groundwater. Approximately 99 percent of the contaminant mass has been removed from the site. Groundwater monitoring indicates that low levels of methyl-tert butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes are continuing to decrease. The Site was closed under the Low-Threat Closure Policy in August 2017.

c) **SACRAMENTO OFFICE**

- **Chevron #9-2797, 115 Highway 49, Jackson, Amador County**

The Site is currently an active Kwik-Serv branded fuel service station with an automotive repair facility and convenience store. In March 1991, Chevron installed three groundwater monitoring wells (MW-1 through MW-3) at the Site and detected petroleum hydrocarbon constituents in groundwater samples. Chevron subsequently removed three 10,000-gallon USTs, one waste oil UST, product dispensers, associated piping, and approximately 1,620 cubic yards of impacted soil. From 2001 to 2003 Chevron conducted two dual phase extraction (DPE) tests which removed approximately 200 pounds of petroleum hydrocarbons from the subsurface. Chevron continued groundwater monitoring through August 2014, and observed decreasing petroleum hydrocarbon concentration trends over time. In June and October 2014, Chevron collected samples from Jackson Creek, located approximately 100 feet east of the Site, to assess the presence of petroleum hydrocarbons. Petroleum hydrocarbons were not detected in these samples. The Site met the

general and site-specific criteria for case closure under the Low Threat Closure Policy and the case was closed on issued 7 August 2017.

- **Silveira Petroleum Inc., 2249 Atwater Boulevard, Atwater, Merced County**
This site is an active Commercial Fueling Network station owned and operated by Silveira Petroleum, Inc. (Silveira). Silveira discovered a petroleum hydrocarbon release near dispenser #13 during a due diligence Phase II investigation associated with a property transaction. Silveira removed an unknown volume of impacted soil by hand during initial investigation activities and installed five monitoring wells to assess potential impact to groundwater. Silveira investigated to a depth of 70 feet below ground surface, but did not detect petroleum hydrocarbons in groundwater beneath the Site. In addition, no domestic wells or surface water bodies are located within 1,000 feet of the Site. Therefore, the remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State as they attenuate. Consequently, they do not justify the cost of any additional active remediation or monitoring. The site was closed on 7/26/2017.
- **Chevron – Former Texaco Bulk Storage Facility, 350 Sacramento Street, Auburn, Placer County**
Dawson Oil released approximately 700 gallons of diesel from their above ground storage tank secondary containment at 346 Sacramento Street during April 2005. Following the initial emergency response to the release, Dawson conducted a groundwater investigation and discovered that petroleum impacted groundwater beneath the site had commingled with releases from the former bulk fuel facilities upgradient and downgradient of their facility. In 2010 Chevron installed five monitoring wells upgradient of the Dawson release at 350 Sacramento Street and sampled these wells in coordination with Dawson. Investigation into the petroleum plume in groundwater revealed that the Chevron plume is about 250 feet in length, stable, and will continue to attenuate with time. The site was closed on 8/31/2017.
- **Rocklin Mini Mart, 4505 Pacific Street, Rocklin, Placer County**
The Site is occupied by the Rocklin Mini Mart retail convenience store and a parking lot. The Site has not operated as a retail service station since 1992. A petroleum hydrocarbon release was discovered in 1987 during advancement of ten investigative soil borings adjacent to the USTs and product lines. The RP operated an air-sparge remediation system at the Site from August 2012 through August 2014, and detected elevated concentrations of dissolved oxygen and heterotrophic bacteria when samples were collected over the first 30 days of air-sparge operation. Based on the most recent (July 2015) groundwater analytical data, RDM estimated that approximately 0.08 pound (lb) of TPH g, 0.31 pound of TPH d, and less than 0.01 pound of benzene remain in Site groundwater. Further remediation of the residual petroleum hydrocarbon mass in groundwater would require significant time and cost for minimal benefit to the environment. Central Valley Water Board staff concurs that the residual petroleum hydrocarbons do not pose a threat to human health and the environment and that the petroleum hydrocarbons will meet WQOs in a reasonable time. Therefore Central Valley Water Board agrees with the RP's recommendation of regulatory closure as a low threat site. This Site closed on 8/2/2017.
- **City of Stockton, 800 East Main Street, Stockton, San Joaquin County**
A previously unknown 250-gallon UST was discovered and removed from beneath the sidewalk adjacent to the north side of the 800 E Main St property in 2015. During tank removal it was discovered that product piping extended approximately 10 feet onto the 800 E Main St property. This product piping was removed in 2016. An investigation and remediation was performed at the 800 East Main Street property as part of a former case, Valley Motors (Case #390546), which was determined by Regional Board staff to meet LTCP Closure criteria, and was closed as of 3 December 2014. As the vicinity of the property has already been determined to meet LTCP Closure criteria, Regional Board staff determined that no additional investigation is needed in association with the City of Stockton case.

Soil removed during UST removal was used to backfill the excavation. As no soil was removed, and no investigation or remediation was performed as part of this case, no mass has been removed in association with the City of Stockton case. The City of Stockton case was closed on 20 July 2017.

- **Chinese Camp Store, 13750 Highway 120, Chinese Camp, Tuolumne County**
The Site is currently a convenience store located along Highway 120 in Chinese Camp. The Site operated as a fuel service station from 1934 through October 2010. In June 1998, a 300-gallon gasoline UST, a 550 gallon gasoline UST, and a 3,000 gallon gasoline UST were removed from the site. In May 2014, a 3,000 gallon gasoline UST was closed in place in accordance with Tuolumne County Environmental Health Department directives. Approximately 11,500 pounds of petroleum hydrocarbons were removed from the site by active remediation treatment systems. While data indicates that petroleum hydrocarbons had impacted soil and groundwater beneath the tanks, groundwater sampling data show that the impact to groundwater is defined, stable and is expected to attenuate below established water quality objectives within a reasonable timeframe. The remaining petroleum constituents are unlikely to pose a threat to human health or impact waters of the State as they attenuate and Central Valley Water Board staff concurs with Kloberdanz's recommendation for regulatory closure in accordance with the Low Threat Closure Policy. This site was closed on 17 July 2017.
- **Sierra Central Credit Union (Former Texaco Station No. 211359), 422 4th Street, Marysville, Yuba County.** The Sierra Central Credit Union currently occupies the Site. In 1979, Texaco/Chevron (Chevron) removed six underground storage tanks (USTs). Investigations of soil and groundwater conditions, conducted from 1992 through 2014, indicated trace concentrations of gasoline hydrocarbons impacted groundwater and soil to a depth of approximately 85 feet, but the highest concentrations were limited to 25 feet bgs. Remediation consisted of a short-term high vacuum extraction event, removing 740 gallons of petroleum hydrocarbon impacted groundwater that resulted in the removal of less than 1 pound of gasoline. Natural attenuation processes continue, and evaluation of concentration trends indicate that gasoline hydrocarbons in groundwater will reach their respective WQOs in a reasonable time. Regional Water Quality Control Board, Central Valley Region issued a NFAR letter on 23 August 2017 for closure of this case.

STAFF RECOGNITION

At the August 11, 2017, Board Meeting, Executive Officer Creedon presented the following awards:

SUSTAINED SUPERIOR ACCOMPLISHMENT AWARD

Program: OIL FIELDS

In November of 2014, Central Valley Water Board staff prepared a work plan identifying how nearly 1100 oil field produced water disposal ponds would be regulated. The work plan included a schedule to bring approximately 430 unregulated facilities under waste discharge requirements (WDRs).

The project had four primary objectives: 1) inventory the approximately 716 active produced water ponds (ponds); 2) inspect approximately 430 unregulated ponds by March of 2015 and regularly inspect ponds under WDRs; 3) develop general WDRs to regulate oil field waste land discharges to bring these facilities into compliance with the California Water Code; and 4) put unregulated facilities in enforcement orders (cleanup and abatement orders) until they are properly covered under WDRs or cease discharge. Tasks 1, 2 and 4 were completed within 12 months. Task 3 involved developing highly contentious General Orders that required delays to address Board member concerns and questions. The work plan was successfully completed in April of 2017 with adoption of three general WDRs by the Central Valley Water Board.

Candidates:

Dale Harvey	Supervising Water Resources Control Engineer
Ronald Holcomb	Senior Engineering Geologist
Hossein Aghazeynali	Water Resources Control Engineer
Douglas Wachtell	Engineering Geologist
Joshua Mahoney	Water Resources Control Engineer

Completion of this project was a team effort that comprised detailed analysis of oil fields to locate ponds that were previously unknown, a concerted effort to field verify information and conduct inspections, development and issuance of 49 cleanup and abatement orders addressing hundreds of unregulated and under regulated ponds, issuing hundreds of 13267 orders to require technical and monitoring data, and developing and working through the process to have three highly contested general WDRs adopted in a public meeting.

Implementation of the work plan was a sustained effort and accomplishment from the initiation of the work plan in November of 2014 until its completion in April of 2017. One of the team members was new to the water board with significant learning curve yet made significant contributions in a short amount of time. To be successful staff had to work extensively with all stakeholders, including the dischargers and their representatives; environmental and environmental justice groups; local, State, and Federal governmental agencies; and other interested groups and individuals.

The consistent dedication and hard work of these staff members resulted in the development and implementation of a highly successful program to bring oil field discharges of waste to land into compliance the California Water Code. On behalf of the Board and Executive Management team, we thank this group of dedicated individuals for their efforts "to preserve and enhance the quality of California's water resources for the benefit of present and future generations."

SUPERIOR ACCOMPLISHMENT AWARDS

Superior Accomplishment Awards were presented to the following staff:

Candidate: Guy Chetelat
Unit: Non-Point Source Unit
Title: Engineering Geologist
Supervisor: Lynn Coster

Guy Chetelat is an Engineering Geologist in the Redding Nonpoint Source Unit and is being recognized for his outstanding work performance. Guy joined the Central Valley Water Board in 2000 and has taken on a wide variety of projects as part of the Nonpoint Source Unit since 2001.

Guy does an excellent job at juggling the oversight of a multitude of tasks and various demands of his time. His key contributions include updating erosion control plans for power line corridors; inspecting and permitting Off Highway Vehicle (OHV) sites; permitting and inspecting over 20 habitat restoration projects; Surface Water Ambient Monitoring Program (SWAMP) water quality monitoring; and the review and management of Clean Water Act Section 319(h) Nonpoint Source Grants and Timber Regulation and Forest Restoration Fund Grants. Guy also participates in a number of public outreach activities and regularly responds to complaints, including site inspections.

During the last two years, Guy has taken the lead in assessing and addressing storm water runoff pollution at over 60 shooting ranges in the Redding and Sacramento subregions. Guy's work has involved identifying problematic ranges and conducting field inspections. In his communication with range owners and representatives, Guy maintains a positive, professional, and helpful demeanor and has been successful in requesting additional assessment, monitoring, planning, and implementation of Best Management Practices (BMPs) to reduce metals in storm water runoff at the ranges. Guy has been instrumental in the monitoring and analysis of CyanoHABs in the last few years. His work involves the continued development of a program to identify and address the causes and impacts of CyanoHABs, a complex and growing problem. Guy's technical knowledge, experience, excellent communication skills, and positive attitude are an asset to the Central Valley Water Board. He has earned the respect of both colleagues and dischargers, and his contributions to the unit and to the Central Valley Water Board are most appreciated.

Candidate: Scott Hatton
Unit: Waste Discharge to Land
Title: Senior Water Resources Engineer
Supervisor: Clay Rodgers

Scott Hatton is a Senior overseeing the Waste Discharge to Land unit in the Central Valley Water Board's Fresno office. His unit is responsible for processing Reports of Waste Discharges, writing new Waste Discharge Requirements (WDRs), and updating existing WDRs when necessary. Scott provides guidance to staff on prioritizing sites, as well as ensuring a balanced work load for each staff person. Scott's unit consistently meets his portion of the Region's performance targets for the Waste Discharge to Land program. In addition, Scott is trained in Lean 6 Sigma and is leading implementation of a streamlined permitting process for the program Regionwide. Recently, after the retirement of the Supervising Engineer overseeing the Discharge to Land, NPDES Permitting, and Title 27 programs in the Fresno office, Scott has been assisting the office by helping to keep work flowing in each of those units. Scott works with the Seniors of the other units to ensure staff are meeting their obligations under their respective program work plans. Scott also works with the Seniors to prioritize incoming work. He works with office administrative staff ensure outgoing correspondence and agenda material are processed in a timely manner.

By assuming this additional workload, Scott is clearly going above the normal requirements of a Senior engineer. Scott has expended considerable personal effort to assist the Regional Board in its mission.

EMPLOYEE OF THE MONTH RECOGNITION

SACRAMENTO OFFICE

July, 2017

Candidate: David Kim
Unit: Sacramento NPDES Permitting
Title: Water Resource Control Engineer
Supervisor: Josh Palmer

Dave is an engineer in the Sacramento NPDES permitting unit and is being recognized for his outstanding contributions to the NPDES program. Dave exhibits a positive attitude and produces quality work products. In addition, to his regular workload Dave has taken on one of the section's most challenging permits. Over the past two years Dave has been working with stakeholders to develop a general permit for POTWs that can meet their effluent limits at the time they discharge to surface waters. This permit was the first of its kind in the state and presented many challenges along the way. Dave handled each challenge with a positive attitude and found viable solutions. The permit will streamline the permitting process for approximately 24 POTWs throughout the region and enable staff to focus on other Board priorities.

Candidate: Dina Calanchini
Unit: Non-15 Waste Discharge to Land
Title: Engineering Geologist
Supervisor: Steve Meeks

Dina Calanchini is an Engineering Geologist in Rancho Cordova's Non-15 Waste Discharge to Land Permitting Unit. Dina is responsible for writing Waste Discharge Requirements in addition to preparing a plethora Notices of Applicability to General Orders for a variety of discharges to land. Dina has also taken on reviewing and preparing resolutions for numerous Local Agency Management Plans under the State Water Board's Onsite Wastewater Treatment Systems program.

Dina is an extremely dedicated and motivated team member who is always eager for a challenge. Whether preparing a complex permit or taking on several assignments simultaneously, Dina is always focused on providing a high quality work product and meeting her deadlines! For example, while preparing new WDRs for a large winery, Dina also took on amending two WDRs and was able to orchestrate having all three uncontested orders ready for adoption at the same Board meeting. Recently, when the development of new WDRs hit a snag and was delayed, Dina quickly ramped up and prepared WDRs for a case from the Fresno office without impacting her other workload priorities. In the nearly two years she has been here, Dina has rightly earned a reputation in the Unit of being a solid go-to person for getting any job done quickly and efficiently. Dina's contributions to the Waste Discharge to Land Permitting Unit sets a great example for her contagious enthusiasm. Her efforts are greatly appreciated.

REDDING OFFICE

July, 2017

Candidate: Michael Parker
Unit: Cannabis Cultivation Waste Discharge Regulatory Program
Title: Engineering Geologist
Supervisor: Griffin Perea

Michael Parker is an Engineering Geologist working in the Cannabis Regulatory and Enforcement Unit in the Redding office of the Central Valley Water Board. Michael has been with the Central Valley Water Board since December 2016.

Although Michael has only been with the Central Valley Water Board a short time, he has made considerable contributions to the Cannabis Program and taken on a tremendous work load. In just a short time Michael has

become knowledgeable in permitting, compliance, and enforcement components of the Cannabis Program. He has overseen the review and approval of numerous General Order enrollments, conducted compliance inspections, enforcement inspections, and has taken a lead role in a multi-year water quality sampling study. Shortly after starting with the Central Valley Water, Michael was one of only two staff supporting the program. During that timeframe, after only a few months with the Central Valley Water Board, Michael assumed responsibility for the permitting workload including the review of applications, technical submittals, and assisting dischargers through the permitting process. In addition to Michaels permitting workload he has assisted with numerous outreach and education events and training new staff in the program. Recently Michael has taken on his first formal enforcement case.

Michael has demonstrated an ability to learn quickly and follow through on complex tasks, often juggling multiple work items and numerous timelines. Michael has a tremendous work ethic and his positive attitude has benefited the Cannabis Program and the Redding office as a whole. The Central Valley Water Board is fortunate to have Michael as part of its staff, and his contributions are greatly appreciated.

FRESNO OFFICE
July, 2017

Candidate: Denise Soria
Unit: Non-15 Waste Discharge Requirement Unit
Title: Water Resource Control Engineer
Supervisor: Scott J. Hatton

Denise has been with the Board's Fresno office for nine years and works in the Non-15 Waste Discharge Requirement (WDR) Unit. Denise is tasked with writing WDRs for a wide range of dischargers. Her tasks include reviewing reports of waste discharge and monitoring data, conducting field visits to familiarize herself with a facility, and communicating with each discharger. Her primary goal is to complete the tasks associated with processing individual WDRs, but she also spends much of her time enrolling dischargers under existing general WDRs and reviewing technical reports that are required to be submitted.

Denise is most deserving of the Employee Recognition Award for the month of July 2017 since she closed out the fiscal year with two WDRs on the uncontested items agenda for the June Board meeting, completed the first part of the permit updating process for another discharger, and spent part of her lunchtime assisting staff in the Irrigated Lands Regulatory Program Unit with translation issues with a discharger. During that time is was reported that Denise was professional, calming, and was everything that was needed in a fraught meeting.

SACRAMENTO OFFICE
August, 2017

Candidate: Mohammad Farhad
Unit: NPDES Compliance and Enforcement
Title: Water Resource Control Engineer
Supervisor: Kari Holmes

Mohammad Farhad is an engineer in the NPDES Compliance and Enforcement Unit in the Sacramento office and is being recognized for his outstanding contributions to the NPDES Compliance and Enforcement program. Over the past 5 plus years, he has been an extremely valuable member of the Unit. During this time, he has he been responsible for evaluating compliance and issuing enforcement orders for multiple Dischargers that discharge treated wastewater to surface waters in the Sacramento-San Joaquin Delta. Mohammad always demonstrates a positive attitude and is happy to answer questions asked by both Dischargers he regulates, as well as colleagues in the office. His technical knowledge within the program has been a valuable resource to his manager and new staff joining the unit. He has acted as the lead staff person in the unit and has assisted in training multiple engineers and scientific aides.

In addition to his NPDES workload, Mohammad recently successfully assisted in settling a 2.3 million dollar enforcement case between the Regional Board and Deuel Vocational Institution. His positive attitude and

technical knowledge coupled with his ability to convey complex issues to his Dischargers has not only earned him respect from those Dischargers but has also improved how those Dischargers view the Regional Board's Enforcement Team.

REDDING
August, 2017

Candidate: Heidi T. Bauer
Unit: WDR/Non-15 Unit
Title: Sanitary Engineering Associate
Supervisor: George Low

Heidi is being nominated for her contributions to the Redding office and the WDR Unit. Heidi has been with the Central Valley Water Board for approximately eighteen years. In that time Heidi has worked in many of the program areas in the Redding office.

Currently, Heidi manages 39 facilities covered under individual and general order WDRs and Waivers. She also serves as the county representative for Glenn and Lassen Counties. As such she is responsible for reviewing and responding to CEQA documents and complaints associated with activities within those counties.

In addition to Heidi's WDR unit commitments, she is also the contracts manager for the Redding office's lab and flight contracts, and is also the database coordinator for the Redding office and oversees consistency and quality control entries for the office's CIWQS, SMARTS, and GEOTRACKER databases. Most recently, Heidi has been working with Central Valley Water Board staff to develop CIWQS data entry procedures that will aid in providing better quality control of data that is being entered into this database. Additionally Heidi has also worked to develop region wide laboratory contracts with analytical suites that can be used by all three of our region's offices.

Heidi does an excellent job balancing her work load and various demands for her time while making key contributions to the WDR Unit, including General Order enrollments, conducting compliance inspections, and responding to complaints.

Heidi is a well-organized and detail oriented individual, who is able to prioritize all of her competing work commitments, and accomplishes it all as a 7/10th timebase part-time employee. Heidi's knowledge, experience, excellent communication skills, and positive attitude are an asset to the Central Valley Water Board. Her work ethic, attitude, and dedication are appreciated by all.

FRESNO OFFICE
August, 2017

Candidate: Zachary Jarvie
Unit: Oil Fields
Title: Engineering Geologist
Supervisor: Michael Pfister

Zachary has worked in the Regional Board Fresno office as an Engineering Geologist for about two years. Previously Zachary worked in Nevada as a field geologist in the mining industry. Zachary is currently in one of the Oil Fields Units and is primarily tasked with overseeing activities associated with current and historical oil field waste water discharges into ponds. Zachary has recently reviewed Operator responses to approximately ten Cleanup and Abatement Orders. Zachary has also recently reviewed numerous Notice of Intents submitted by Operators who desire coverage under one of the three recently approved General Orders for the discharge of oil field waste waters into ponds. Some of the Notice of Intents reviewed are associated with discharges in the Lost Hills, North Belridge, South Belridge, and Midway-Sunset Oil Fields.

Zachary initiated and developed a checklist form that can be used by other staff for the review of Notice of Intents. Zachary consistently initiates and completes tasks. On an ongoing basis he applies his knowledge of geology and

hydrogeology during his reviews. His exceptional positive attitude, demonstrated desire to learn, courteous and professional demeanor, and field experience, serve as a role model.

SACRAMENTO OFFICE
September, 2017

Candidate: Dana Kulesza
Unit: Irrigated Lands Regulatory Program
Title: Engineering Geologist
Supervisor: Susan Fregien

Dana is being recognized for her outstanding work on multiple projects in the Irrigated Lands Regulatory Program (ILRP). Over the past year, Dana reviewed several complex surface and groundwater quality management plans submitted by agricultural coalition groups. She prepared comprehensive review memorandums that addressed technical and compliance deficiencies, and worked effectively with coalition representatives to make the necessary changes. These reviews are very time intensive and complex because they are new elements in the ILRP. Dana's excellent analytical skills, extensive program knowledge, and organizational abilities have kept these plans moving steadily forward.

Dana also served as the lead in developing Notices of Applicability for enrollees under the ILRP's Individual Order. These notices required the inclusion of understandable and detailed, site-specific monitoring and reporting requirements. Dana was also instrumental in the review, planning and coordination of a project to address nitrate discharges and regulatory compliance for Norman's Nursery. This involved compiling 20 years of history and data, and organizing several phone meetings and a site visit with representatives.

Dana's hard work and commitment to successful implementation of the ILRP are very much appreciated.

Candidates: Michael Sekigahama
Unit: SWAMP
Title: Scientific Aid
Supervisor: Anne Littlejohn

Michael Sekigahama is a highly valued member of the SWAMP program and he is being recognized for consistently going above and beyond his normal daily tasks.

Michael is a friendly, hard-working and positive team member. In addition to supporting weekly field runs, Michael always looks for ways to streamline processes and help the SWAMP program run more efficiently. For example, Michael designed and programmed custom data entry tools that provide a huge time savings and a high level of quality assurance. The old process of entering bacteria data into CEDEN spreadsheets used to take several hours per run. With Michael's new tool, it now takes twenty minutes! Michael is also very proactive about working with equipment vendors and suppliers to ensure that field equipment is working properly and appropriate protocols are in place.

Michael takes on each task with enthusiasm and a great attention to detail. He truly thinks outside the box to provide valuable input and creative solutions to problems that arise.

REDDING
September, 2017

Candidate: Jason Z. Schroeder
Unit: Groundwater Unit
Title: Engineering Geologist
Supervisor: Kate Burger

Jason is a member of the Redding office's Groundwater Unit where he manages 12 Underground Storage Tank (UST) Program cases and 17 Site Cleanup Program cases.

During September Jason issued four 13267 information request orders for a Site Cleanup Program case in the Oroville area involving tetrachloroethylene impacts to a municipal water supply well. These orders (approximately ten total) are being sent to businesses within the estimated capture zone of the impacted well that are known or suspected of having used chlorinated solvents.

Also during September, Jason issued a draft Cleanup and Abatement Order for a UST case in the Alturas area that has been active since the early 1990s. Forward progress on this recalcitrant case had stalled for several years as a result of multiple changes in ownership and the financial constraints of the current owner. The methyl tert butyl ether (MTBE) plume emanating from this gas station poses a significant threat to a downgradient municipal water supply well.

At the beginning of the month, Jason held a meeting with the owner of a local metal recycling facility that has been working to meet requirements identified in a 2012 Cleanup and Abatement Order. Although significant improvements have been made to the facility's storm water management practices, funding limitations had hampered headway on the site investigation and cleanup. The outcome of this meeting is that Central Valley Water Board staff will work with the Discharger to implement the site investigation and cleanup in a phased approach that considers the Discharger's limited resources.

Since joining the Central Valley Water Board eight months ago, Jason has impressed his co-workers with his technical knowledge and is well regarded by his Redding office colleagues. Jason brings fresh energy to the Groundwater Unit with his passionate approach to groundwater restoration.

FRESNO OFFICE
September, 2017

Candidate: Ken. D. Jones
Unit: Underground Storage Tank
Title: Engineering Geologist
Supervisor: Shelton R. Gray

Ken has been with the Board in the Underground Storage Tank unit as a full time staff geologist for many years after leaving consulting work. He consistently demonstrates a willingness and ability to increase his knowledge of the technical and administrative aspects associated with the Underground Storage Tank program. He is always professional in dealing with consultants and responsible parties for his projects. He has a good attitude and focus on the 50+ projects he is assigned and has always been a productive and professional person.

Ken is typically the most prolific producer in the unit. He has completed 6 case closures – which is double his performance quota in the Underground Storage Tank performance work plan for the first quarter of the fiscal year. During the month of August he completed 21 outputs including work plan reviews, groundwater monitoring and remediation report reviews, closure plan reviews, overdue response letters, and well destruction report reviews. He also responds to public records act requests. He continues to be a “go to” staff person, always willing to take on any extra assignment, which he completes in a timely manner.

Performance Targets

Performance measurement and reporting is an important component of a complete system of performance management needed to demonstrate how well programs or strategies are working and why. 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 link below and was used to develop the FY 2017-2018 performance targets

http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf.

Below is the Region 5 Performance Measurement Summary for the 2017-18 fiscal year. This report was produced with data through 21% of the current fiscal year.

Region 5 Performance Measurement Summary from 1 July 2017 through 15 September 2017						
Programs	Original Target	* Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	** Total # of Inspections Performed	Comments
NPDES Wastewater						
Major Individual Permits Issued, Revised, and Renewed	9	2	22%	n/a	n/a	
Major Individual Facilities Inspected	27	6	22%	n/a	8	
Minor Individual Permits Issued, Revised, and Renewed	8	4	50%	n/a	n/a	
Minor Individual Facilities Inspected	6	2	33%	n/a	2	
Minor General Enrollees Facilities Inspected	0	0	N/A	n/a	0	
Waste Discharge to Land – Wastewater						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	25	8	32%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	170	38	24%	n/a	40	
Land Disposal						
Landfills Permits Issued, Revised, and Renewed	11	1	9%	n/a	n/a	
Landfill Inspections	93	32	37%	n/a	34	
All Other Permits Issued, Revised, and Renewed	2	0	0%	n/a	n/a	
All Other Inspections	26	6	23%	n/a	6	
NPDES Storm Water						
Stormwater Construction Inspections	385	50	14%	n/a	52	
Stormwater Industrial Inspections	195	16	8%	n/a	16	
Stormwater Municipal Inspections	0	0	N/A	n/a	0	
Other Programs						
Forest Activities Inspections	166	16	10%	n/a	16	
Confined Animal Facility Inspections	325	14	4%	n/a	14	
Clean Up						
New DoD Sites Into Active Remediation	9	0	0%	n/a	n/a	
New SCP Sites Into Active Remediation	80	3	4%	n/a	n/a	
Cleanup Program Sites Closed	64	4	6%	n/a	n/a	
New UST Sites Into Active Remediation	29	6	21%	n/a	n/a	
Underground Storage Tank Sites Closed	80	28	35%	n/a	n/a	
* Actuals: Number of facilities inspected or permits issued.						
** Total #: Number of inspections completed including all reinspections.						

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 Executive Officer's Report (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 orders issued; and, 2) a summary of all enforcement actions issued.

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

Enforcement Table 1 – Region 5 Enforcement Orders (14 July 2017 through 15 September 2017)

Action Date	Agency	County	Notes
7/20/2017	City of Live Oak	Sutter	Administrative Civil Liability (ACL) Order R5-2017-0542 settled in the amount of \$12,000 to address mandatory minimum penalty (MMP) violations. The liability amount was settled through the completion of a Compliance Project.
7/25/2017	Hanover Properties, LCC	Butte	ACL Complaint R5-2017-0544 in the amount of \$205,128 for a violation of Cleanup and Abatement Order R5-2016-0741 that required specific actions and documents be taken by the Discharger associated with a marijuana cultivation operation.
7/25/2017	Lawrence Gasper	Shasta	ACL Complaint R5-2017-0543 in the amount of \$143,640 for a violation of Cleanup and Abatement Order R5-2016-0711 that required specific actions and documents be taken by the Discharger associated with a marijuana cultivation operation.
7/28/2017	City of Modesto	Stanislaus	ACL Order R5-2017-0520 issued for \$185,186 that settles the liability associated with violations of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Order 2006-0003-DWQ (SSS WDRs) for sanitary sewer overflows (SSOs) which occurred on 24 December 2015 and 28 October 2016.
7/31/2017	City of Grass Valley	Nevada	ACL Order R5-2017-0519 in the amount of \$119,064 settling the liability associated with violations of the Waste Discharge Requirements (WDRs) Order R5-2016-0012 for wastewater spills that occurred on 10 December 2016 and 5 February 2017. As a result of this settlement, \$59,532 shall be paid to the State Water Board Cleanup and Abatement Account, and \$59,532 shall be permanently suspended upon completion of a Supplemental Environmental Project (SEP).

Enforcement Table 1 (cont.)

Action Date	Agency	County	Notes
8/3/2017	City of Angels	Calaveras	California Water Code (CWC) Section 13267 Investigative Order (13267 Order) issued in response to a discharge of 649,000 gallons of Title 22 tertiary treated water to Angels Creek.
8/7/2017	Amador Regional Sanitation Authority	Amador	13267 Order issued in response to incomplete and materially deficient reports in response to a Notice of Violation issued by the Central Valley Regional Board on 14 April 2017.
8/7/2017	City of Lincoln	Placer	ACL Order R5-2017-0538 in the amount of \$360,000 settling the liability associated with violations of improper operation of the Facility.
8/11/2017	California Department of Parks & Recreation, Sacramento	Nevada	Time Schedule Order (TSO) R5-2017-0087 contains a 5-year compliance schedule for copper, mercury, and nickel effluent limitations for the Facility.
8/11/2017	City of Biggs	Butte	Time Schedule Order (TSO) R5-2017-0092 allows the discharger additional time to come into compliance with the final effluent limits for ammonia and total coliform and achieve compliance with filtration, turbidity, and disinfection requirements.
8/14/2017	Rockwell Automation	Tulare	Stipulated ACL Order settled in the amount of \$9,000. The Discharger's annual self-monitoring reports for 2012 under Order R5-2011-0013, indicate that the treated groundwater discharged from the Facility exceeded the effluent limitations for 1,1-Dichloroethylene on three (3) occasions, resulting in three MMPs violations.
8/17/2017	Linda County Water District	Yuba	ACL Complaint R5-2017-0537 was settled by payment in the amount of \$18,000 for MMP effluent limitation violations that occurred from January 2016 through April 2017.
8/23/2017	California Department of Corrections and Rehabilitation	San Joaquin	Stipulated ACL Order settled in the amount of \$2,300,000 for deficient reporting, effluent exceedances, and WDRs compliance violations. Part of the settlement amount will be directed to the Central Valley Regional Board's Disadvantaged Community (DAC) SEP initiative.
8/31/2017	General Electric Co	Merced	ACL Order R5-2017-0536 in the amount of \$3,000 that settles one effluent limit MMP violation for trichloroethene.

Enforcement Table 1 (cont.)

Action Date	Agency	County	Notes
8/31/2017	CMO, Inc.	Kern	ACL Order R5-2017-0534 settled in the amount of \$468,930 for improperly discharging almost 20 million gallons of production water from an oil field operation. As part of the stipulated agreement, \$237,930 would go to the Regional Board's DAC SEP initiative.
9/11/2017	Constellation Wines US Operations, Inc. (dba Woodbridge Winery)	San Joaquin	ACL Complaint R5-2017-0552 issued in the amount of \$36,000 for Mandatory Minimum Penalty (MMP) effluent limitation violations that occurred between 29 March 2011 and 30 June 2017. The Complaint alleges six biochemical oxygen demand and six total suspended solids effluent violations.
9/11/2017	City of Stockton	San Joaquin	ACL Complaint R5-2017-0545 issued in the amount of \$3,000 for MMP effluent limitation violations that occurred between 1 January 2016 and 30 June 2017. The Complaint alleges two total ammonia violations.
9/11/2017	Original Sixteen to One Mine, Inc.	Sierra	ACL Complaint R5-2017-0549 in the amount of \$33,000 for MMP effluent limitation violations that occurred between 1 October 2015 and 31 December 2016. The Complaint alleges one arsenic, two total suspended solids, one cadmium, one iron, four antimony, one nickel, and two copper violations.
9/11/2017	City of Nevada City	Nevada	ACL Complaint R5-2017-0546 issued in the amount of \$39,000 for MMP effluent limitation violations that occurred between 1 January 2016 and 30 June 2017. The Complaint alleges twelve dichlorobromomethane violations and two total coliform violations.
9/11/2017	California Department of Corrections and Rehabilitation	San Joaquin	ACL Complaint R5-2017-0550 in the amount of \$15,000 for effluent limitation violations that occurred between 1 February 2017 and 30 June 2017. The Complaint alleges five total coliform violations.
9/11/2017	City of Modesto	Stanislaus	ACL Complaint R5-2017-0551 charges the Discharger with an administrative civil liability in the amount of \$165,000 for effluent limitation violations that occurred between 1 April 2013 through 30 June 2017. The Complaint alleges fifty-nine total coliform violations.
9/11/2017	City of Davis	Yolo	ACL Complaint R5-2017-0547 issued in the amount of \$21,000 for effluent limitation violations that occurred between 1 July 2016 and 30 June 2017. The Complaint alleges nine total chlorine residual violations.
9/11/2017	Nevada CSD No 1	Nevada	ACL Complaint R5-2017-0548 issued in the amount of \$18,000 for effluent limitation violations that occurred between 1 October 2013 and 30 June 2017. The Complaint alleges five nitrate nitrogen, total (as N) violations, and four total coliform violations.

2) **Enforcement Update** – Enforcement Table 2, included below, summarizes the enforcement actions issued in all the Regions since the last EO Report. From a statewide perspective, Region 5 was responsible for 29% of all the enforcement actions tracked in CIWQS during this period including 64% of all NOV's and 47% of all ACL's.

Enforcement Table 2 – Statewide Enforcement Actions (14 July 2017 through 15 September 2017)

Region	VER	SEL	NOV	NNC	13267	NTC	TSO	EPL	ACL	Total
1	0	0	1	0	0	0	0	0	1	2
2	4	32	16	0	0	0	0	1	7	60
3	3	0	8	23	0	0	0	0	1	35
4	3	0	23	101	0	8	1	15	9	160
5F	0	0	27	1	0	0	0	0	3	31
5R	0	0	3	0	0	0	1	0	2	6
5S	6	1	55	141	2	0	1	1	13	220
RB5 Total	6	1	85	142	2	0	2	1	18	257
6	7	6	0	149	0	0	0	0	0	162
7	0	6	0	15	1	0	0	0	0	22
8	6	1	0	155	0	0	0	0	0	162
9	0	14	0	0	0	0	0	0	2	16
Total	29	60	133	585	3	8	3	17	38	876
Enforcement Actions:										
VER = Verbal Communication					TSO = Time Schedule Order					
SEL = Staff Enforcement Letter					CDO = Cease and Desist Order					
NOV = Notice of Violation					EPL = Expedited Payment Letter					
13267 = Water Code Section 13267 Investigative Order					ACL = Administrative Civil Liability					
NNC = Notice of Non-Compliance (Stormwater)										

SANITARY SEWER OVERFLOWS, COMPLAINTS AND SPILLS

- **Wawona Wastewater Treatment Facility, Mariposa County**

On 7 September 2017, Wawona WWTF staff reported a spill of 25,000 gallons of tertiary-treated and disinfected wastewater to the south fork of the Merced River in Yosemite National Park. A broken valve in the golf course irrigation system allowed treated wastewater from the golf course irrigation system to flow across the golf course for approximately half an hour, directly into the river. A spill system alarm which triggers on a release rate of 1,000 gallons per minute was not triggered. The spill dominated the flow of the river, which was at low summer discharge, for the period of the release. Staff notified the California Department of Fish and Wildlife of the spill to the river and the discharger was directed to sample the river in accordance with Mariposa County requirements. The discharger is preparing a detailed spill report.

- **Sanitary Sewer Overflows (SSOs) in Excess of 50,000 gallons**

There were no SSO events in excess of 50,000-gallons in the months of June and July 2017. There was one 100,000 gallon spill at the Strathmore Wastewater Treatment Facility (Strathmore WWTF) on 5 June 2017 that was reported as an SSO, but was later determined to not be an SSO. The spill occurred downstream of the headworks and the wastewater had been treated prior to release. The facility manager stated that the spill occurred due to a blockage at the diversion box for the evaporation/percolation ponds. Strathmore WWTF personnel disinfected the spilled area using granular chlorine, after vacuum trucks had transported treated wastewater back to the ponds.

For this reporting period, there were **152** total SSO spills: **10** Category 1, **3** Category 2, and **139** Category 3 spills. Relevant data from all of the spills occurring during this reporting period is included as **Attachment A**.

- **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 webpage at: http://www.waterboards.ca.gov/water_issues/programs/sso/index.shtml. Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (*General Statewide Waste Discharge Requirements for Sewage Collection Agencies*).

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS

Complaints

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. Since implementing a new tracking system in 2016, Central Valley Water Board staff have logged **321** complaints from phone calls, emails, and from the CalEPA Complaint database (<https://calepacomplaints.secure.force.com/complaints/>). And, so far, **279 (87%)** complaints have been investigated and closed, or referred to another environmental enforcement agency. Investigations for the remaining **42** complaints remain ongoing.

SITE CLEANUPS

- **Crop Production Services, 1905 N. Broadway, Stockton, San Joaquin County**

This site has been an agricultural chemical formulation and distribution facility under various owners since about 1960. One primary source of groundwater pollutants of 1, 2,3-trichloropropane, 1,2-dichloropropane and ammonium is a former on-site evaporation pond. Crop Production Services, the current owner, is conducting a pilot study that will facilitate microbial degradation of these pollutants. The pilot study consists of multiple injections of 3-D Microemulsion and Chemical Reducing Solution in September 2017, and is being conducted pursuant to General Order for InSitu Remediation, R5-2015-0012-032. (AST)

- **North Stockton PCE Plume, San Joaquin County**

In August and September of 2017 staff tested private domestic wells near the corner of Hammer Lane and Thornton Road in Stockton as part of an investigation of a nearby former gas station. Tetrachloroethene (PCE) was detected in the water collected from several private domestic wells at concentrations exceeding the Maximum Contaminant Level (MCL). The source of PCE in groundwater has not yet been identified. However, a 13267 Order has been issued to a local property owner that has an operating dry cleaning business on the property.

To date, 39 domestic wells have been sampled, and PCE concentrations equal to, or exceeding, the MCL have been detected in samples from 13 of them. Water Board staff expects that approximately 60 domestic wells in total will be sampled as part of the first phase of this effort.

Since the discovery of PCE in the area Water Board staff have been knocking on doors, talking to residents about the PCE contamination and the need for well sampling. We also held an "open house" style, public meeting for the residents that focused on the area of PCE impact, toxicology, hydrogeology, well sampling, water treatment and grant funding that may be available. Approximately 40 community members attended the public meeting and teams from local newspaper and television stations ran the story.

DELTA ACTIVITIES

1. Delta Mercury Exposure Reduction Program

The Delta Mercury Exposure Reduction Program (MERP) is a collaborative effort of the Central Valley Water Board, California Department of Public Health (CDPH), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA). It is supported by funds from the Cleanup and Abatement Account and Delta dischargers subject to the Delta Mercury Control Program. The goal of the Delta MERP is to protect public health by reducing exposure to methylmercury in fish caught in the Delta.

The MERP Steering Committee meets bi-monthly to coordinate the implementation of various components in the 2017 Activity Plan. Posting of the new advisory signs developed by MERP for the Delta is currently underway. Over 25 signs are now posted at various locations in the Delta with many additional locations planned. Staff is currently coordinating with stakeholders who will be responsible for maintaining some of the sign-posting locations.

On 8 October 2017, the California Indian Environmental Alliance will be giving an “Eat Fish Safely” MERP funded training for Women Infant and Children (WIC) program staff in Contra Costa County. This training will be highly effective in reaching many in the community most at risk. The class will be following the “train-the-trainer” model that will teach key staff in each of the four WIC clinics located in several counties who will then return to their respective clinic and train additional WIC staff.

2. Delta Regional Monitoring Program (RMP)

On 28 July 2017, the Steering Committee met to discuss the Pesticides and Toxicity Data Report for Year 1, review the scope of the Current Use Pesticides Year 1-2 Interpretive Report, and consider the development of a Contaminants of Emerging Concern monitoring component within the Delta RMP.

The Nutrients Subcommittee met on 30 August 2017 to discuss two draft Delta RMP reports:

- 1) Nutrients Synthesis Task 1 Deliverable- *Assessment of Nutrient Status and Trends in the Delta in 2001–2016: Effects of drought on ambient concentrations and trends.*
- 2) Nutrients Synthesis Task 2 Deliverable- *Delta RMP FY 2016–17 Nutrients Synthesis: Modeling to Assist Identification of Temporal and Spatial Data Gaps for Nutrient Monitoring.*

The group also provided input on the high-frequency mapping boat cruise tracks and sampling periods for a nutrients study that will be conducted by USGS scheduled to begin this fall. In addition there was discussion about potential RMP collaboration with future Delta Nutrient Research Plan projects.

The Technical Advisory Committee met on 21 September 2017 to discuss revisions to the draft Year 1 Pesticides Data Report: *Annual Monitoring Report FY 2015–16 – Pesticides*. Additional subcommittee meetings were held in August and September to develop a decision matrix and prioritization criteria for evaluating this year’s current use pesticides and toxicity monitoring proposals. The Steering Committee has approved monitoring designs for nutrients and mercury; however, monitoring for pesticides and toxicity in FY2017/18 will be decided at a subsequent meeting based on the decision matrix.

3. Delta Nutrient Research Plan

The purpose of the Nutrient Research Plan is to identify research and modeling needed to determine whether and what type of water quality objectives for nutrients may be needed to protect beneficial uses in the Delta. Development of white papers to support the Nutrient Research Plan is complete. The final white paper, the drinking water white paper, was accepted by general consensus of the Stakeholder and Technical Advisory Group (STAG) in July 2017.

Staff provided an information item to the Central Valley Water Board in August regarding knowledge gained from topic-specific white papers and progress in developing the Nutrient Research Plan. Staff’s presentation to the Water Board and other information about the project are available on the website:

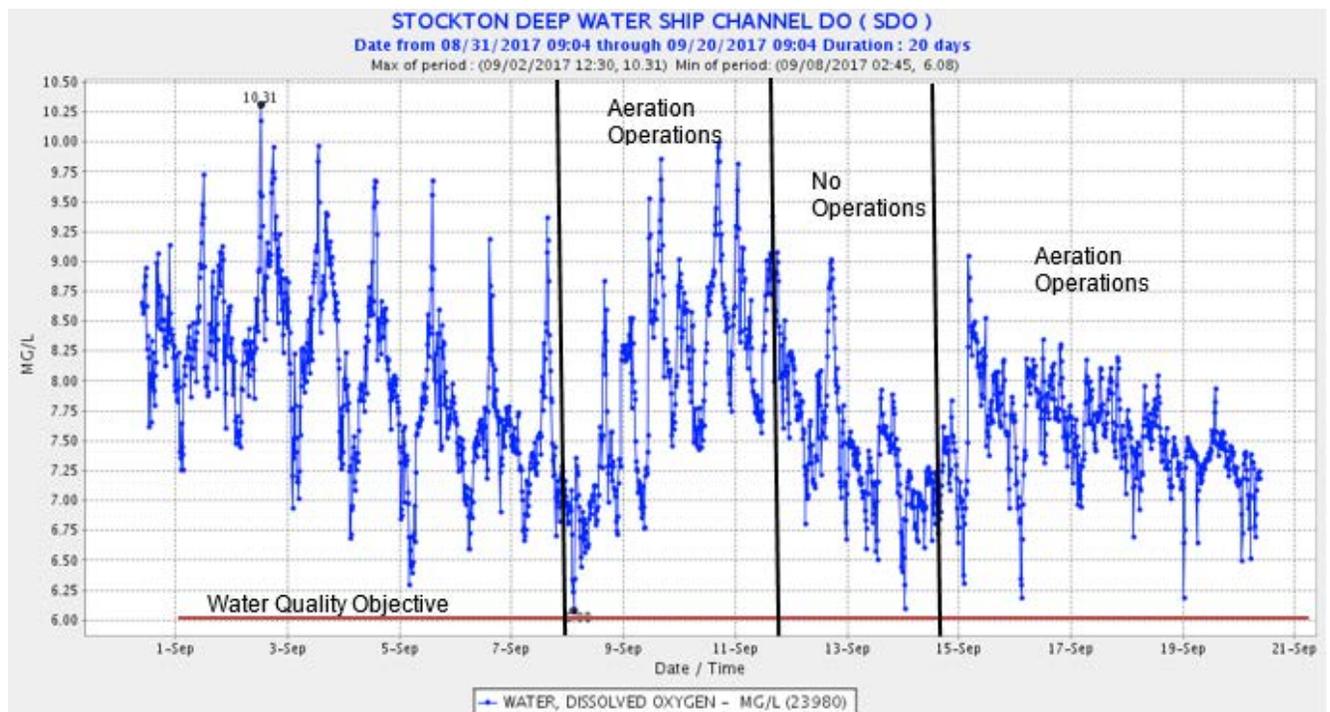
http://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/index.shtml

Upcoming activities:

- Development of a contract agreement to expand the capabilities of nutrient modeling for San Francisco and Suisun Bays into the Delta. The modeling is a joint project with the San Francisco Bay Water Board funded by the State and Regional Water Boards.
- Staff is writing the Nutrient Research Plan and identifying possible steps for implementation.
- The next STAG meeting will occur in October.

4. San Joaquin River Dissolved Oxygen TMDL Implementation – Aeration Facility

Dissolved oxygen and other water quality parameters in the Stockton Deep Water Ship Channel (dredged portion of the San Joaquin River) are measured at the Department of Water Resources Rough and Ready Island water quality monitoring station. When dissolved oxygen concentrations fall below the dissolved oxygen water quality objective, the Port of Stockton operates an aeration device located on Rough & Ready Island that is used to increase dissolved oxygen concentrations in the river. Until September, dissolved oxygen concentrations were above the water quality objective of 5.0 mg/L and aeration operations were not needed. In September, the dissolved oxygen water quality objective increased from 5.0 mg/L to 6.0 mg/L due to the fall-run Chinook salmon that begin migrating through the system to their upstream freshwater natal spawning grounds. In early September, dissolved oxygen concentrations began trending downward toward 6.0 mg/L. On September 8, the Port of Stockton turned on both pumps of the aerator. The aerator was operated through the weekend and shut down on the following Monday. Dissolved oxygen concentrations were then observed over the next few days to see if concentrations would remain stable. However, concentrations began to decline again, so the aerator was restarted later in the week and one pump is now currently operating (as of September 18).



TMDL BASIN PLANNING

1. **2018 Integrated Report**

The Integrated Report includes surface water quality data assessments and Clean Water Act Section 303(d) listing recommendations (identification of impaired water bodies). The “Notice of Public Solicitation of Water Quality Data and Information for the 2018 California Integrated Report – Clean Water Act Sections 305(b) and 303(d)” was released on 3 November 2016. The solicitation period closed 3 May 2017. Staff will release their initial evaluation of the submitted data in early 2018. Any data submitted after May 3rd will be considered in the 2020 cycle assessments. The current 2014 Integrated Report for the Central Valley Region is available at the following website:

http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/impaired_waters_list/index.shtml

SALINITY AND CV SALTS

1. **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 staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March hearing. Final copies of the SNMP and related policy documents can be found at:

<http://www.cvsalinity.org/index.php/docs/central-valley-snmp/final-snmp.html>

Staff is continuing to work internally with Program Managers and externally with CV-SALTS stakeholders to draft Basin Plan amendment language and identify any additional environmental, economic and/or anti-degradation documentation needed for the recommended policies, strategies and guidance. Initial drafts of the proposed amendment are anticipated to be available for release during the fall with a public workshop tentatively scheduled for January 2018.

Lower San Joaquin River Salt and Boron Water Quality Objectives (WQOs)

On 9 June 2017, the Board adopted the proposed Basin Plan Amendments (BPA) and supporting draft Staff Report to establish salinity WQOs on the Lower San Joaquin River. A State Board hearing to approve the BPA is tentatively scheduled for 9 January 2018.

Information on the proposed Amendment and supporting projects can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/upstream_salt_boron/index.shtml

A brief summary of all CV-SALTS technical projects can be found under the CV-SALTS website at:

<http://www.cvsalinity.org/index.php/committees/technical-advisory/technical-projects-index.html>

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 approve the BPA is tentatively scheduled for 9 January 2018.

More information on the project can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml

Dedesignation of Municipal and Domestic Supply (MUN) and Agricultural Supply (AGR) Beneficial Uses in a Discrete Portion of the Tulare Lake Bed Groundwater Basin

On 6 September 2017, the State Water Board approved the Basin Plan Amendment adopted by the Central Valley Water Board to dedesignate MUN and AGR in a vertically and horizontally defined portion of the Tulare Lake Bed groundwater basin. The amendment will become effective after approval by the Office of Administrative Law.

More information on the project can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/tulare_lakebed_mun_evaluation/index.shtml

2. **CV-SALTS Meeting Participation**

On 17 July, Jeanne Chilcott, Pamela Creedon and Patrick Pulupa participated in the CV-SALTS Executive Committee meeting.

On 15 August and 12 September, Glenn Meeks participated in the CV-SALTS Public Education and Outreach Committee meetings to discuss outreach materials, including the CV-SALTS Final Salt and Nitrate Management Plan summary brochure with Executive Officer edits and industry specific inserts.

On 23 August, Jeanne Chilcott provided a presentation on the CV-SALTS stakeholder process and key components of the recommended Central Valley Salt and Nitrate Management Plan at the California Association of Sanitation Agencies (CASA) annual conference.

On 31 August, Anne Littlejohn, Patrick Pulupa and Jeanne Chilcott participated in a CV-SALTS small working group to draft Basin Plan amendment language for the proposed salinity management strategy.

3. **United States Bureau of Reclamation (USBR)—Management Agency Agreement (MAA)**

An MAA meeting with Central Valley Water Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District is scheduled for 25 September 2017. USBR's Final FY 2018 Work Plan was received on 26 July. The purpose of the annual work plans is to identify specific activities that Reclamation plans to implement during the coming federal fiscal year (October 2017 through September 2018) to manage and mitigate salinity impacts to the Lower San Joaquin River Basin. The work plan was reviewed and accepted by the Central Valley Water Board's Executive Officer on 5 September. The acceptance letter underscored the importance of Reclamation's activities to pursue potential long-term funding for key main-stem San Joaquin River monitoring stations. In addition, the letter emphasized the need to schedule meetings soon with the water and irrigation districts, and state and federal refuges identified in the final work plan.

NPDES

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 Table 1, below, summarizes the notices of applicability that were issued between 1 July 2017 and 15 September 2017.

NPDES Table 1

Facility	Individual NPDES Permit Number (if applicable)	General NPDES Permit Number
Miller Springs Remediation Management, Inc., Winton Groundwater Remediation Site	N/A	R5-2016-0076-010
Carson Hill Gold Mine Project	N/A	R5-2016-0076-014
Recology Hay Road Landfill Dewatering Project	N/A	R5-2016-0076-012
Ice House Reservoir Auxiliary Dam Project	N/A	R5-2016-0076-013

DAIRIES/CONFINED ANIMAL FACILITIES

1. Inspections

Staff completed approximately 24 dairy inspections, including 21 compliance inspections through mid-September. The reason for doing fewer inspections early in the fiscal year is that staff is focusing on completeness reviews of the approximately 1,200 annual reports received on July 1st. Inspections will increase as we approach the rainy season.

2. Enforcement

Staff issued Notices of Violation (NOVs) to 51 dairies for failure to submit an annual report for the 2016 calendar year, which was due 1 July 2017. Staff will pursue formal enforcement for those dairies that do not submit the required Annual Report following receipt of their NOV. The overall compliance rate for annual report submittal was about 96%.

3. Digesters

Staff have an active role as Technical Advisory Committee members in the review of several dairy digester project proposals submitted to the California Department of Food and Agriculture (CDFA) under a competitive grant application process. The CDFA Dairy Digester Research and Development Program provides financial assistance for the installation of dairy digesters, with the primary goal of reducing methane emissions from dairy and livestock operations.

OIL FIELDS

4. Waste Water Surface Ponds

Notices of Intent (NOIs) for coverage under a General Order for discharges of oilfield wastes to land are being submitted by oilfield wastewater dischargers. We have received and reviewed 22 NOIs and we have issued one Notice of Applicability. The 21 other NOIs have been found to be incomplete and we are working with the Applicants to help them prepare complete NOIs that will satisfy the requirements of the General Orders.

Several operators are planning to close their wastewater disposal ponds rather than operate them under the General Orders. Some of the closures will have some form of waste left in place and may have to be regulated by individual post-closure waste discharge requirements. We continue to review monitoring reports required by Waste Discharge Requirements and technical reports that request rescission of groundwater monitoring requirements from recently issued Revised MRPs.

5. Spill Response

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services. Six significant events occurred in January and February.

- A spill of crude oil and oil field produced water into a dry stream bed occurred on the Formax West facility operated by Berry Petroleum, LLC. in the Midway Sunset Oil Field on 24 August 2017. The cause of the spill was reported as the failure of a pipeline. Reportedly, approximately 2-bbls of crude oil and 2-bbls of oil field produced wastewater were discharged. On 24 August 2017, Staff inspected the spill site and observed cleanup activities in progress in the affected stream bed. Reportedly, staff of the California Department of Fish and Wildlife inspected the incident site on 30 August 2017 and signed-off on the site cleanup.
- A spill of crude oil and oil field produced water into a dry stream bed occurred on the Rasmussen facility operated by Chevron USA, Inc., in the Kern River Oil Field on 14 August 2017. The sources of the spill was reported as a leak from a well head. Reportedly, approximately 50-gallons of a mix of crude oil and produced wastewater were discharged. Staff inspected the spill site on 14 August 2017 and observed cleanup activities in progress. Concurrently, staff of the California Department of Fish and Wildlife inspected the spill site.
- A spill of crude oil and oil field produced water into a dry stream bed occurred on the Keene facility operated by Sentinel Peak Resources California, in the Midway-Sunset Oil Field on 4 September 2017. The cause of the spill was reported as a power outage causing a malfunction at a wastewater tank resulting in the over flowing of fluids. Reportedly, approximately 159-bbls of crude oil and 3,981-bbls of produced wastewater were discharged. Staff inspected the spill site on 5 September 2017 and observed cleanup activities in progress. Staff will inspect the spill site to ascertain the conditions of the affected dry stream bed after completion of cleanup activities.

Staff is considering appropriate enforcement for the spills.

6. UIC Program

Staff issued one letter of completion and followed up with three operators regarding information Orders (13267 Orders). The 13267 Orders were issued to oil field operators requesting technical reports on injection well(s) that have potentially been injecting Class II fluids produced by oil or gas extraction activities into an aquifer that may not have been properly designated as an exempt aquifer under the federal Safe Drinking Water Act. The 13267 Orders require operators to either provide specific technical information, or to provide technical justification that their injection well(s) is injecting into an exempted aquifer/zone and therefore should not receive a 13267 Order.

Staff have participated in discussions with State Board staff, staff of the Division of Oil Gas and Geothermal Resources (Division), and oil field operators regarding three Aquifer Exemption applications (Kern Front, McKittrick, and Cymric).

Meetings have been held with staff from all three agencies (State Board, Regional Board, and the Division) to develop a process to address project-by-project reviews for approximately 600 existing UIC projects within the Central Valley.

Central Valley Water Board staff have recently been identified by State Board as having the lead role in reviewing Underground Injection Control (UIC) projects within the Central Valley Region. Staff completed a review of an injection project in the Antelope Hills Oil Field, and provided the Division with a review of the project. Staff are currently reviewing UIC projects submitted to the Division for waste water disposal into a portions of the McKittrick, Midway-Sunset, Mount Poso, and Poso Creek Oil Fields.

7. Senate Bill 4 (SB-4) Program

Staff have completed five SB4 well stimulation Application package reviews, and submitted written comments to the State Board. Four Application packages were for the South Belridge oil field, and one was for the Buena Vista Nose area. A total of twenty nine Applications were reviewed. One Application package is under review.

Information provided by various Operators and associated with Model Criteria groundwater monitoring requirements are under review. Information being reviewed is for: Chevron – Lost Hills; Aera – Lost Hills; Breitburn Partners – North and South Belridge Oil Fields; California Resources Corporation – “Palla area”; and California Resources Corporation – North Coles Levee.

On 31 August 2017, Regional Board staff conveyed to the State Board review comments associated with California Resources Corporation proposed groundwater monitoring exclusion submittal for Section 33S in Elk Hills. The State Board will compile their staff comments and Regional Board comments, and convey them to the Operator.

State Board staff has prepared an internal draft document associated with State Board and Regional Board well stimulation application review responsibilities. This is the result of recent discussions between Division of Oil, Gas, and Geothermal Resources representatives and State Board representatives.

8. Food Safety

Several rounds of crop sampling were conducted during July and August 2017. Third party samplers, with oversight by Central Valley Water Board staff, sampled garlic, almonds, and grapes from land irrigated by the Cawelo Water District. Control samples were collected from crops that are not irrigated by Cawelo. Central Valley Water Board staff are preparing sampling reports and awaiting analytical results from Weck Laboratories. Dr. Stringfellow, science advisor to the Board, is preparing a report of citrus sampling results, and will prepare a report of the results of other crops once analytical results become available.

Central Valley Water Board staff continue to work with stakeholders to obtain a Memorandum of Understanding (MOU). Once in place, the MOU will establish a process for obtaining a consultant, and funding for future studies related to Food Safety.

A roundtable meeting of the members of the Food Safety Expert Panel was held on 20 September 2017. During the meeting, the Food Safety Expert Panel discussed sampling results, a study being conducted by Duke University, proposed studies on isotopes, and proposed soil studies. Central Valley Water Board staff attended the meeting to help facilitate the discussion. Staff provided a presentation on water quality of the districts providing blended or produced water for irrigation. The Food Safety Expert Panel prepared for their next public meeting, scheduled to take place on 7 November, 2017 in Rancho Cordova. At that meeting a schedule will be set for future public meetings.

GROUND WATER STRATEGY

The Addendum to the Groundwater Quality Protection Strategy (GWQ Strategy) is available on the Groundwater Quality section of the website listed below. The Addendum updates the sections of the GWQ Strategy that include statewide policies and regulations, changes or additions to the Central Valley Water Board regulatory programs, and identified completed and new actions to protect groundwater quality. The Groundwater Quality Protection Strategy, Addendum, can be found on the Groundwater Quality section of the Central Valley Water Board's website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

The following is a brief status report of ongoing implementation of tasks for actions identified in the June 2013-2015 Workplan and Addendum.

Action 6.4.1 Develop a Salt and Nitrate Management Plan for the Central Valley. The initiative is a collaborative stakeholder effort that includes the Central Valley Water Board as a stakeholder. CV-SALTS completed a Salt and Nitrate Management Plan in December 2016. The SNMP was heard at a 9 March 2016 Board hearing, where the Board considered a resolution to accept the SNMP and whether to direct Board staff to implement basin plan amendments to implement the plan. More details on CV-SALTS activities can be found in the Salinity and CV-SALTS section of this EO report. Information is also available at: <http://cvssalinity.org/>

Action 6.4.2 Implement consistent and scientifically sound groundwater quality monitoring program. To implement this action a Groundwater Monitoring Advisory Workgroup (GMAW) composed of groundwater experts, which includes representatives from State and Regional Water Boards, USGS, academia, and private consultants was formed. The GMAW has identified several technical issues related to groundwater monitoring. The volunteer GMAW is tasked with development of white papers for each of the technical issues. Two on-going efforts are working on related issues, a statewide committee is reviewing the Antidegradation Policy and guidance on its implementation with respects to groundwater, and CV-SALTS is looking at policy issues related to assimilative capacity. The results of these two efforts may impact the approach or guidance that would be outlined in the GMAW white papers. Therefore, to avoid duplication of efforts, staff is engaged with both. Discussions are taking place to determine how best to coordinate the GMAW and CV-SALTS Technical Advisory Committee.

GMAW meeting information can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

Information on the State Water Resources Control Board review of the Antidegradation Policy Application to Groundwater can be found at: http://www.waterboards.ca.gov/plans_policies/antidegradation.shtml

Action 6.4.3 Implement Groundwater Quality Protection Programs through the Integrated Regional Water Management Plan Groups. The goal of this action is to leverage and expand groundwater quality program coverage through improved coordination and partnering with local regional groups that receive State funds through the Integrated Regional Water Management (IRWM) process. Efforts continue to encourage Regional Water Management Groups outreach to Disadvantaged Communities. Education on Supplemental Environmental Project funding sources that may be available for IRWM plan projects, specifically those that benefit disadvantaged communities, continues with the distribution of a factsheet that is available at: http://www.waterboards.ca.gov/centralvalley/water_issues/enforcement/sep_apr2015_fact_sheet.pdf

On-going staff participation in IRWM groups (or Regional Water Management Groups) is included under the Public Outreach section of this EO report.

Action 6.4.5 Well Design and Destruction (Abandonment) Program. Staff has reviewed and evaluated county well ordinances. Personnel at county agencies (health departments) have been contacted to determine the specific methods currently used to oversee and enforce well standards. Staff has completed a draft report, currently under management review, that summarizes those tools and methods of well standards enforcement and addresses potential issues with some of the current well standards.

Action 6.5.1(b) Develop General Order for Poultry, Cattle, or Other Confined Animal Facilities. The goal of this action is to protect groundwater from waste associated with the operation of confined animal facilities including

poultry raising and egg laying facilities, bovine feedlots (heifer ranches, beef cattle yards, etc.), and other types of confined animal facilities not covered by the Dairy General Order. A General Order for poultry facilities was considered and adopted by the Central Valley Water Board at its December 2016 meeting. A General Order for Confined Bovine Feeding Operations was considered and adopted by the Central Valley Water Board at its June 2017 meeting.

Action 6.5.2(a) Implementation of the Long-Term Irrigated Lands Regulatory Program (ILRP). The goal identified in the roadmap was to implement a program that establishes a groundwater protection program for wastes associated with irrigated agricultural practices. More detail on the Long-Term ILRP development and implementation can be found under the Irrigated Lands Regulatory Program section of this EO Report or found at: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/index.shtml

Action 6.5.2(b) Coordinate with California Department of Food and Agriculture (CDFA) to identify methods to enhance outreach, education, and research through CDFA's fertilizer research and education program. The goal of this action is to reduce groundwater quality impacts from use of nitrogen based fertilizing materials in agricultural, commercial, and residential applications. ILRP staff is coordinating with CDFA on the nitrogen management certification training for Certified Crop Advisors and individual growers and the development of nitrogen removed calculator for use by the agricultural coalitions. Staff is coordinating with CDFA to augment the irrigation element of the nitrogen management certification training and possibly include information on the summary reporting requirement.

Action 6.5.3 Reduce Site Cleanup backlog. The goal of this action is to reduce the number of inactive cases (i.e., the case backlog) in the Site Cleanup Program. During the 2016/2017 fiscal year, 94 open, *inactive sites were reviewed. Of these, 73 were eliminated from the backlog. This includes sites that were closed, are under another agency's lead, were assigned to staff, found to be duplicates of another site entry, or were found to be informational only.* Of the cases reviewed, 22 need additional staff time and effort on the responsible parties part to resolve, and includes 7 sites in which site information has not yet been located. Since the backlog reduction project began, 791 sites have been reviewed, with 513 being eliminated from the backlog, and about 278 identified as requiring additional resources.

Action 6.5.4(c) Reduce backlog of existing Waste Discharge Requirements (WDRs) to be updated and new WDRs to be developed.

Staff is continuing to enroll dischargers into the state-wide Small Volume Domestic Order and include rescissions of old WDRs into regular Central Valley Water Board meeting agendas.

The State Water Board updated the state-wide general order for water recycling in June 2016. Regional Water Board staff has notified the individuals enrolled in the previous, 2014 general order and enrolled them in the new order. The new general order is a useful tool to encourage water recycling.

State Water Board staff has targeted two additional general orders for consideration (a Winery General Order and an Aggregate General Order). Region 5 staff is involved directly with the development of these general orders. Development of these orders is expected to reduce the number of backlogged applications by approximately, but is also expected to speed up the processing of applications for WDRs from new or expanding facilities.

Regional Water Board staff is beginning the process of developing general orders for domestic wastewater treatment facilities that discharge more than 100,000 gallons per day, nut hulling facilities, and canned and frozen food processors and working with the industry representatives for consideration of draft general orders.

Staff has been tracking time to monitor effectiveness of its Lean 6 Sigma project implementation measures. A new electronic time tracking spreadsheet has been implemented this fiscal year to better understand where the biggest time sync in the permitting process occurs. This will allow staff to focus attention to improving this part of the process. Improvements through Lean 6 Sigma and drafting new general orders will help reduce the backlog of existing WDRs.

Action 6.15 Onsite Wastewater Treatment Systems (OWTS) Policy Implementation; Local Agency Management Program (LAMP) Reviews

The OWTS Policy gives Local Agencies, mostly county environmental health departments, an option to propose Local Agency Management Programs (LAMPs). The goal of these programs is to demonstrate adequacy of local codes and ordinances to meet new minimum standards both for human health and water quality protection. Draft LAMPs were due to the Central Valley Water Board by 13 May 2016. Staff received 29 of 30 LAMPs from Local Agencies within the Central Valley by the deadline, and one late submittal afterward. Staff is also responsible for reviews of 8 LAMPs that partly extend into the Central Valley, but under external Regions' jurisdictions. Staff members in the Redding, Rancho Cordova, and Fresno Offices are coordinating reviews in detail. The OWTS Policy has a deadline of 13 May 2017 for Regional Board LAMP approvals. Central Valley Water Board staff have completed reviews of all LAMPs, and resolved all issues with local environmental health directors. Two remaining LAMPs are incomplete; we await revised versions. Staff has reviewed 5 of 8 LAMPs from external Regions and awaits requests for reviews on the remainder. Prior to public noticing and recommendation to the Central Valley Regional Board for consideration, staff requests Local Agencies to gain their Board of Supervisors' approvals, and related new code adoptions. The Central Valley Water Board has approved 21 LAMPs. Of which, 16 or 53 % were approved by the Central Valley Water board by the OWTS Policy Deadline. Local Agencies with LAMPs that lack Regional Board approvals by 13 May 2018 will regulate either under OWTS Policy Tier 1 (generally more conservative than a LAMP) or local codes, whichever is more stringent. Staff regularly updates progress on the following webpage:
http://www.waterboards.ca.gov/centralvalley/water_issues/owts/lamp_reviews/index.shtml

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

Quarterly Stakeholder Meetings

Central Valley Water Board staff holds quarterly 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 25 October 2017 stakeholder meeting will be held at the Stanislaus County Farm Bureau, and the focused discussion will be on the updated State Board order regarding the East San Joaquin Petition or the Management Practices Evaluation Program. More information regarding the stakeholder meetings can be found on the Central Valley Water Board ILRP website:

http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_land/regulatory_information/stakeholder_advisory_workgroup/index.shtml

Waste Discharge Requirements (WDRs) Development

State Water Board's Proposed Order Issued in Response to Petitions on Eastern San Joaquin Agricultural Waste Discharge Requirements

On 8 February 2016, the State Water Board issued a proposed precedential order in response to the petitions regarding the General Order No. R5-2012-0116 for growers within the Eastern San Joaquin River Watershed (SWRCB/OCC Files A-2239(a)-(c)). The State Water Board order proposed changes to the current General Order, including field-level reporting to the Water Board, domestic well monitoring, and development of numeric targets to assess nitrogen loading to groundwater. Central Valley Water Board members and staff briefed State Board members in Spring and Fall 2016, presented information during the State Board and staff Workshops, and provided written comments on the proposed order. Staff met with agricultural coalition and environmental justice representatives to discuss issues raised during the Workshops. In the various venues, staff has explained how the current ILRP components can be clarified to address the intent of the proposed order. State Water Board plans to release an updated draft order in Fall 2017, with another 45 day comment period and workshop. More information regarding the proposed State Water Board order can be found at the State Water Board [web page](http://www.swrcb.ca.gov/public_notices/petitions/water_quality/a2239_sanjoaquin_ag.shtml):

http://www.swrcb.ca.gov/public_notices/petitions/water_quality/a2239_sanjoaquin_ag.shtml

ILRP Compliance, Outreach & Enforcement

Renewed Outreach for Non-enrolled Operations

On 18 September 2017, staff mailed 80 outreach letters to likely owners of commercial irrigated farmland within the San Joaquin County and Delta area. The letters are intended to improve outreach efficiency by providing landowners an opportunity to contact the Water Board prior to staff issuing a Water Code section 13260 directive.

Staff has also developed an outreach tri-fold that describes the Central Valley Water Board and its mission on one side and the ILRP on the other. Staff will work with the State Water Board's Office of Public Participation to translate the tri-fold into other languages. The tri-fold will be sent with future outreach letters and provided to the coalitions for distribution to interested parties. The tri-fold can be found on the Central Valley Water Board ILRP web page:

http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_land/outreach_trifold.pdf

Agricultural Parcel Inspections

The purpose of these inspections is to determine if the parcels are commercial irrigated lands that require coverage under the Irrigated Lands Regulatory Program. Data gathered during these inspections will be used to focus and prioritize the issuance of 13260 directives to commercial irrigated lands that are not covered by the ILRP. Growers may obtain coverage by joining an agricultural water quality coalition and enrolling in the associated ILRP general order or enrolling in the ILRP individual general order. The table below presents parcel inspections conducted for each coalition area. Coalition areas not shown had no inspections during the reporting period.

Coalition Area	Parcel Inspections July 3 – Sept 15
East San Joaquin	96
Sacramento Valley	145
West San Joaquin	2
Kings River	17
Total	260

On-Farm Inspections for General Order Compliance

On 24 August 2017, ILRP staff conducted the first on-farm inspection of the 2017-18 fiscal year at a walnut orchard in Solano County. The purpose of these inspections is for board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. These inspections include staff review of the farm evaluation and nitrogen management plan and related summary reports; and inspection of site conditions, including potential discharge points to surface waters, pollution management practices, chemical storage and handling areas, and wellhead protection. Staff found the walnut orchard to be in compliance with the applicable ILRP general order.

Water Code Section 13260 Directives

These directives are sent to owners of commercial irrigated lands as identified through staff inspections of agricultural-zoned parcels. The recipients are required to submit a Notice of Intent to obtain either group or individual regulatory coverage within 15 days of receipt of the directive. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	Directives Mailed July 3 – Sept 15
East San Joaquin	1
Kings River	54
Total	55

Notices of Violation for Failure to Respond to a Water Code Section 13260 Directive

Notices of Violation (NOVs) are sent to landowners who fail to respond to a 13260 Directive. These owners of commercial irrigated lands were previously mailed directives that required the recipients to submit proof of coalition membership or a Notice of Intent to get regulatory coverage. The NOVs give the recipients 15 days to respond or face administrative civil liability. The table below presents NOVs mailed by coalition area. Coalition areas not shown had no NOV mail outs during the reporting period.

Coalition Area	NOVs Mailed July 3 – Sept 15
East San Joaquin	58
Sacramento Valley	52
San Joaquin County & Delta	8
Kern River	1
Total	119

Notices of Violation for Failure to Submit Nitrogen Management Plan Summary Reports

On 15 September 2017, Notices of Violation (NOVs) were sent to 5 Kaweah Basin Water Quality Association Coalition members for their failure to submit Nitrogen Management Plan summary reports by the Board-approved deadline of 1 March 2016. The NOVs require the members to provide their summary reports to both the Coalition and the Water Board. Response results for the NOVs are pending.

Coalition Enrollment Summary

The tables below provide the latest coalition enrollment data based on coalition member lists submitted annually to comply with the ILRP General Order requirements, subsequent voluntary updates to member lists, and Central

Valley Water Board staff identified additional enrollment data. The ILRP General Orders require coalitions to provide enrollment data each July and Water Board staff requests a voluntary update in December to ensure accurate information for annual billing. Executive Officer Reports produced in months when coalitions are not required to provide member and participant information are updated using Water Board staff enrollment information.

Coalition Group	CA Rice* Comm.	East San Joaquin	Grasslands Drainage Area	Sacramento Valley	San Joaquin Co. & Delta	Western San Joaquin R.	Totals
Participating Growers							
Number of Growers, Pre-Order	2,500	2,225	N/A	7,888	3,256	2,450	18,319
Number of Growers, Participant List (2017)*	2,500	3,382	100	8,149	3,528	2,505	20,164
Number of Growers Enrolling Land Due to Directive/eNOI (July 7, 2017 – Sept 14, 2017)***		20		37	47	1	105
Enrolled Acreage							
Number of Acres, Pre-Order	544,468	535,653	N/A	1,183,491	348,200	467,625	3,079,437
Number of Acres, Participant List (2017)*	536,000****	702,081	83,913	1,332,327	516,357	431,452	3,602,131
Number of Acres, Annual Fees (2016-2017)**	536,000****	698,701	80,859	1,330,502	413,126	433,324	3,492,512
Number of Acres added due to Directive/eNOI (July 7, 2017 – Sept 14, 2017)***		1,102		1,756	3,701	551	7,110

* Grower participant lists are updated yearly by the Coalition Group on 31 July. Staff calculates the number of acres and participants based on data provided in the participant lists.

** Grower annual fees are submitted yearly by the Coalition Group in Jan-Feb for the fiscal year. Annual Fees only report irrigated acres and do not report participants.

*** Growers and acres calculated by staff on 14 September 2017.

****Per the Order, the CA Rice Commission is not required to submit a participant list and the acreages are updated annually for fees.

Coalition Group	Buena Vista	Cawelo	Kaweah Basin	Kern River	Kings River	Tule Basin	Westside	Westlands	Total
Participating Growers									
Number of Growers, Pre-Order	3,794 (Southern San Joaquin Water Quality Coalition)							1,070	4,864
Number of Growers, Current Participant List (2016)*	42	87	1,272	762	4,658	1,012	42	1,247	9,122
Number of Growers Enrolling Land Due to Directive/eNOI (May 1, 2017 – July 3, 2017)***	0	0	4	10	22	3	0	0	39
Enrolled Acreage									
Number of Acres, Pre-Order	957,362 (Southern San Joaquin Water Quality Coalition)							507,489	1,464,851

Number of Acres, Current Participant List (2016)*	32,930	33,818	158,842	528,687	785,692	224,264	148,034	487,526	2,095,061
Number of Acres, Previous Annual Fees (2015-2016)**	30,788	34,524	163,422	522,776	761,019	225,018	99,761	490,495	2,327,803
Number of Acres added due to Directive/eNOI (May 1, 2017 – July 3, 2017)***	0	0	257	3,150	1,909	327	0	0	2,040

* Grower participant lists are updated yearly by the Coalition Group on 31 July.

** Grower annual fees are submitted yearly by the Coalition Group in Jan-Feb for the fiscal year. Annual Fees only report irrigated acres and do not report participants.

*** Growers and acres calculated by staff on 3 July 2017

Sacramento River Watershed Coalition Groups

California Rice Commission

On 21 September 2016, Water Board staff provided informal comments to the California Rice Commission on the draft Quality Assurance Project Plan (QAPP) update submitted on 27 May 2017. A revised QAPP addressing the staff comments was submitted on 4 May and was approved by the Executive Officer on 14 August 2017.

Sacramento Valley Water Quality Coalition

On 10 July, the Coalition submitted its second draft Groundwater Quality Management Plan (GQMP). It is under staff review.

On 1 August 2017, the Coalition submitted the 2018 water year Monitoring Plan Update report. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2017 and September 2018. The report is currently under staff review.

On 3 August 2017, the Executive Officer approved the Coalition's surface water quality management plan (SQMP) for *Hyalella azteca* sediment toxicity in Z-Drain in the Dixon-Solano Subwatershed. The SQMP is a site-specific management plan that will be included as an addendum to the Coalition's Comprehensive SQMP.

On 15 August 2017, the Executive Officer approved the Coalition's surface water quality management plan for Malathion in the Lower Colusa Basin Drain. The SQMP is a site-specific management plan that will be included as an addendum to the Coalition's Comprehensive SQMP.

On 15 August 2017, the Executive Officer approved the Coalition's surface water quality management plan (SQMP) for Malathion in Willow Slough the Yolo Subwatershed. The SQMP is a site-specific management plan that will be included as an addendum to the Coalition's Comprehensive SQMP.

On 17 August 2017, the Coalition submitted an amendment to the 2018 water year Monitoring Plan Update to account for Delta RMP contributions. The request is currently under staff review.

San Joaquin River Watershed Coalition Groups

East San Joaquin Water Quality Coalition

On 14 July, staff's review of the 2017 Annual Monitoring and Management Plan Progress Reports, covering the period 1 October 2015 through 30 September 2016, was provided to the Coalition. The Coalition complied with all MRP Order monitoring and reporting requirements.

On 24 July, the Executive Officer approved the Coalition's revised Comprehensive Groundwater Quality Management Plan (GQMP). The GQMP addressed all of the staff comments, and meets the terms and conditions of the Order.

On 28 July, the Executive Officer approved the Coalition's Proximity to Tertiary Tributaries Analysis Report. The Coalition will include a record of parcels identified and exempted through the Tertiary Tributaries Analysis in the 2018 Annual Report.

On 1 August, the Coalition submitted the 2018 water year Monitoring Plan Update report, including an excel workbook of the monitoring schedule and the Pesticide Evaluation Protocol Results. The report is currently under review.

On 1 September, the Coalition submitted an addendum to the 2017 Annual Report Farm Evaluation Summary Analysis. The Coalition received an additional 557 Farm Evaluations since the submittal of the Annual Report, bringing the total survey responses received to 91%. Staff is actively pursuing on-farm inspections to bring noncompliant members into compliance with the Order.

On 1 September, the Coalition submitted an amendment to the 2018 water year Monitoring Plan Update to account for Delta RMP contributions. The request is currently under staff review.

On 1 September staff received the Coalition's Quarterly Monitoring Data Report for January to March 2017.

San Joaquin County and Delta Water Quality Coalition

On 16 June, the Executive Officer sent the Coalition a letter requiring development and implementation of a management plan for Norman's Nursery in Linden. This letter followed a May site visit and subsequent meetings regarding the need for a site management plan to address both ground and surface water nitrate exceedances. The letter required a management plan outline be submitted by 31 July.

On 31 July, the Coalition submitted an outline for the Norman's Nursery Management Plan, which is under staff review. Coalition representatives and Water Board staff held a phone conference to discuss the outline on 13 September.

On 2 August, staff completed its review of the SJD Coalition's Annual Monitoring Report and Management Plan Progress report covering the period October 2015 through September 2016. The Coalition is complying with the Order requirements. The Nitrogen Management Plan Summary section of the AMR will be reviewed under a separate cover.

On 1 August, the SJD Coalition submitted its annual 2017 Monitoring Plan Update by the Order's deadline. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2017 and September 2018. It is under staff review.

On August 16, the SJD Coalition and staff held a meeting to discuss: the Delta Regional Monitoring Program monitoring reductions for the 2018 Water Year, the Monitoring Plan Update, and the pesticide evaluation protocol as it pertains to the Coalition's monitoring program.

On 24 August, staff received public comments regarding the May 2017 San Joaquin County and Delta Water Quality Coalition's Nitrogen Management Plan. Some concerns raised include: issues with nitrogen calculations by township, management units should use the same irrigation and nitrogen practices and complications with township reporting, and more clarity on applied practices. Staff will consider the comments and prepare a NMP review.

On 1 September, the San Joaquin County and Delta Water Quality Coalition (Coalition) submitted its Quarterly Monitoring Data Report for the period between January through March 2017, as required by Order.

On 1 September, the Coalition submitted a revised Monitoring Plan. The revision includes: updated monitoring reductions to support the Delta Regional Monitoring Program; updated lab analytical methods for new pesticides resulting from the pesticide evaluation; and additional diuron monitoring at Unnamed Drain.

Westside San Joaquin River Watershed Coalition

On 30 June 2017, the Coalition submitted a report with maps and a list of member parcels adjacent to select surface waters that are proposed to be exempted from the requirement to develop and implement a certified Sediment and Erosion Control Plan. The exemptions are proposed due to the presence of a physical barrier preventing discharge to surface water. The report is currently under staff review. Based on a discussion held on 18 September, the Coalition will submit a proposed schedule for conducting an evaluation of parcels that are adjacent to the remaining water bodies in their region.

On 31 July, the Executive Officer conditionally approved the Coalition's third revised Comprehensive Surface Water Quality Management Plan (SQMP), and required listed items still needing revisions be addressed through submittal of a fourth revised Plan. In response, the Coalition submitted a fourth revised Comprehensive SQMP on 15 August. The fourth revised version is scheduled to be reviewed by staff.

On 14 August, Water Board staff and Coalition representatives held the third quarter 2017 meeting to discuss reports and deliverables, management plan development and status, water quality data, and any other issues requested. One of the main topics of discussion was the need to align the reporting periods of the annual Monitoring Plan Updates (MPUs) and Monitoring Reports (AMRs). Currently, the MPUs describe upcoming monitoring for March through February, and AMRs describe monitoring that occurred September through August. This has caused difficulties completing the AMR staff review, since there isn't one MPU that describes what should be included in the AMR. The issue becomes increasingly complex when transitioning between Targeted and Assessment Monitoring. After the meeting, the Coalition presented an alignment proposal and Water Board staff worked with the Coalition to resolve some timing issues. The Coalition submitted a letter to the Executive Officer (EO) requesting a transition from AMRs due 30 November to 30 June, and MPUs from 15 January to 15 December. The proposed reporting periods will align each year in both documents.

On 15 August, the Coalition submitted an SQMP for pesticides and toxicity. The Pesticides and Toxicity SQMP is scheduled to be posted for public comment and reviewed by staff.

On 6 September, the Irrigated Lands Regulatory Program sent a review letter for the November 2016 Annual Monitoring Report (AMR). The review letter found that most items were complete and that a revised AMR was not required, but that several items will need to be addressed in the November 2017 AMR.

Grassland Drainage Area Coalition

On 16 January 2017, the Comprehensive Groundwater Quality Management Plan (GQMP) for the Grassland Drainage Area was submitted to the Central Valley Water Board. On 11 May Water Board staff sent informal comments on the draft GQMP to the Coalition. On 31 August staff received a revised GQMP. The revised GQMP is currently under staff review.

On 15 May 2017, the Grassland Drainage Area Coalition submitted the Basin Plan Amendment Workplan. The workplan was submitted to request that groundwater in specific high vulnerability areas be de-designated for beneficial uses where they would not be supported even in the absence of the discharge of waste. On 27 July, the Executive Officer issued a review of the workplan requesting that additional information be provided in a revised draft by 1 December 2017 to meet the requirements of Order R5-2015-0095.

Tulare Lake Basin Coalition Groups

Buena Vista Coalition

On 15 September 2017, Staff provided reviews of the Buena Vista Coalition's two Individual Groundwater Quality Management Plans (GQMPs). Staff noted certain areas of the GQMPs that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120 (General Order). Key elements that need to be addressed are the immediate need for growers to implement specific management practices (wellhead protection, proper destruction of abandoned wells, and accounting for nitrate in irrigation water) as a first step to protect groundwater quality, prior to availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report, and the identification of specific actions to be taken for growers identified as extreme outliers through the nitrogen management plan summary reports. The coalition is required to submit revised GQMPs by 30 October 2017.

Cawelo Water District Coalition

On 9 August 2017, Staff provided a review of the Cawelo Water District Coalition's Comprehensive Groundwater Quality Management Plan (GQMP). Staff noted certain areas of the GQMP that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120. Key elements that need to be addressed are the immediate need for growers to implement specific management practices (wellhead protection, proper destruction of abandoned wells, and accounting for nitrate in irrigation water) as a first step to protect groundwater quality, prior to availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report, and performance goals for implementation of those practices. The coalition is required to submit a revised GQMP by 22 September 2017.

Kaweah Basin Water Quality Association

On 25 August representatives of the Kaweah Basin Water Quality Association met with ILRP staff and supervisor. ILRP staff requested the meeting to discuss Surface Water Quality Management Plans and a schedule for completion/ submittal. Other items discussed were constituent exceedances, proposed relocation of two (2) monitoring sites, and the new pesticide protocol. KBWQA requested a monitoring site tour with ILRP staff that has been set for 20 September.

On 15 September 2017, Staff provided a review of the Kaweah Basin Water Quality Association's Comprehensive Groundwater Quality Management Plan (GQMP). Staff noted certain areas of the GQMP that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120. Key elements that need to be addressed are the immediate need for growers to implement specific management practices (wellhead protection, proper destruction of abandoned wells, and accounting for nitrate in irrigation water) as a first step to protect groundwater quality, prior to availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report, and performance goals for implementation of those practices. The coalition is required to submit a revised GQMP by 31 October 2017.

Kern River Watershed Coalition Authority

On 20 October 2017, Staff provided a review of the Kern River Watershed Coalition Authority's Revised Comprehensive Groundwater Quality Management Plan (GQMP). Staff noted certain areas of the GQMP that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120. Key elements that need to be addressed are the immediate need for growers to implement specific management practices (wellhead protection, proper destruction of abandoned wells, and accounting for nitrate in irrigation water) as a first step to protect groundwater quality, prior to availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report, and performance goals for implementation of those practices. The coalition is required to submit a revised GQMP by 31 September 2017.

Tule Basin Water Quality Coalition

On 27 July 2017, Staff provided a review of the Tule Basin Water Quality Coalition's Comprehensive Groundwater Quality Management Plan (GQMP). Staff noted certain areas of the GQMP that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120 (General Order). Key elements that need to be addressed are the prioritization of groundwater quality management plan areas, identification of specific management practices to be implemented prior to the availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report, and performance goals for implementation of those practices. The coalition is required to submit a revised GQMP by 15 September 2017.

Westlands Water Quality Coalition

On 13 July 2017, Zaira Lopez-Narvaez and David A. Sholes met with Charlotte Gallock (Westlands Water Quality Coalition), Melissa Turner (Michael L. Johnson LLC), and Michael Johnson (Michael L. Johnson LLC) to discuss the Surface Water Monitoring Program. The meeting focused on discussing various topics such as water quality data submittals, Quality Assurance Project Plan review status, Surface Water Monitoring Plan, and the new Pesticide Evaluation Protocol. The next quarterly meeting with the Westlands Water Quality Coalition will be scheduled for October 2017.

Other Projects

Data Management

Data collected prior to 2009 will continue to be available on the ILRP surface water quality data webpage until those sets are processed and transferred to the California Environmental Data Exchange Network (CEDEN), the central location to find information about California's water bodies. Staff is currently processing the Westside SJ River, California Rice Commission, and Sacramento Valley Water Quality Coalition data collected between 2004 and 2008. Once complete, this set will complement the existing data on CEDEN providing all of the data submitted by the coalitions since program inception.

In the past, all ILRP data was transferred to CEDEN through the Central Valley Regional Data Center (CVRDC). Recently there have been changes to the process. Some coalitions continue to use the CVRDC to transfer their data to CEDEN. This transfer occurs approximately once per year in May, when annual reports are due. Other coalitions send their data to ILRP staff, who have been coordinating with State Water Board SWAMP staff at the Office of Information Management & Analysis to develop a new process for loading monitoring data into CEDEN.

After ILRP staff performs a completeness check, SWAMP staff can load the monitoring data to CEDEN on a schedule of once per month. ILRP data has been partially processed but not yet loaded onto CEDEN using this process. Staff will continue to report on this effort.

Grassland Bypass Project

On 31 August 2015, the U.S. Bureau of Reclamation submitted the draft Quality Assurance Project Plan for the Compliance Monitoring Program for the operation of the Grassland Bypass Project for staff review. As required by the Order, the draft Plan specifies the sampling and analytical procedures that must be followed by Grassland dischargers. However, some omissions were noted by staff. A revised QAPP was submitted on 27 April 2017 and comments provided by the State Water Board's Quality Assurance Officer were sent to the Bureau. The Quality Assurance Officer's comments must be addressed before the QAPP can be approved.

On 2 May 2017, the 2016 Annual Monitoring Report for the Grasslands Bypass Project was received by the Water Board. On 18 May, staff provided informal comments on the report to the Steering Committee. A revised draft was submitted on 15 June and was approved on 14 July.

Rice Pesticide Program

Thiobencarb monitoring for the 2017 rice growing season commenced on 3 May 2017. The monitoring season typically lasts for 10 weeks with weekly sampling conducted in weeks 1-3 and 8-10, and biweekly sampling conducted in weeks 4-7. Monitoring for the 2017 season concluded on 11 July.

Southern Coalitions Management Practices Evaluation Program (MPEP)

On 7 September 2017, Glenn Meeks and Eric Warren participated in a field trip to two farms where MPEP field studies will be performed. Prior to the field trip a meeting was held between the MPEP group and the Natural Resources Conservation Service, who provided a grant for some of the field and modeling studies to be performed under the MPEP. The purpose of the field trip was to familiarize the NRCS grant administrator with some of the studies that will be performed under the grant funding. The visited farms, located in the Kings River Watershed, included a farm owned by David Cehrs that grows citrus and almonds and a farm owned by Mark Mc Kean that grows almonds and a various other crops. Both farms meticulously document their irrigation and fertilization data. This data will be used to supplement the field study data and will speed up the study by providing approximately 10 years of well documented data.

NON POINT SOURCE (NPS)

1. Clear Lake Nutrient Control Program Update

Staff is developing an implementation status update report for the Clear Lake Nutrient Control Program for public review in fall 2017. Staff issued California Water Code Section 13267 Orders in 2016 to the five parties responsible for implementing the TMDL load and waste load allocations for phosphorus in order to document completed and ongoing activities. The parties include the U.S. Forest Service, U.S. Bureau of Land Management, Lake County Department of Water Resources, Caltrans, and irrigated agriculture. The parties submitted technical information that describes best management practices and other management measures the parties have implemented since June 2006, and plan to implement, to reduce phosphorus loads to Clear Lake. Staff is assessing the submissions and compiling additional information to determine compliance with the TMDL load and waste load reductions.

In addition, staff is evaluating the need and options for amending portions of the Nutrient Control Program including the compliance date (19 June 2017) and milestones for assessing implementation progress. Although many implementation activities have been completed and are in progress, available information indicates it is not possible to attain all allocations by the compliance date, primarily due to delays in acquiring funding to complete the Middle Creek Flood Damage Reduction and Ecosystem Restoration Project. Modelled projections for the Restoration Project indicated that completion would remove about a fifth of the phosphorus load entering the lake (about 40% of the phosphorus reduction needed from nonpoint source discharges).

Staff initiated a public participation process this past summer to obtain early public input on and help with identifying a range of potential implementation actions, alternatives, mitigation measures, and potentially significant environmental effects to be analyzed during the evaluation of possible changes to the Nutrient Control Program. Staff sent letters to nine Tribes in the greater Clear Lake region inviting them to meet. In response, staff were invited to attend the 10 July 2017 meeting of the Hinthil Environmental Resources Consortium (HERC) in Upper Lake, Lake County. Staff met with the Environmental Directors of the six Tribes in Lake County—Big Valley Rancheria Band of Pomo Indians, Elem Indian Colony, Habematolel Pomo of Upper Lake, Scotts Valley Band of Pomo Indians, Middletown Rancheria, and Robinson Rancheria—for a two hour discussion that focused on Tribal concerns, questions and ideas about potential changes to the Nutrient Control Program.

In addition, staff held a public outreach meeting in Lakeport, Lake County, on 28 August 2017. The meeting goals were to obtain public input on options for potential changes to the Clear Lake Nutrient Control Program, as well as possible environmental impacts that could result from different options and ways to avoid or mitigate these possible impacts. About 80 people participated in the meeting. Staff gave a 20-minute slide presentation that included an overview of the Clear Lake Nutrient Control Program, a summary of the status of implementation efforts, and staff ideas for potential changes to the control program. The remainder of the two and half hour meeting focused on discussion of stakeholder questions, suggestions, and concerns about potential changes to the control program. To date, staff have received written comments from 34 stakeholders following up on the August 28th meeting topics. All comments will be considered in the implementation status update report and evaluation of potential changes to the control program.

Staff plans to have additional workshops in Lake County in 2018 to review staff's upcoming implementation status update report and to discuss stakeholder questions and concerns about the implementation status of the control program. Central Valley Water Board Members will be invited to attend these workshops.

More information about the Clear Lake Nutrient Control Program as well as the outreach meeting materials and written comments can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml

2. **Cyanobacteria Blooms Update HABs Portal**

In 2016, the California Water Quality Monitoring Council developed a web-based portal "[Are harmful algal blooms affecting our waters?](#)" (HABs Portal). The HABs Portal tracks cyanobacteria and other harmful algal blooms (cyanoHABs) occurring in the Central Valley and across the state and functions as a "one-stop" resource for the public, waterbody managers and local health departments. The HABs Portal contains a map of California showing locations where cyanoHABs are being voluntarily reported and provides useful information on how to report a bloom, how to identify a cyanoHAB, and guidance documents for local waterbody managers and health agencies on posting advisories, proper field sampling protocols and laboratory resources.

Central Valley Bloom Notifications and Response

CyanoHABs have become a frequent occurrence across the state and in Central Valley waters. Table 1 summarizes the suspected and confirmed cyanobacteria blooms reported to the Central Valley Water Board in 2017. Staff responded to five reports of cyanoHABs in July, nine in August, and two in September. In all, staff has received 29 reports of suspected blooms in Central Valley waterways throughout the entire 2017 bloom season.

In preparation for the Labor Day weekend, State and Regional Water Board staff conducted sampling at several lakes statewide to assess the presence of cyanobacteria and cyanotoxins. State and Central Valley Water Board staff conducted sampling at a number of popular recreation sites in Central Valley waters, including Lake Shasta, Lake Britton, Lake Berryessa and Folsom Lake. The State Water Board issued a press release to describe the results of the Pre-Labor Day monitoring, which is located at the following website: http://www.waterboards.ca.gov/press_room/press_releases/2017/pr083117_habs_labor_day.pdf

Human Illness Associated with CyanoHABs

In 2017, there were several reports of human illness received by local health departments from people who reported falling ill after recreating in California waterbodies with cyanoHABs, including five in the Central Valley: Black Butte Lake, Clear Lake, Discovery Bay, Lake Isabella, and an unnamed ski lake in Orland. In many of the cases, respondents did not seek medical treatment and only reported the illness to the health department after the event took place. Others did seek medical treatment but physicians were unable to substantiate if the illness was a result of exposure to cyanoHABs. For most respondents, symptoms included gastrointestinal distress, nausea, headaches and fevers that may have been due to ingestion of cyanobacteria water and rashes due to dermal exposure. One reported case was respiratory in nature from a person who resides near a waterbody that has cyanoHABs. Their symptoms included difficulty in breathing, earache and generalized itching.

Pet and Wildlife Impacts Associated with CyanoHABs

For pet and domesticated animal impacts, there were two dog deaths, six cattle deaths and one sick cow reported in our Central Valley region. The dog deaths occurred in Lake Berryessa and an unnamed private water ski lake in Orland. The dogs did not have a post mortem examination so it is uncertain if they died from cyanotoxin exposure. Symptoms reported by the pet owners before the dogs died included foaming at the mouth, convulsions, diarrhea, vomiting and seizures. Staff heard anecdotal stories of other dog deaths possibly in the region but was unable to obtain pet owner information to verify the stories. The six dead cattle and one sick cow occurred in the area west of Orland on private property. The dead cattle did not have a post mortem examination but a vet is treating the sick cow and samples are being collected to determine cause of illness.

Wildlife impacts included fish kills, dead birds and ducks. Fish kills occurred in Clear Lake, Laguna Joaquin in Rancho Murieta, and the Rio Bravo Country Club in Kern County. The dead birds and ducks also occurred in some of these same waterbodies with the fish kills. It is unknown if the ducks and bird deaths were due to cyanotoxins or were the result of an avian flu.

The two notable fish kill events were in Clear Lake and Laguna Joaquin in Rancho Murieta. In Clear Lake, fish kills occurred in May, June, July and August with the largest event observed in late July and early August. During this event thousands of dead fish (e.g., shad, carp, bass and catfish) and birds washed ashore. The

fish kill was attributed to low dissolved oxygen resulting from high water temperatures and the decay of algal material from the dense cyanobacteria bloom that was occurring all summer long. Another fish kill was reported in September in Lucerne and Glen Haven but the cause is unknown at this time.

In Laguna Joaquin (Rancho Murieta), approximately 1,200 fish (e.g., bass, carp and catfish) died in August due to low dissolved oxygen after lake managers treated the lake for algae using copper sulfate. High air and water temperatures, low flow (stagnant conditions) and decaying algae contributed to the fish kill.

Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2017

Month	Report Name (Report ID)	Report Status	Cyanobacteria (<i>Genera</i>) Identified?	Site Previously Reported in 2016 ¹ ?	Toxin Detected
March	Oakwood Lake, Manteca, San Joaquin County (ID 1511)	Closed	Aphanizomenon, Woronochinia, Dolichospermum, Pseudanabaena	No	No toxin detected
March	Lake Clementine, Auburn, Placer County (ID 1516)	Closed	No cyanobacteria found in sample	Yes	Not tested
May	Clear Lake, Lake County (ID 1530, 1533, 1541, 1563, 1564, 1566)	Open	Dolichospermum and Microcystis	Yes	Microcystin
May	Natomas East Main Drain Canal (Steelhead Creek), Sacramento (ID 1531)	Closed	Not sampled, site not accessible for sampling	No	Not tested
May	San Luis Reservoir, Merced County (ID 1534)	Open	Dolichospermum, Aphanizomenon, Microcystis, Pseudanabaena	Yes	Microcystin
May	Barker Slough Pumping Plant, Dixon (ID 1537)	Closed	Dolichospermum, Pseudanabaena, Planktothrix, Aphanizomenon, and Cuspidothrix	No	Microcystin
June	Black Butte Lake, Orland, Tehama & Glenn County (ID 1542)	Closed	Dolichospermum, Aphanizomenon, Geosmin	No	Anatoxin-a
June	Unnamed Ski Lake, Orland, Glenn County (ID 1543)	Closed	Lyngbya, planktothrix, (one fragment of Dolichospermum) (reported dog death suspected to be related to known cyanobacteria bloom)	No	Anatoxin-a
June	Blue Lakes, Lake County (ID 1556, 1568)	Closed	Dolichospermum	No	Microcystin, Anatoxin-a
June	Lake Isabella, Kern County (ID 1558, 1559)	Open	Dolichospermum	Yes	Microcystin
June	Stone Lakes National Wildlife Refuge, Sacramento County (1560)	Closed	Dolichospermum, Planktothrix, Aphanizomenon	No	Anatoxin-a, Cylindrospermopsin, Microcystin, Saxitoxin
June	Discovery Bay, Contra Costa County (ID 1539, 1565)	Open	Unknown; Contra Costa County Health Services only samples for toxin not ID	Yes	Microcystin
June	Four Island Lake, Kern County (Private HOA lake)	Closed	Not sampled	No	Not tested

Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2017

Month	Report Name (Report ID)	Report Status	Cyanobacteria (Genera) Identified?	Site Previously Reported in 2016 ¹ ?	Toxin Detected
July	Lake Britton, Shasta County (ID 1583)	Open	Dolichospermum	Yes	Anatoxin-a
July	North Fork American River & Folsom Lake, Placer County (ID 1585, 1605-1614)	Open	Dolichospermum	Yes	Non-detect for Anatoxin-a
July	Copsey Creek, Lake County (ID 1588)	Open	Dolichospermum, Microcystis	No	Microcystin
July	Animal Stock Pond, Sacramento County	Closed	Not sampled	No	Not tested
July	Touchstone Lake, Sacramento County	Open	Dolichospermum, Oscillatoria, Planktothrix	No	Anatoxin-a
August	Lake Berryessa, Napa County (ID 1630, 1655-1659)	Open	Anabaena, Oscillatoria, Planktothrix, Spirulina, Cyndrospermum	No	Cyldrospermopsin, Anatoxin-a
August	Rio Bravo Country Club, Kern County	Open	Not sampled (reported dead fish and birds)	No	Not tested
August	San Joaquin River Stockton Deep Water Ship Channel, San Joaquin County (ID 1626-1629)	Open	Not sampled	Yes	Not tested
August	Big Break Regional Shoreline, Contra Costa County (ID 1619)	Open	Dolichospermum	Yes	N/A
August	Laguna Joaquin at Rancho Murieta, Sacramento County (ID 1633)	Open	Oscillatoria, Phormidium, Cyndrospermum, Melosira, Anabaena, Merismopedia	No	Microcystin-LR, Microcystin-RR
August	Shasta Lake, Shasta County	N/A	Unknown	Yes	None
August	West Drainage Canal, Sacramento County (ID 1632)	Open	Not sampled	No	Not tested
August	Lake Almanor	N/A	Unknown	Yes	None
August	Whiskeytown Lake	N/A	Unknown	No	None
September	Cache Creek (ID 1667)	Open	Unknown but looks like Microcystis	No	Unknown
September	Stock Pond West of Orland	Open	Unknown	No	Unknown

¹ The 'site previously reported in 2016' column only identifies if the site had a reported bloom in 2016. This is not meant to imply that a bloom did not occur there in 2016 or previous years. It only indicates whether a suspected or confirmed bloom was reported to the Water Boards.

GRANTS

Technical Assistance – Support Needs of Small Disadvantaged Communities (DACs)

The State Water Board has contracts in place with Rural Community Assistance Corporation, California Rural Water Association, and Self-Help Enterprises to provide technical assistance to small disadvantaged communities for drinking water and wastewater treatment services. A new Proposition 1 Technical Assistance Program is now available to address Small DACs drinking water, wastewater, groundwater quality, and stormwater needs under one program. For information on eligible activities visit the Office of Sustainable Water Solutions website at:

http://www.waterboards.ca.gov/water_issues/programs/grants_loans/sustainable_water_solutions/index.shtml

Current Funding administered through State Water Board

There are several financial assistance programs that are currently accepting applications for loan and grant funding for construction of municipal sewage and water recycling facilities, remediation for underground storage tank releases, watershed protection projects, nonpoint source pollution control projects, etc. More information can be found on the State Water Board's Division of Financial Assistance website and clicking on the Current Funding tab:

http://www.waterboards.ca.gov/water_issues/programs/grants_loans/

Staff continues to stay apprised of the various funding sources for water quality improvement projects to provide information to stakeholders as appropriate.

Storm Water Grant Program (SWGP) Proposition 1

The State Water Board is currently reviewing Storm Water Implementation Grant applications. Approximately \$80 million will be available for implementation projects in this first round of funding. Eligible project types include multi-benefit storm water management projects which may include, but shall not be limited to, green infrastructure, rainwater and storm water capture projects and storm water treatment facilities. Region 5 staff assisted the State Water Board in the grant proposal review process. The funding list may be seen at:

http://www.waterboards.ca.gov/water_issues/programs/grants_loans/swgp/docs/prop1/prop1_swgp_imp_r1_funding_list_approval.pdf

2018 Clean Water Act §319(h) NPS Grant Solicitation – Coming November or December 2017

Approximately \$4 million will be available for this solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. The solicitation guidelines will be issued in November or December 2017 and will be posted to: http://www.waterboards.ca.gov/water_issues/programs/nps/solicitation_notice.shtml

Clean Water Act §319(h) NPS On-going Grants:

Implementation of Agricultural Best Management Practices in Alfalfa, Almonds, and Cotton that Aid in Restoration of the San Joaquin River Watershed (\$749,997) – The Sustainable Cotton Project will continue work engaging more farmers of alfalfa, cotton, almonds and more acres in the Lower San Joaquin River watershed in implementing proven best management practices. There is an adopted chlorpyrifos and diazinon TMDL for the watershed. This grant works to reduce or eliminate farmers' use of diazinon and chlorpyrifos. (end date 6/30/19)

Eightmile Valley Sediment Reduction and Habitat Enhancement Project (\$749,992) – The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (end date 5/31/2019)

Timber Regulation and Forest Restoration Fund On-going Grants:

Ponderosa Way Road Assessment and Sediment Reduction Plan (Phase 1) (\$300,000) – The Resource Conservation District of Tehama County will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle

Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. (end date 4/30/2018)

Ponderosa Way Road Assessment and Sediment Reduction Plan Phase II) (\$500,000) – The Resource Conservation District of Tehama County will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area), prepare a fully-permitted, shovel-ready sediment reduction plan for the Project Area, and implement one or more demonstration projects in the Project Area. (end date 4/30/2019)

Battle Creek Watershed Based Plan (\$492,000) – The Battle Creek Watershed Conservancy will develop a Watershed-Based Plan and implement a sediment reduction demonstration project in the Battle Creek Watershed. (end date 4/30/2018)

Post-Fire Response to Forest Management (\$329,519) – The California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. (end date 4/30/2019)

Roadside Fuel Reduction (\$370,000) – The Yuba County Public Works Department will construct 185 acres of shaded fuel breaks along 30 miles of Yuba County roadways in the Yuba foothill state recreation areas in order to enhance fire safety and prevent water quality degradation that results from wildfires. (end date 4/30/2019)

North Butte County Road Inventory and Improvement Project (\$375,000) – The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. (to be executed by 6/31/2018)

Battle Creek Watershed Road Sediment Reduction Program Phase 1 & 2 (\$384,895) – The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to Battle Creek. The project will include a road assessment on 23 miles of native surface roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road and the preparation of CEQA documents. (to be executed by 6/31/2018)

Deer Creek North Yuba River Watershed Assessment and Sediment Reduction Plan (\$255,100) – The Tahoe National Forest will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. (to be executed by 6/31/2018)

GENERAL

- **Homeless Camps-Impacts to Water Quality**

On 6 September 2017, the Central Valley Water Board received a complaint regarding homeless camps along the American River, Arcade Creek, Dry Creek, and Steelhead Creek within the City of Sacramento (City) and County of Sacramento (County). The complaint cited concerns with the trash and waste generated by the homeless camps that may threaten runoff into the American River and other urban water ways within the City and County. Staff is working on responding to the complainant's specific concerns and working with the City and County of Sacramento to identify appropriate parties to invite to a meeting that will work on addressing the trash and other issues associated with homeless camps that could impact water quality.

- **Yolo Bypass Memorandum of Understanding**

In July 2017, Central Valley Water Board staff signed a Memorandum of Understanding between the Bureau of Reclamation and the Central Valley Water Board for cooperative development of the Yolo Bypass Salmonid Habitat Restoration and Fish Passage Environmental Impact Report. Staff has been working with the Bureau, Department of Water Resources, and the State Water Board in addressing the important water quality aspects of the Yolo Bypass projects. This has included the formation of a multi-agency group to consider a strategy for addressing water quality holistically in consideration of the numerous flood control and habitat projects in progress across the Yolo Bypass.

PUBLIC OUTREACH

On 12 July, Christine Joab attended a conference call hosted by the Association of Clean Water Administrators and US EPA to discuss the state's comments on the US EPA's Draft Recreational Criteria and/or Swimming Advisories for Cyanotoxins.

On 12 July and 13 September, Rebecca Tabor attended the Shasta Tehama Water Education Coalition's bi-monthly meetings in Red Bluff. Discussions included clarification of Sediment Erosion and Control Plan Certification Requirements.

On 20 July, Zaira Lopez-Narvaez attended the Clean Water State Revolving Fund Policy and Prioritization Workshop in Tulare, CA. The workshop focused on providing attendees with information about the application process. Attendees were able to discuss and provide feedback about the subject. State Board staff answered attendee's questions, comments, ideas, and concerns regarding the application process.

On 24 July, Rebecca Tabor attended SVWQC's monthly meeting in Red Bluff. Discussions included the work plan for Groundwater Quality Trend Monitoring, the Nitrogen Management Plan Summary Reports, and an overview of the 2018 Monitoring Plan.

On 25 July, Danna Berchtold and Lynn Coster attended the Hambright Creek Community Town Hall Meeting in Orland. The meeting addressed concerns with flooding and streambed maintenance associated with Hambright Creek. The creek is subject to seasonal flooding that impacts residents living in the area. Danna and Lynn provided a presentation on required permitting.

On 27 July, Dana Kulesza and Susan Fregien attended the California Nursery Conference, organized by the University of CA, Division of Agriculture and Natural Resources, Nursery and Floriculture Alliance. There were several presentations related to nursery production and water quality, which will aid staff in the early-stage effort to develop a Nitrogen Management Plan template that works for nursery and greenhouse production.

On 27 July, Christine Joab attended the California Cyanobacteria and Harmful Algal Bloom (CCHAB) Network meeting at the CalEPA Resources Building. Presentations included an update on the Alum Application at Pinto Lake, developing thresholds for benthic blooms and mats in the North Coast region, high frequency nutrient and biogeochemical monitoring to understand drivers and effects of constituent concentrations on blooms, the use of a FlowCam in the Sacramento-San Joaquin Delta to rapidly and reliably perform particle analysis, and a status update on the US EPA Ambient Water Quality Criteria for cyanotoxins.

On 27 July Alex MacDonald and James Taylor participated in the Sacramento Regional Contamination Issues Committee meeting at the Sacramento Groundwater Authority office in Citrus Heights, California. This is a meeting of Sacramento County water district representatives, regulatory agencies, and stakeholders to inform and collaboratively work together to address regional groundwater contamination issues. The agenda topics for the meeting included status reports on the cleanup progress at the former McClellan Air Force Base, and Aerojet facility, and other topics of concern in the north Sacramento County groundwater basin.

On 27 July, Zaira Lopez-Narvaez attended the Yosemite-Mariposa Integrated Regional Water Management (IRWM) group meeting. The meeting focused on member updates mainly concerning the Detwiler Fire which occurred in Mariposa County. Members also discussed possible topics for future presentations that could potentially help them come up with new projects in their area. The next quarterly meeting will be on October 2017.

On 1 August, Anthony Toto participated in a conference call, with the Kern Environmental Enforcement Network (KEEN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. Anthony updated the group on the status of a pile of oily contaminated dirt in Arvin.

On 1 August, Sue McConnell provided a presentation regarding the regulation of pesticides in the Irrigated Land Regulatory Program at the annual Western Plant Health Association Regulatory Conference.

On 7 August, Zaira Lopez-Narvaez attended the Madera County Storm Water Resource Plan (SWRP) Technical Advisory Committee (TAC) online meeting. The meeting focused on reviewing the proposed SWRP prioritization methodology, project ranking criteria, SWRP goals and objectives, as well as organizing future TAC meeting. At the next meeting, recent projects submitted will be used as examples to show how projects are currently prioritized based on the criteria available.

On 7-10 August, Sue McConnell, Susan Fregien and Rebecca Tabor attended the California Specialty Crops Tour, which visited farms throughout Fresno, Kings, Tulare, Monterey, and Stanislaus counties. Topics covered included, but were not limited to, reduced-risk pest management, nutrient management techniques, the effects of drought conditions on water and soil quality, methyl bromide alternatives for fumigation, and bee colony health.

On 14 August, Zaira Lopez-Narvaez attended the Madera Integrated Regional Water Management (IRWM) meeting. The meeting focused on discussing member updates concerning future events (e.g. workshops, seminars, and meetings) and projects as well as discussing the status of the IRMW Plan Update. The next action step regarding the IRWM Plan Update will be to review the applications received in response to the RFP submitted.

On 15 August, Guy Chetelat met in Redding with consultants and a National Rifle Association representative who are conducting outreach to numerous public and private shooting ranges in the Central Valley Region. Guidance and installation of best management practices to control erosion and metals at the shooting ranges was discussed.

On 16 August, Guy Chetelat attended the North Sacramento Valley Integrated Regional Water Management Technical Advisory Committee meeting in Willows. The meeting covered numerous issues regarding compliance with the Sustainable Groundwater Management Act and also included review of California Department of Water Resources monitoring results of groundwater recovery following the recent drought.

On 17 August and 12 September, Debra Hallis attended the California Licensed Foresters Association Siskiyou and Almanor Breakfast Meetings in Weed and Westwood. A presentation to assist foresters/dischargers with the transition into the new timber General Order R5-2017-0061 was given at both meetings. Industry representatives, US Forest Service Siskiyou, and area foresters were in attendance. Questions were posed by the attendees, who appreciated the opportunity for communication and guidance.

On 24 August, Christine Joab attended the California Cyanobacteria and Harmful Algal Bloom Mitigation Subcommittee teleconference call. The Mitigation Subcommittee is a subcommittee of the CCHAB Network, which is a workgroup of the California Water Quality Monitoring Council.

On August 28, Michelle Wood, Holly Grover, Taranjot Sahota and Christine Joab held a public outreach meeting in Lakeport, Lake County. The goals of the public meeting were to obtain public input on options for potential changes to the Clear Lake Nutrient Control Program, as well as possible environmental impacts that could result from those different options and ways to avoid or mitigate the possible impacts.

On 29 August, Sue McConnell and Doug Patteson provided presentations to the Korean Ministry of the Environment. The presentations covered the ILRP and Confined Animals groundwater protection programs.

On 29 August, Janis Cooke attended a symposium focused on threats, tracking, and management of invasive species in the Delta. The symposium was sponsored by the Delta Science Program and UC Davis Coastal and Marine Sciences Institute.

On 30 August, Christine Joab attended the Association of Clean Water Administrators Monitoring Standards and Assessment Committee teleconference call to discuss monitoring and assessment issues related to cyanobacteria and other harmful bacteria blooms.

On 30 August, Bethany attended the Kaweah River Basin Integrated Regional Water Management (IRWM) Plan joint meeting of the group's governing board and the stakeholder advisory group. The meeting focused on the

Department of Water Resources' (DWR) review and comments on Kaweah's updated IRWM Plan. Based upon DWR's comments, additional revisions to the plan are needed in order to be compliant for the application process of DWR's Prop 1 Implementation funds that will be rewarded early in 2018.

On 30 August, Zaira Lopez-Narvaez attended the Madera County Storm Water Resource Plan (SWRP) Technical Advisory Committee (TAC) meeting at Madera. The meeting focused on reviewing the prioritization results from projects received and discussing the development of new project concepts. The next action step will be for members of the TAC to provide feedback on project development and prioritization by filling out an online survey. The next meeting will be on October 2017 in which results from the survey will be discussed.

On 5 September, Anthony Toto participated in a conference call, with the Kern Environmental Enforcement Network (KEEN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. Anthony updated the group on the status of a pile of oily contaminated dirt in Arvin.

On 5, 12, and 19 September, Christine Joab attended NASA's Applied Remote Sensing Training titled *Introduction to Remote Sensing of Harmful Algal Blooms*. The training is designed for users of remote sensing data and decision-makers whom respond to cyanobacteria and other harmful bacteria blooms (HABs). The training provided information on how to identify NASA's remote sensing data products for the identification and monitoring of HABs, information on coupled remote sensing data and modeling approaches that are used in decision support tools, and using the NASA data tools in monitoring HABs.

On 7 September, Eric Warren and Glen Meeks attended a field tour with the National Resource Conservation Service (NRCS) and members of the Southern San Joaquin Valley MPEP Committee. Discussion focused on the \$2 million NRCS Conservation Innovation Grant awarded to the committee, and how it was being used to implement various projects related to the evaluation of management practices and their effectiveness in protecting water quality. Projects include the *Increasing Implementation of Conservation Practices to Protect Groundwater Quality* (Increasing Implementation) project, the *Harvest and Sequestered Nitrogen Assessment* project, the *Rapid Rate of Travel Evaluation* project, *Barriers to Adoption* project, as well as the development of management support tools for growers. More information about these projects can be found at <http://agmpep.com/>.

On 7 September, Bethany attended the Southern Sierra Regional Water Management Group meeting. The meeting focused on project updates and discussion of updating the group's IRWM Plan to meet the application requirements of DWR's Prop 1 Implementation funding. In addition, new potential projects were introduced for consideration and inclusion on the group's project list.

On 8 September, the Cannabis Program presented at the California Licensed Forester Association Fall Workshop. Staff presented on the overall regulatory framework of the Cannabis Program, including: permitting activities, enforcement actions, some of the common environmental impacts associated with cannabis cultivation sites, and how the program is transitioning to a statewide effort.

On 9 September, Janis Cooke attended a meeting of the San Francisco Bay Nutrient Management Steering Committee. The Committee received budget and project updates and agreed upon a work plan to better understand capabilities of current data collection efforts to detect trends.

On 11 September, Zaira Lopez-Narvaez attended Madera Integrated Regional Water Management (IRWM) meeting. The meeting focused on discussing member updates and the current status of the IRWMP Plan Update. The next action step regarding the IRMP Plan Update will be to review the current application submittals and vote at the October meeting for a candidate to update the IRWM plan.

On 12 September, Anthony Toto attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. Victoria Villa from Air Resources Board gave a presentation regarding Supplemental Environmental Projects, information can be found at <http://calepa.ca.gov/supplemental-environmental-projects/>

On 13 September, Guy Chetelat participated in the Yuba Watershed Protection and Fire Safe Council meeting in Dobbins. Access and erosion problems caused by heavy rain last winter on fire breaks and fire escape routes were discussed. The Yuba Roads Fuel Reduction Project funded by the Timber Fund was also discussed.

On 15 September, Adam Laputz and Sue McConnell attended a field tour of the Butte/Sutter/Yuba Subwatershed of the Sacramento Valley Water Quality Coalition and a Northern California Water Association Board meeting. The tour included presentations regarding the formation of the Yuba County Water Agency and Feather Water District, visits to ILRP monitoring locations and a stop at a prune/walnut orchard. After the tour, Adam Laputz provided a Central Valley Water Board update to the Northern California Water Association Board, regarding the ILRP, CVSALTS and the methyl mercury TMDL.

On 19 September, Jennifer Fuller, Lauren Smitherman, and Patrick Morris attended the Delta Tributaries Mercury Council meeting. Topics at the meeting included presentations on mercury isotopic analysis to distinguish mercury sources and a study about mine drainage water tracing and in situ treatment in an abandoned Coast Range mine.

On 19 September Alex MacDonald provided nation-wide training via the internet for the Integrated DNAPL Source Site Strategy Team of the Interstate Technical Regulatory Council (ITRC). Alex was one of four instructors for the 2.25-hour training on the ITRC document Use and Measurement of Mass Flux and Mass Discharge (2010). This was the twelfth training session on the document. The training is provided free of charge and approximately 195 people world-wide attended the training.

On 20 September, Christine Joab attended the Association of Clean Water Agencies Monitoring Standards and Assessment Committee teleconference call to hear a presentation by US EPA on the recently published white paper "*Algal Indicators in Streams: A Review of their Application in Water Quality Management of Nutrient Pollution*".

**PERSONNEL AND ADMINISTRATION
STAFFING UPDATE**

July 1, 2017 through September 30, 2017

Promotion:

Leave of Absence:

John Moody – Water Resource Control Engineer

Retirement:

Wendy Wyels – Environmental Program Manager I

Scott Moore – Engineering Geologist

Lauria Molitoris – Staff Services Analyst

Jan Alfson – Engineering Geologist

Authorized Positions: 261.7

Vacant Positions: 24

Separations	New Hires
Emily Cushman – Engineering Geologist Genevieve Sparks – Engineering Geologist Shane Edmunds – Environmental Scientist Doug Barber – Water Resource Control Engineer	Mike Grill – Environmental Scientist Malarmagal Perinpanayagam – WRCE Jorge Beltran – Water Resource Control Engineer Thomas Key – Engineering Geologist Jonathan Meurer – Engineering Geologist Brian Hitz – Engineering Geologist Walter Plachta – Engineering Geologist Valerie Rasmussen – Water Resource Control Engineer Nathan Cullen – Environmental Scientist

Temporary Help Positions

Separations	New Hires
Sumera Kandhro – Scientific Aid Karen Gilligan – Scientific Aid Paige FitzGibbon – Scientific Aid Clayton Prue – Eng/Arch Student Michael Sekigahama – Scientific Aid Alyssa Anderson – Scientific Aid	Alyssa Anderson – Scientific Aid Eric Zubiaga – Scientific Aid Charles Cardenas – Scientific Aid Jordan Hensley – Scientific Aid Salvador Torres – Eng/Arch Student

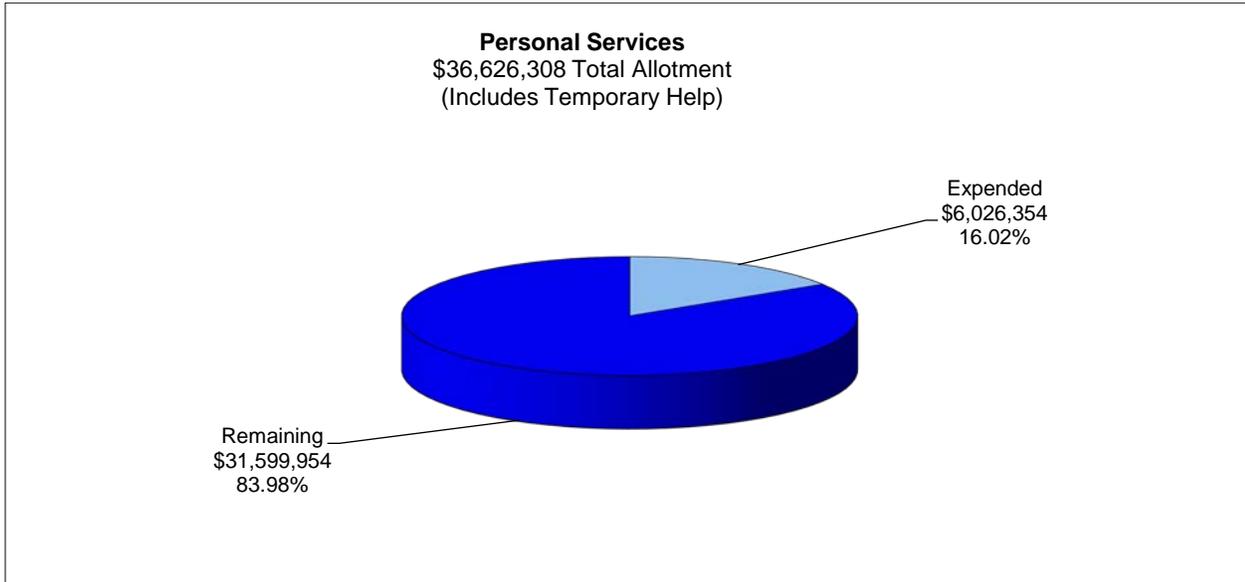
TRAINING UPDATE
July 1, 2017 through September 30, 2017

Class Title	Number of Attendees
Defensive Drivers Training	17
Field Safety Training	12
State Supervisory Training Certificate Program	2
ESRI User Conference	4
Basic TMDL Development, Adoption and Approval	3
Changing Role of Manager	2
Highly Effective Professional Writing	1
Wading Safety Training	14
PACe	1
Creating a Work Culture of Excellence	10
Cybersecurity Awareness	3
ASBOG Exam Review Course	1
Contaminant Biodegradation in Conjunction with PlumeStop	1
Tick Prevention	16
Editing for Managers	5
Water Management in Nursery/Greenhouse Production	2
Water Quality Standard and Water Quality Control Plans	28
New Approach in Remediation of Contaminated Sediments	1
2017 Specialty Crops Tour	2
40-Hour HAZWOPER	1
CHEM 101 Chemistry Refresher for Environmental Professionals	16
Principles of Storm Water Best Management Practice Performance	22
Benthic CyanoHAB Field Training	1
When the Heat is On: Persuasive Speaking on Environmental Risk/Controversies	1
Writing for Multilingual	1
Ecological Strategies to Improve Water Quality and Manage Storm Water	1
Lab Safety Training	75
Introduction to Aquatic Toxicity Testing	16
Geomorphology	1
Safety Orientation	2
Agrochemical Transport and Fate in Soil, Surface Water, and Groundwater	31
Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management	1
Administrative Procedures for Waterboard Supervisors, Managers and CEAs	30
EEO Training	10
Health and Safety Manager Training	9
Human Resource Training for Supervisors & Seniors	34
Coaching and Mentoring - Supervisors Only	9
Electronic Writing	9
Water Issues in California Forest Management	4
Basic Inspector Training	2
Monitored Natural Attenuation of Contaminants in Soil and Groundwater	12
Meeting and Facilitation Skills for Waterboard Staff (Level 1-2)	5
Remediation of Principles and Technologies for Soil and Groundwater	16
Leadership for Government Executives (Cohort 27)	1
Introduction to Aquatic Toxicity Testing	1
Groundwater Pollution & Hydrology	6
Mastering Grammar for Power Prose	1
Trips, Slips and Falls Webinar	1
Forest Insect and Disease Recognition and Management Training	1
Water Quality Monitoring Design	2
Maintaining a Respectful Work Environment	10

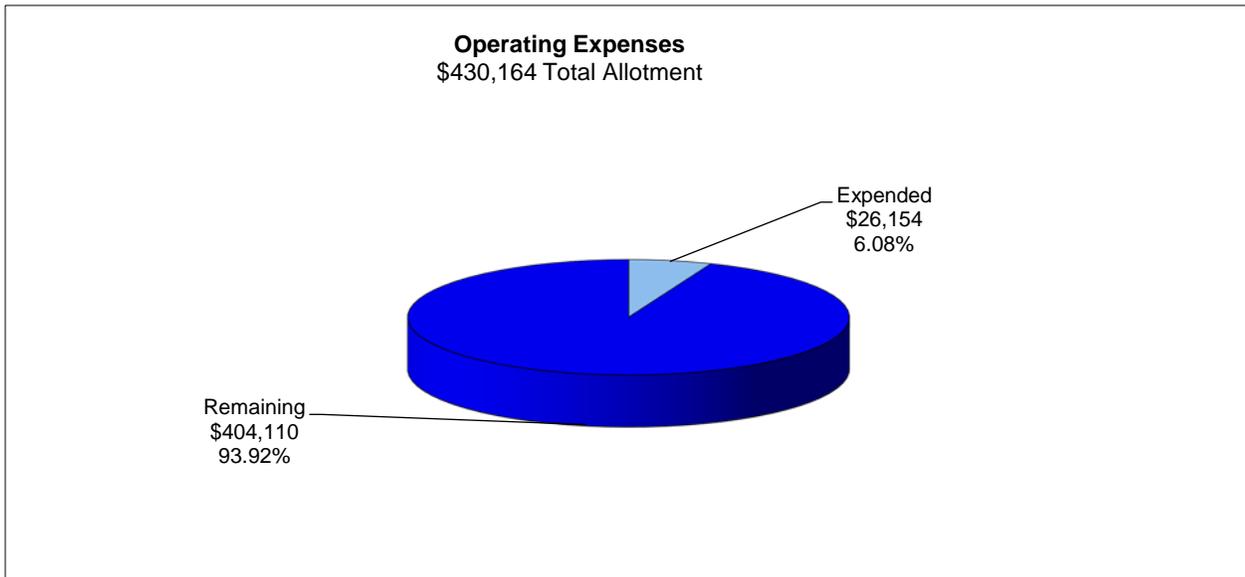
FISCAL UPDATE

Personal Services:

The information below represents the budget for the 2017-18 Fiscal Year. Our Personal Services budget supports 261.7 PYs. The Regional Board has received 10 new permanent positions for the Cannabis Cultivation Program and 3 new limited term positions for the Oil Fields Program.

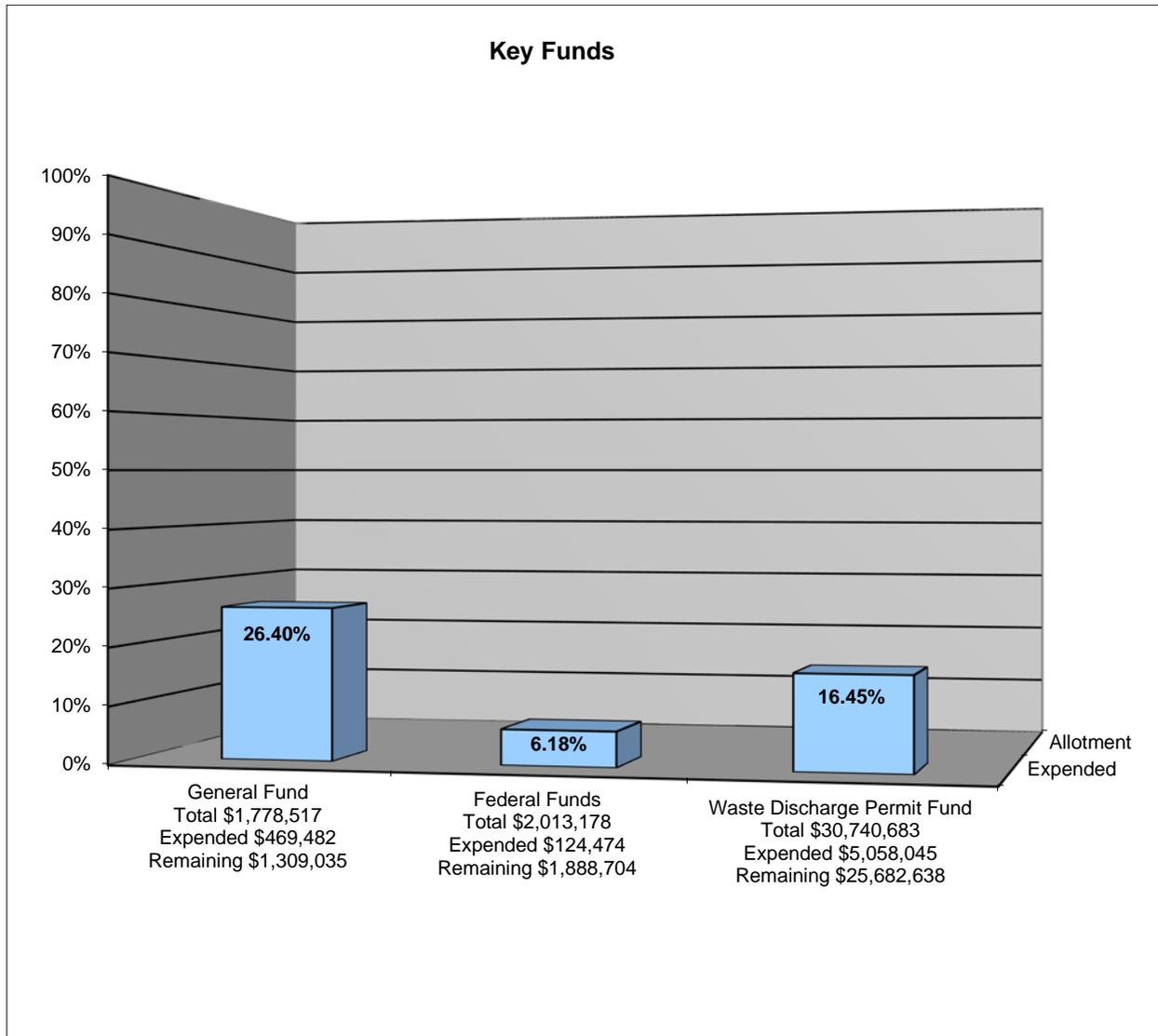


Operating Expenses:



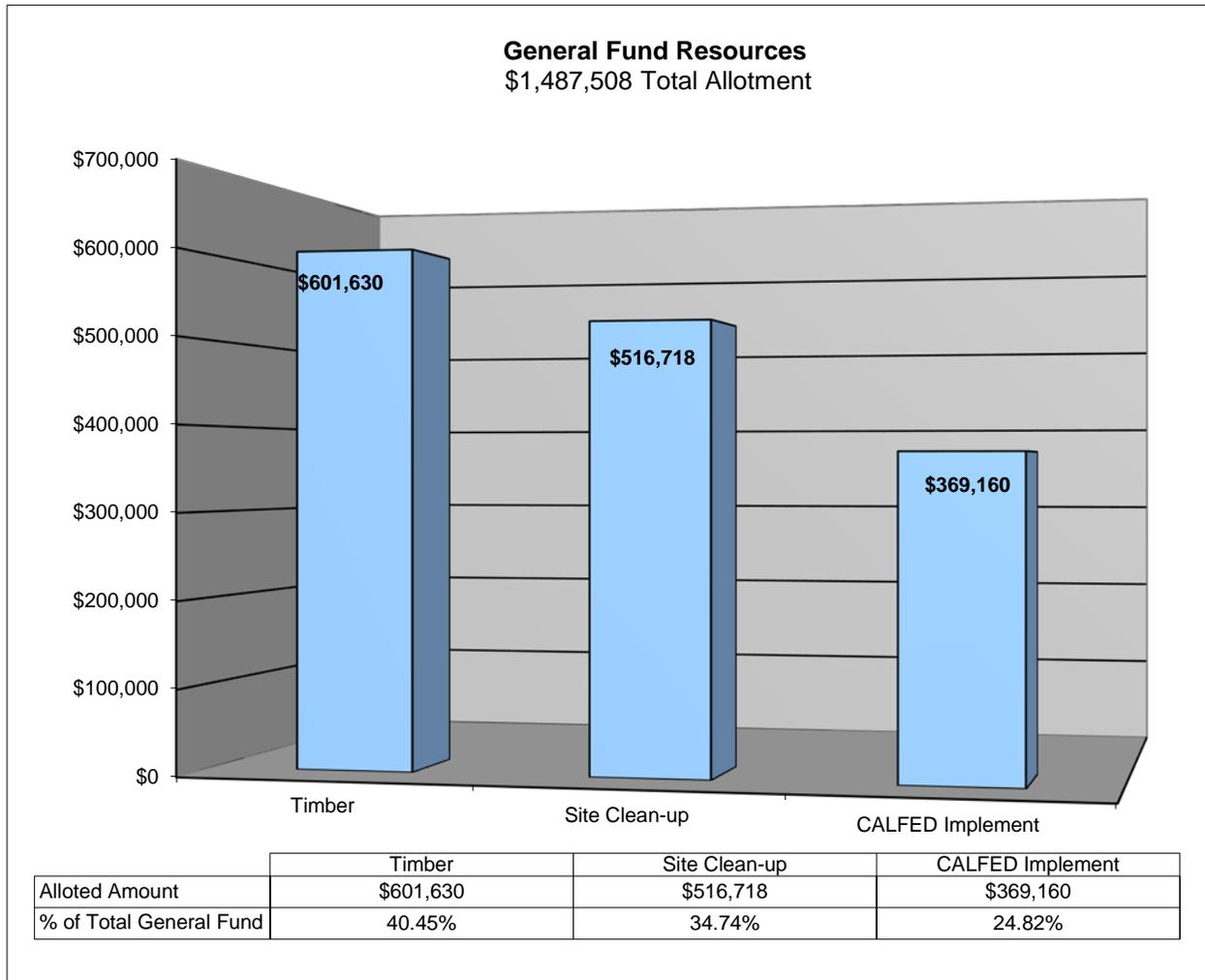
Key Funds:

Key funds are provided through General, Federal (Lawrence Livermore, Leaking Underground Storage Tanks, Non-Point Source, and NPDES), and Waste Discharge Permit fund sources.



General Fund Resources:

The Legislature and the Governor have directed our General Fund monies to specific programs. We have very little discretion in shifting these resources from one program to another.



CONTRACTS

OPERATIONAL SUPPORT SERVICES

CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
16-029-150	Courtney Aviation	Airplane inspection services - Rancho Office	04/18/17	03/31/19	\$ 40,000
15-077-150 Am. 1	Basic Laboratory	Lab analysis -- Redding Office	01/31/16	01/31/19	\$ 110,000
16-018-150	Monterey Bay Analytical	Lab analysis -- Rancho Office	07/20/16	06/30/18	\$ 160,000
15-011-150 Am. 1	Moore Twining	Lab analysis -- Fresno Office	01/31/16	01/31/19	\$ 130,000
17-150-001	Class Act Alliance	Professional sign language interpretation	07/01/17	06/30/18	\$ 1,160
TBD	California Reporting	Off-site court reporting	TBD	06/30/19	\$ 4,999
15-072-150 - Am.1	California Reporting	Court reporter services in Rancho Cordova	07/01/15	06/30/19	\$ 36,000
WATER QUALITY STUDY/PLANNING					
14-043-150-1	Department of Water Resources	Water quality trends	11/01/14	10/31/17	\$ 150,207
15-035-150, Am. 1	Regents of UC Davis	Large scale analysis of annual report data	08/14/15	03/31/18	\$ 150,000
15-047-150	San Jose State Foundation	Support for Statewide Mercury Control Program	01/06/16	03/31/18	\$ 200,000
15-084-150	USGS	Sampling validation	04/01/16	03/31/18	\$ 19,968
16-048-150	UC Santa Cruz	Evaluation of temperature criteria to recommend methodology for deriving temperature criteria.	03/13/17	03/31/19	\$ 396,250
16-074-150	Lawrence Berkeley National Lab	Produce testing	02/27/17	06/30/18	\$ 250,000
16-074-150, Am. 1	Lawrence Berkeley National Lab	Plant, soil and water testing	TBD	6/30/19	\$183,511
17-150-022	DWR	Operation and maintenance in-stream water monitoring stations (North and South Fork Battle Creek)	TBD	06/30/20	\$ 180,000
17-022-150	Department of Water Resources	Ongoing operation and maintenance - SWAMP	TBD	06/30/20	\$ 180,000
TBD	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP)	TBD	06/30/20	\$ 154,191

CONTRACTS

OPERATIONAL SUPPORT SERVICES

CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
TBD	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads and cycling and characterize ecosystem response under current and future scenarios.	TBD	3/31/20	\$400,000
TBD	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams	TBD	6/30/20	\$154,055
TBD	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams	TBD	06/30/20	\$ 135,500

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 2017 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Olam Tomato (Revised WDRs)
- Pacific Coast Producers (Revised WDRs)
- City of Newman (Revised WDRs)
- Sun Pacific Shippers (New WDRs)
- Riverdale WWTF (Revised WDRs)
- Primex Pistachios (New WDRs)

NPDES PERMITTING

- Mountain House WWTP Renewal
- Mount Shasta WWTP Renewal
- Donner Summit WWTP Permit Amendment
- Limited Threat General Order Amendment
- Clear Creek WTP Rescission
- City of Tracy WWTP Renewal
- Sterling Caviar Permit Amendment

LOCAL AREA MANAGEMENT PROGRAM APPROVALS

- Yuba County
- Kings County
- Tuolumne County

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Recology Ostrom Road Landfill, Yuba County (Revised WDRs)
- Buena Vista Landfill (Revised WDRs)
- Auburn Landfill, Placer County (Revised WDRs)
- Woodlake Landfill, Tulare County (Revised WDRs)

FEBRUARY 2018 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Copper Cover WWTF (Revised WDRs)
- Delicato Family Vineyards (Amended WDRs)
- Synagro Clay Station (Revised WDRs)
- Corcoran WWTF (Revised WDRs)
- Treehouse Almonds (Revised WDRs)
- Visalia WWTF (Revised WDRs)
- Fresno WWTF (Revised WDRs)
- Former Spreckels Mendota Facility (New WDRs)

NPDES PERMITTING

- El Dorado Hills WWTP Rescission
- Kiefer Landfill GWETS Rescission
- Meridian Beartrack Co, RMK Mine Renewal

LOCAL AREA MANAGEMENT PROGRAM APPROVALS

- Tulare County

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Southeast Regional Landfill (Revised WDRs)

CONFINED ANIMAL FACILITIES PROGRAM

- Revision of the Poultry General Order (Revised WDRs)

APRIL 2018 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- City of Lathrop CTF (Revised WDRs)
- Lerdo Sheriffs WWTF (Revised WDRs)
- Liberty Packing (Revised WDRs)
- Ingomar Packing (Revised WDRs)
- Stratford WWTF (Revised WDRs)

NPDES PERMITTING

- CCWD Copper Cove WWTP Renewal
- City of Colfax WWTF Renewal
- Cutler-Orosi WWTF Renewal
- City of Red Bluff WWRP Renewal
- Yuba City WWTF Renewal

CONFINED ANIMAL FACILITIES PROGRAM

- Revision of the Dairy General Order (Revised WDRs)

PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISPOSAL TO LAND

- Lake County Environmental Health Division (LAMP)
- Sierra County Environmental Health Services (LAMP)
- Yuba County Environmental Health Services (LAMP)
- Barrel Ten Winery (Revised WDRs)
- Bully Hill Rising Star Mines (New WDRs)
- CA Dept. of Corrections, Mule Creek State Prison (Revised WDRs)
- Calaveras County Water District, Copper Cove WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lone (Revised WDRs)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Lemoore WWTF (Revised WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)
- City of Patterson WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- City of Tuolumne WWTF (Revised WDRs)

- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Ironhouse Sanitation District (Revised WDRs)
- Liberty Packing Tomato Processing (Revised WDRs)
- Lions Raisins Selma Plant (Revised WDRs)
- Leprino Foods Lemoore (Revised WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- Morningstar Packing Company (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Olson Meats (Revised WDRs)
- Sacramento Rendering (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Tomatek and City of Firebaugh (Revised WDRs)
- Tasteful Selections (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)
- Yocha De He Tribe (Revised WDRs)

NPDES PERMITTING

- City of Atwater, Regional WWTF Rescission
- SPI Anderson Rescission
- City of Redding, Stillwater WWTF Renewal
- Malaga WWTF Rescission
- Portola WWTP Renewal
- City of Visalia WWTF Rescission
- Sierra Conservation Center WTP Rescission
- Jackson WWTP Renewal
- Davis WWTP Renewal
- Kinder Morgan Fox Rd GWTS Renewal
- City of Brentwood WWTP Renewal
- CalMat Sand and Gravel Plant Renewal
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Delleker WWTP Renewal
- Dunsmuir WWTP Renewal

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Union Mine Landfill, El Dorado County (Revised WDRs)
- Winters Landfill, Yolo County (Revised WDRs)
- Eastlake Landfill, Lake County (Revised WDRs)
- Butts Canyon Road Geothermal Power Plant Facility (New WDRs)
- Highway 59 Landfill (Revised WDRs)
- Midway Landfill (Revised WDRs)
- City of Lemoore, Leprino Foods, Surface Impoundment – New WDRs

SIGNIFICANT POLICIES, PLANS AND PERMITS TABLE

See next Page

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-14	Central Valley Diazinon and Chlorpyrifos Basin Plan Amendment	2017-08-28 Amendment addressing chlorpyrifos and diazinon in hundreds of valley floor rivers, streams and creeks adopted by Regional Board on 28 March 2014. Approved by the State Water Board on 16 June 2015. Approved by OAL on 8 March 2017. Approved by USEPA on 16 August 2017.	Regional	R5
A-15	Central Valley Pyrethroids Basin Plan Amendment	2017-09-19 The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017. The Amendment still needs State Water Board, OAL and USEPA approval before becoming fully effective.	Regional	R5
A-15	Basin Plan Amendment for a region-wide evaluation process for the Municipal and Domestic Supply (MUN) beneficial use in agriculturally dominated surface water bodies	2017-09-19 Staff report released 23 January 2017. Comment period through 17 March 2017. Board hearing was held February 2017 and the BPA was adopted on 11 August 2017.	Regional	R5
A-15	Central Valley Diuron Basin Plan Amendment	2017-09-19 A review of the most current water quality information indicates the Irrigated Lands Regulatory Program is effectively addressing all diuron impairments. Therefore staff is preparing documentation for de-listing or listing the impairments as being addressed by an existing regulatory program. The 2014 Integrated Report included documentation for listing several diuron impairments as being addressed by an existing regulatory program and not needing TMDLs (category 4b). Additional de-listings and/or category 4b demonstrations are being prepared for the 2018 listing cycle.	Regional	R5
A-16	Establish New Water Quality Objectives for Salinity and Boron in the Lower San Joaquin River - Amendment to the Sacramento River and San Joaquin River Basin Plan.	2017-09-20 A Regional Board workshop was held on 17 August 2016 and Board Hearing in April 2017. The Central Valley Water Board adopted the proposed amendment on 8/9 June 2017.	Regional	R5
A-16	General Order for Poultry Facilities	2017-07-07 Order No. R5-2016-0087, Adopted on 6 December 2016. A General Order update is scheduled to be presented in front of the Board in August 2017.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
*A-16	Phase I update of the Bay-Delta Plan:- San Joaquin River flows and southern Delta salinity.	2016-08-03 The Draft Substitute Environmental Document (SED) was released on December 31, 2012 for public comment. Hearing to receive comments on the SED was held on March 20-21, 2013, and comments were received by March 29, 2013. Revised Draft SED to be recirculated for public comment in summer of 2016. Draft plan amendment to be brought to the Board for consideration in early 2017.	Statewide	SB
A-16	Big Creeks Projects - Clean Water Act, Section 401, Water Quality Certification	2016-10-25 The State Water Board is developing a water quality certification and associated California Environmental Quality Act (CEQA) document for six hydroelectric projects that are owned and operated by Southern California Edison Company in Fresno and Madera counties: Big Creek Nos. 2A, 8, and Eastwood; Big Creek No. 3; Mammoth Pool; Vermillion Valley; Portal; and Big Creeks Nos. 1 and 2. The water quality certification will become part of the Federal Energy Regulatory Commission licenses for the six projects. The draft certification and draft CEQA document are expected to be released for public review in the Fourth Quarter 2016.	Statewide	SB
A-17	Surface Water Augmentation with Recycled Water Regulations	2017-04-24 The Division of Drinking Water is currently finalizing the regulation package regarding the use of recycled water to augment surface water reservoirs used for drinking water supplies. As required by Water Code sections 13562 and 13565, an Expert Panel was assembled to review the criteria and to ultimately make a finding that the criteria are protective of public health. The Expert Panel reviewed the initial draft regulation, which was then submitted for completion of the peer review process required via H&SC section 57004. The Expert Panel reviewed the peer review comments, subsequent revisions to the draft regulations, and made a finding that the criteria are protective of public health.	Statewide	SB
A-17	Revised Total Coliform Rule	2017-04-24 The Federal Revised Total Coliform Rule became effective on April 1, 2016. Division of Drinking Water staff are in the process of drafting state regulations that are at least as stringent as federal regulations but include California-specific requirements. Staff anticipate releasing draft regulations in the spring of 2017 during public workshops, with a public review period later in 2017 and a proposed Board Adoption date in mid 2018.	Statewide	SB
A-17	Bacteria Standards for Ocean and Inland Surface Waters	2017-09-11 The State Water Board is developing proposed statewide bacteria water quality objectives and a proposed control program to protect human health in waters designated for water contact recreation (REC-1) from the effects of bacteria. The implementation elements also includes a general water quality standards variance policy. Staff released the draft documents for public comment on June 30, 2017. A Staff Workshop was held on July 10, 2017 and Public Hearing was held on August 1, 2017. Thirty-three comment letters were received. Staff is presently responding to the comment letters. State Board Web site: http://www.waterboards.ca.gov/bacterialobjectives/	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Statewide Aggregate General Order	2017-02-15 DWQ is preparing a statewide general order for aggregate processing facilities that discharge to land.	Statewide	SB
*A-17	Phase II update of the Bay-Delta Plan: Comprehensive Review	2016-07-13 State Water Board staff is in the process of a phased review and update of the 2006 Water Quality Control Plan for the Bay-Delta (2006 Bay-Delta Plan). The second phase of the review focuses on the following issues: (1) Delta outflow objectives, (2) export/inflow objectives, (3) Delta Cross Channel Gate closure objectives, (4) Suisun Marsh objectives; (5) potential new reverse flow objectives for Old and Middle Rivers; (6) potential new floodplain habitat flow objectives; (7) potential changes to the monitoring and special studies program, and (8) other potential changes to the program of implementation. Staff is preparing a Scientific Basis Report that will provide the underlying scientific support for proposed flow and water quality objectives. The Report will consider recommendations provided in the Delta Science Program's Workshops Panel Summary Reports on Delta Outflows and Related Stressors (May 2014) and Interior Delta Flows and Related Stressors (July 2014). The working draft Scientific Basis Report is expected to be released for public review in late spring/early summer 2016. Staff is also developing a Substitute Environmental Document that will provide an evaluation of the potential environmental impacts of the proposed changes to the Bay-Delta Plan. This document is expected to be released for public review in 2017.	Statewide	SB
A-17	Unified Program Underground Storage Tank Surcharge Increase	2017-08-29 Underground Storage Tank (UST) Leak Prevention Program, as part of the CalEPA Unified Program, is funded by a surcharge applied to each operating UST. Surcharge funding is authorized by California Health and Safety Code. Revenue from the surcharge is intended to cover operating costs at the State Water Resources Control Board to oversee and implement the program, however the current amount fails to do so. CalEPA has completed the rulemaking process, and the Office of Administrative Law has approved the regulations which increase the UST surcharge which becomes effective August 2017. A Budget Change Proposal for increased spending authority is under development, along with an additional surcharge increase.	Statewide	SB
A-17	Industrial General Storm Water Permit Amendment for TMDL Implementation	2017-09-19 State Water Board staff is developing an Industrial General Permit Amendment to incorporate proposed TMDL implementation language into the statewide permit. The proposed permit amendment is being developed in collaboration with the four Regional Water Boards that have adopted TMDLs applicable to industrial storm water discharges as a pollutant source to impaired water bodies (San Francisco Bay, Los Angeles, Santa Ana, and San Diego Regional Water Boards). The public comment periods for the four Regional Water Board's draft TMDL implementation language have ended. State Water Board staff reviewed all comments received during the Regional Water Boards' public comment periods in the development of the proposed TMDL implementation language. Staff is also identifying the applicable TMDL watersheds for the public noticing to the regulated community. State Water Board staff anticipates release of the proposed TMDL implementation language for public comment in late 2017. A State Water Board public hearing for the proposed permit amendment is anticipated in 2018.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Mercury TMDL and Implementation Plan (Statewide Reservoirs)	2017-09-19 Staff from Regions 2 and 5 and State Water Board are developing a TMDL and implementation plan to address fish mercury(Hg) impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis (source analysis, linkage, targets, allocations, and implementation plan options), and regulatory provisions for the implementation plan. The scientific peer review version of the staff report is posted on the project website.	Statewide	R5
A-17	Water Quality Control Plans Amendments for Trash Implementation	2017-06-29 By June 2, 2017, the Water Quality Control Plans required the State and Regional Water Boards to issue trash implementation requirements to municipal storm water permittees. On June 1st the State Water Board issued Water Code section 13383 Order, and most Regional Water Boards issued Water Code section 13267 or 13383 Orders, requiring permittees to report their selected method of compliance and to submit an implementation plan in accordance with the Trash Water Quality Control Plan Amendments. The State Water Board's 13383 Orders and guidance documents may be viewed at https://www.waterboards.ca.gov/water_issues/programs/stormwater/trash_implementation.shtml	Statewide	SB
A-17	Petition Order for Central Valley Regional Board's Eastern San Joaquin Agricultural Order	2017-06-01 On February 8, 2016, the State Water Board released a proposed order, SWRCB/OCC File A-2239(a)-(c), in response to petitions for review of the Central Valley Regional Water Quality Control Board's Eastern San Joaquin Agricultural Order. On May 4, 2016, a Board workshop was held at the Cal/EPA Building in Sacramento, followed by an additional Board workshop in Fresno, CA on May 17, 2016. The deadline for written public comments was June 1, 2016. Staff workshops were held in Sacramento at CalEPA on October 19, 2016, and November 18, 2016 to provide an opportunity for petition staff to ask detailed questions in response to comments received.	Statewide	SB
*A-17	Maximum Contaminant Level (MCL) for 1,2,3-Trichloropropane (1,2,3-TCP)	2017-04-24 Division of Drinking Water staff completed the regulatory documents needed to proceed to public comment, and as of April 21, 2017 have managed and finished the public comment period, including a public hearing on April 19. Staff are currently in the process of reviewing and responding to the public comments in a final document prior to bringing the final regulation package to the Board for adoption. Staff anticipate a Board Adoption date in the spring/summer of 2017, after which the adopted regulations will be sent to OAL for final review and approval. The MCL is anticipated to be effective in the summer or fall of 2017.	Statewide	SB
A-17	Supplemental Environmental Projects (SEP)	2017-08-29 Assembly Bill 1071 requires us to update SEP policy. MCC meeting in March. Workshop held on 8/16/17 and public hearing on 9/20/17. Close of public comment on 9/25/17. Adoption hearing scheduled for 11/9/17.	Statewide	SB
A-17	Discharges from Construction and Maintenance of Natural Gas Facilities	2017-09-22 State Water Board staff has worked with stakeholders (including gas companies and Native American Tribal representatives) to develop a draft mitigated negative declaration, and a proposed Statewide General Order to regulate discharges from construction, hydrostatic testing, operation, and maintenance of natural gas facilities. The proposed Statewide General Order will provide regulatory coverage for discharges to surface water and land, and will allow the use of recycled water as hydrostatic testing source water. The draft mitigated negative declaration and proposed General Order was released for public comments on August 27, 2017, with the mitigated negative declaration provided to the State Clearinghouse for distribution. State Water Board conducted a public hearing on October 3, 2017 to hear stakeholders' comments, prior to the end of the public comment period on October 10, 2017. The State Water Board is scheduled to consider adoption of these items on December 5, 2017.		

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	General WDRs for Discharges of Waste Associated with Cannabis Cultivation Activities	2017-07-06 DWQ, DWR, OE, and the Regional Water Boards are preparing statewide WDRs for discharges of waste associated with cannabis cultivation. The WDRs are being prepared in conjunction with DWR to address water rights issues and the CDFA (issuing cannabis cultivation licenses).	Statewide	SB
A-17	Procedures for Discharges of Dredged or Fill Materials to Waters of the State (Proposed for Inclusion in the Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries)	2017-09-22 State Water Board staff is developing proposed Procedures for Discharges of Dredged or Fill Materials to Waters of the State (Procedures). The draft Procedures were released for a second round of public comments on July 21, 2017, and the Board held a hearing on September 6, 2017. Two public workshops were also held on August 4th in Sacramento and on August 10th in San Diego. The public comment period closed on September 18, 2016, with in excess of 6,000 timely comments received. Staff is now reviewing comments and considering proposed responses and revisions to the Procedures. Adoption is tentatively for scheduled December 2017.	Statewide	SB
A-17	Approval of the CWA Section 303(d) List portion of the 2014 and 2016 California Integrated Report	2017-08-22 The 2018 California Integrated Report will consist of a complete assessment of data and information for the North Coast, Lahontan, and Colorado River regions. The other six regional water boards will have the opportunity to include high priority listings and delistings off-cycle. The data solicitation period ended on May 3, 2017. State and Regional Water Board staff will be assessing the data with a tentative State Water Board approval scheduled for May of 2019.	Statewide	SB
A-17	Natural Gas Company Discharges from Hydrostatic Testing Of Pipelines and Related Activities	2017-06-05 State Water Board staff is working with stakeholders to develop a Statewide General Order to regulate discharges from construction, hydrostatic testing, operation, and maintenance of natural gas facilities. The proposed Statewide General Order will provide regulatory coverage for discharges to surface water and land.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
*A-17	Small Municipal Separate Storm Sewer System (MS4) Permit Amendment, Attachment G	2017-09-19 State Water Board staff developed a proposed amendment for the Small MS4 Statewide General Permit, Attachment G (titled Region-specific Total Maximum Daily Loads (TMDL) Implementation Requirements). The proposed amendment includes: (1) new and revised implementation requirements based on corresponding TMDL waste load allocations, and (2) final compliance dates for the TMDL waste load allocations. The proposed TMDL Amendments were released to the Public on June 5, 2017, for a 45-day review and comment period. In response to commenters' letters requesting additional time, the State Water Board Chair approved additional time and the comments were due to the Clerk of the State Water Board by August 21, 2017. Staff is reviewing the comment letters and developing the responses to the comments and staff report. These documents will be available to the public prior to the Board Hearing to consider adoption of the TMDL Amendments on December 19, 2017.	Statewide	SB
A-18	Sediment Quality Objectives (SQOs) for Enclosed Bays and Estuaries: Phase II*	2017-09-22 Water Board staff is developing a methodology to assess sediment quality in relation to the narrative human health SQO that protects human consumers from contaminants that bioaccumulate from the sediment into fish tissue. Several groups and committees, including the SQO Advisory Committee, the Agency Coordination Committee, and the Harbor Technical Work Group, are collaborating on studies that will assist in the development, testing, and implementation of Phase II SQOs. The case study and test drive was completed in August 2017 and release of draft documents is anticipated for October 2017. A public hearing and board adoption meeting are anticipated for December 2017 and March 2018 respectively.	Statewide	SB
A-18	Permanent (Regular) Regulations for Point Of Use/Point of Entry Treatment Devices	2017-04-24 The State Water Board will be adopting permanent regulations governing the use of point-of-use and point-of-entry treatment devices by a public water system (PWS), in lieu of centralized treatment. Existing law requires the State Water Board to first adopt emergency regulations, followed by standard regulations, to establish criteria for applicable PWS that choose to provide treatment for drinking water through the use of POU or POE treatment devices. Emergency regulations were adopted by the Board on March 15, 2016 and became effective on April 1, 2016. Permanent regulations have to be effective by January 1, 2018 and Division of Drinking Water staff are in the process of drafting the permanent regulations.	Statewide	SB
A-18	Biostimulatory & Biological integrity Project	2017-09-11 The State Water Resources Control Board (State Water Board) is proposing to adopt a statewide water quality objective for biostimulatory substances along with a program of implementation as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California. This project will also include a water quality control policy to establish and implement biological condition assessment methods, scoring tools, and targets aimed at protecting the biological integrity in wadeable streams. A series of webinars and a stakeholder advisory group meeting have been held over the last few months as new science related to the project is released from the Southern California Coastal Watershed Research Program.	Statewide	SB
A-18	Statewide General Waste Discharge Requirements Order for Wineries	2017-06-23 State Water Board staff has prepared a concept paper for developing a statewide general order for wineries. Staff is collaborating with stakeholders to prepare a draft requirements matrix. Staff continues to hold meetings with wine industry representatives and additional outreach meetings will be scheduled.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-18	Revisions to General Order for Poultry Facilities	2017-09-20 Order No. R5-2016-0087 was adopted on 6 December 2016. A General Order update was presented to the Regional Board in August 2017. Revisions to the General Order for Poultry Facilities are anticipated to be presented to the Regional Board for consideration in February 2018.	Regional	R5
A-18	Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan	2017-06-28 State Water Resources Board staff are preparing provisions for toxicity, which if adopted by the Board will be included in the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays and Estuaries of California. If adopted, the proposed Provisions would establish numeric acute and chronic objectives for aquatic toxicity; establish effluent limits for non-storm water NPDES dischargers; incorporate the United States Environmental Protection Agency's (U.S. EPA's) Test of Significant Toxicity (TST) statistical approach for data analysis; and establish monitoring requirements for wastewater discharges to inland surface waters, enclosed bays, and estuaries in California. Staff held outreach meetings in April 2017 to receive feedback from stakeholders and interested parties on the proposed Provisions. Public release of the draft staff report and proposed amendment is anticipated for November 2017 with a staff workshop in December 2017 and a board hearing in January 2018. The proposed amendment is anticipated to be presented to the Board for consideration in May 2018.	Statewide	SB
A-18	Water Quality Objectives for Ammonia	2017-09-19 Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May.	Regional	R5
A-18	Nonpoint Source (NPS) Implementation and Enforcement Policy Amendments	2017-09-22 The NPS Implementation and Enforcement Policy (NPS Policy) is being updated as directed by Resolution 2012-0004 to reflect the current funding mechanisms for State Water Board and Regional Water Board regulation of nonpoint source wastewater discharges.	Statewide	SB
A-18	Statewide Urban Pesticides Reduction	2017-09-22 The State Water Board is developing a statewide multi-agency Strategy to Minimize Urban Pesticides that will be proposed as amendments to both the Inland Surface Waters, Enclosed Bays, and Estuaries Plan, and to the Ocean Plan. A multi-stakeholder project team (shifted into an advisory committee in April 2017) provided information and materials for development of the following amendment components (1) an inter-agency coordination framework, (2) a regional monitoring framework, and (3) suggested permit language for MS4 permittees. Staff anticipates public release of the proposed amendments in Early 2018.	Statewide	SB
A-18	Amendment to the Recycled Water Policy	2017-07-06 The State Water Board adopted a resolution December 6, 2016 directing staff to amend the Recycled Water Policy and re-convene the Science Advisory Panel for Constituents of Emerging Concern. While the resolution outlined a preliminary list of topics to be updated or added to the policy, the resolution directs staff to work with stakeholders to develop an amendment to the Recycled Water Policy and release a draft for public comment by March 2018. State Water Board staff is also developing a project charter and timeline for the next update of the Recycled Water Policy. State Water Board staff conducted initial targeted stakeholder listening sessions in the beginning of March 2017 and is planning to conduct additional stakeholder outreach this summer and continue outreach throughout the amendment process.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-18	Revised UST Regulations	2017-08-29 State Water Resources Control Board staff is updating the underground storage tank (UST) regulations contained in California Code of Regulations, title 23 (UST regulations) to be at least as stringent as the revised 2015 Federal UST regulations contained in 40 Code of Federal Regulations, part 280 (Federal UST regulations). Until the UST regulations are updated to be at least as stringent as the Federal UST regulations, UST owners and operators must meet both the UST regulations and the Federal UST regulations. On January 24, 2017 a focus workgroup, composed of various stakeholders, was held to review language drafted to reconcile UST regulations with Federal UST regulations. Staff held two public workshops with additional stakeholders on March 13, 2017 and March 28, 2017. The required documents to submit the proposed text and Initial Statement of reasons to the Office of Administrative Law for public noticing and an official 45 day written public comment period are currently being prepared. Staff anticipates the public noticing and the first official 45 day written public comment period to occur in October of 2017. State Water Board staff submitted a draft of the proposed regulations to U.S. EPA Region 9 and requested a review from the U.S. EPA and U.S. EPA Region 9 to evaluate if the proposed language is at least as stringent as, or provides equivalency to, the Federal UST Regulations. Finally, State Water Board staff conducted a trial with UST inspection and testing companies of the proposed forms documenting required UST inspections and testing. State Water Board staff considered and, as appropriate, incorporated into the proposed regulations the comments received from the workgroup, workshops, UST inspection and testing companies, U.S. EPA, and U.S. EPA Region 9.	Statewide	SB
A-18	Environmental Laboratory Accreditation Regulations	2017-04-24 Division of Drinking Water staff will draft new regulations governing the accreditation of laboratories regulated by the Environmental Laboratory Accreditation Program (ELAP). The draft regulations will be clearly written and ensure standards for laboratory compliance is auditable and enforceable. The draft regulations are in development and staff anticipate holding staff workshops on the draft regulations Summer 2017, initiate the formal rulemaking process late 2017 and bring the proposed draft regulations to the State Board early 2018 for adoption.	Statewide	SB
C	State Water Board Water Quality Enforcement Policy Amendments	2017-04-12 State Water approved amendmended Enforcement Policy at 4/4/2017 meeting. Administrative record is being prepared for the Office of Administrative Law. The Enforcement Policy will become effective after OAL approval.	Statewide	SB
C	Onsite Wastewater Treatment Systems (OWTS) Policy Implementation	2017-06-05 The Local Agency Management Plan (LAMP) Guidance document was transmitted to the Regional Water Boards on June 4, 2015. All of the Regional Water Boards have amended their Basin Plans to implement the OWTS Policy. The State Water Board approved the amendments for Regions 1 through 9. State and Regional Water Board staff have been meeting with local agencies to facilitate LAMP development. On June 24, 2016, State Water Board staff held an informational forum with the Regional Boards to discuss policy implementation, LAMP submittals and reviews, challenges & successes, and statewide program coordination. To date, 21 LAMPs have been approved by Regional Boards. State Water Board staff have begun the OWTS Policy conditional waiver update process. (The conditional waiver expires on May 13, 2018.)	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Harmful Algal Bloom Response	2017-06-30 State Water Board staff are working with a multi-entity workgroup consisting of the Water Boards, California Department of Public Health, Office of Environmental Health Hazard Assessment, United States Environmental Protection Agency, California Fish and Wildlife, the Department of Water Resources, tribes, water managers, and other interested parties to collaboratively work toward solutions in protecting the public, pets, livestock, and wildlife from the effects of harmful algal blooms (HABs). The California Cyanobacteria Harmful Algal Bloom Network meets quarterly in January, April, July, and October.		
A	SB 83, Section 45 - Produced Water Pond Report	2017-08-29 The State Water Board posted on its website a status report on the regulation of oil field produced water ponds within each region. Link to report: http://www.waterboards.ca.gov/water_issues/programs/groundwater/sb4/index.shtml . Produced water is water extracted during oil production. The report included a tally of produced water ponds statewide by region, the number of permitted and unpermitted ponds, enforcement actions taken, and the status of permitting the unpermitted sites. The report will be updated every six months.	Statewide	SB
A	CV-SALTS Developing a Salinity and Nitrate Management Plan for all basins in the Central Valley Basin Plan Amendment for the Sacramento River and San Joaquin River Basin Plan, Tulare Lake Basin Plan and the Delta Water Quality Control Plan	2017-09-19 Salt and Nitrate Management Plan posted a www.cvsalinity.org at the end of 2016 and formally submitted to the Central Valley Water Board on 12 January 2017. Board accepted receipt of SNMP on 9 March 2017 and directed staff to begin Basin Plan Amendment. Staff are currently developing basin plan amendment language with stakeholder input.	Regional	R5
A	Revision of General Order for Existing Dairies	2017-09-20 Revision of Revised General Order R5-2013-0122 to include requirements for composting consistent with the statewide composting General Order WQ 2015-0121-DWQ and requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements. Staff is drafting revisions and anticipates Regional Board consideration of the revised General Order in mid-2018.	Regional	R5
A	Approval of the CWA Section 303(d) List portion of the 2018 California Integrated Report	2017-06-21 The 2018 California Integrated Report will consist of a complete assessment of data and information for the North Coast, Lahontan, and Colorado River regions. The other six regional water boards will have the opportunity to include high priority listings and delistings off-cycle. The data solicitation period ended on May 3, 2017. State and Regional Water Board staff will be assessing the data with a tentative State Water Board approval scheduled for May of 2019.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Implement Lower San Joaquin River Salt/Boron TMDL	2017-09-19 TMDL requires USBR and agricultural dischargers to operate under WDRs with monthly salt load allocations OR the development of MAA with USBR to mitigate salt loading to river and operation under a Central Valley Water Board approved real-time salinity management program (RTMP) for agricultural dischargers. Both updated MAA and a phased RTMP approved during 4 December 2014 Central Valley Water Board meeting (Resolutions R5-2014-0150 and R5-2014-0151, respectively). Salt load allocations also incorporated into appropriate Ag Coalition WDRs with option to participate in Board approved RTMP. USBR submitted annual reports. The RTMP stakeholders formed a steering committee in October 2015. USBR FY17/18 Annual Workplan was accepted by the Central Valley Water Board in Sept. 2017.	Regional	R5
A	New winery waste guidelines	2017-09-20 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated. New state-wide general order being developed with consideration of these recommendations as well as others through the outreach program.	Regional	R5
A	Development of water quality criteria for the herbicides oxyfluorfen, prometryn, simazine and trifluralin and the insecticide fipronil. Recommended aquatic life criteria are being developed UC Davis under contract with RB5.	2017-09-19 Draft UC Davis criteria documents for the four herbicides were released for public comment (including comments on potential peer review topics) in June 2016. The Draft fipronil criteria document was released for public comment (including comments on potential peer review topics) in October 2016. Peer reviews were completed in November 2016 and February 2017. Final reports were released in July 2017. for more information please see: http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/criteria_method/	Regional	R5
A	USFS MOU for BAER activities	2016-05-20 Staff has engaged the USFS in drafting an MOU that will outline the process by which the Regional Boards may choose to participate in USFS Burned Area Emergency Response (BAER) teams. Temporarily on hold due to vacancies at the Regional USFS office.	Regional	R5
A	Development of permit for Federal Non-Point Source activities on Forest Lands	2017-09-25 R5 staff is working with the USFS and the BLM to develop a permit to cover NPS activities with the potential to affect water quality. The R5 MS4 permit is being used as a model and an EIR will be developed to address CEQA. Additionally, our region is collaborating on this project with R6 and are currently working on a joint public participation plan. Project information can be found here: http://www.waterboards.ca.gov/lahtontan/water_issues/programs/nps/federal_lands/	Regional	R5
A	Delta Regional Monitoring Program-RMP	2017-09-19 The Delta RMP work plan and budget for FY17/18 includes monitoring for mercury in water and fish and an initial assessment of nutrient spatial variability across the Delta. The Steering Committee has not yet approved a work plan for pesticides and toxicity monitoring.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Cadmium Objective and Hardness Implementation Policy	2017-06-28 Staff are working to update the cadmium objectives to insure that the objectives are protective of threatened and endangered species in accordance with the Endangered Species Act. Cadmium is a hardness dependent metal, so the project is linked with a Hardness Implementation Policy to provide guidance to Regional Board staff in determining hardness for setting effluent limits. The project is currently on hold pending available staff resources.	Statewide	SB
A	Statewide Storm Water Construction General Permit Reissuance	2017-09-19 State Water Board staff is developing the draft permit language for the reissuance of the Statewide Storm Water Construction General Permit (also referred to as the CGP). The proposed CGP reissuance will include implementation of Total Maximum Daily Loads and revisions to update the CGP requirements per information collected during the term of the existing permit. Information on the development of the proposed permit reissuance, including stakeholder outreach information, is posted on the State Water Board's Construction Storm Water Program website at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml . The proposed public comment period for the draft permit is May 2018.	Statewide	SB
A	Suction Dredge Mining Activity	2017-09-22 Senate Bill 637 amended the California Water Code and the California Fish and Game Code to address the existing moratorium on suction dredge mining. As amended, the Water Code requires the State Water Board to gather stakeholder input to assist in its determination regarding how to regulate suction dredge mining activities. State Water Board staff conducted five public outreach workshops throughout the State in January and February 2017. Staff is evaluating the information gathered during the workshops to determine the appropriate proposed permitting action for the State Water Board to consider for regulation of suction dredge mining activities.	Statewide	SB
A	Once-Through Cooling Policy - Diablo Canyon Closure	2017-09-19 In December 2016, Pacific Gas and Electric Company provided information to the State Water Board regarding the OTC-Policy interim mitigation fee requirements for Diablo Canyon Nuclear Power Plant. Staff evaluated the information, and released a draft determination for public comment on Sept 5, 2017. The comment period will close on Sept. 28, 2017 at noon.	Statewide	SB
A	Once-Through Cooling [OTC] Policy- Implementation, interim mitigation payments	2017-09-19 OTC-Policy requires owners or operators of existing power plants to implement measures to mitigate interim impingement and entrainment impacts resulting from their cooling water intake structures. State Water Board staff prepared draft determinations with interim mitigation payment calculations for the 2015-2016 interim mitigation period for the following plants: Alamitos Generating Station, Harbor Generating Station, Haynes Generating Station, Huntington Beach Generating Station, Mandalay Generating Station, Ormond Generating Station, Redondo Beach Generating Station, and Scattergood Generating Station. The draft determinations were posted for a twenty-day public comment period. Currently, staff is working on the response to comments.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Implement Mercury TMDL/Control Program in Cache Creek Watershed - Sacramento River and San Joaquin River Basin Plan	2017-09-19 Mining wastes at six inactive mercury (Hg) mines in the upper Cache Creek watershed were remediated in summer 2016 to prevent the continued erosion of mercury sediment into Sulphur Creek, a tributary to Cache Creek.	Regional	R5
P	Water Effects Ratios	2016-07-25 The project will establish criteria for developing site specific objectives for metals based on the water effect ratios for a specific water body. Staff will prepare a proposed Water Effects Ratio Policy at a future date.	Statewide	SB
P	Chlorine Amendment	2017-02-28 The draft Total Residual Chlorine and Chlorine-Produced Oxidants Policy of California is being converted into an amendment to the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California.	Statewide	SB
P	Antidegradation Policy	2017-07-10 The State Water Board issued a draft scoping document and held follow-up focused stakeholder meetings in June and July 2015. Comments from these meetings are summarized and posted on the program website. State Water Board staff is not actively working on a statewide policy for implementation of the Antidegradation Policy for discharges to groundwater. The draft Eastern San Joaquin River Watershed Agricultural Order addresses some of the larger issues the stakeholders identified during staff's outreach efforts. Staff will consider what additional guidance or regulatory action is necessary after the State Water Board issues a final order in the Eastern San Joaquin matter.	Statewide	SB
P	Modify the Beneficial Uses for Freshwater Aquatic Habitat and Remove Spawning for West Squaw Creek - Amendment to the Sacramento River and San Joaquin River Basin Plan	2017-09-19 Use Attainability Analysis was conducted to demonstrate the current beneficial uses assigned to West Squaw Creek, a stream heavily impacted by acid mine drainage, are not achievable. Specifically, the stream cannot support fish and other pH or metal sensitive aquatic species and spawning of selected fish species defined in the Basin Plan. A Staff Report including the proposed amendments and CEQA functional equivalent document was presented to the Regional Board on 9 July 2004. The Regional Board adopted Resolution R5-2004-0090 which included the UAA, Staff Report, Functional Equivalent Document and proposed amendments. BPA not accepted by State Board staff. Staff gathering additional information to respond to State Board and USEPA staff comments. Expected completion date 2018.	Regional	R5
P	New Manual of Good Practice for Land Application of Food Processing/Rinse Water	2017-09-20 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
P	New Manual of Good Practice for Land Application of Food Processing/Rinse Water	2017-07-11 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated.	Regional	R5

Status Code Key:
White = Active effort (A)
Light Green = Targeted for completion in 2016 (A-16)
Lavender = Targeted for completion in 2017 (A-17)
Pink = Targeted for completion in 2018 (A-18)
Gray = Suspended or No statewide effort at this time or Pending (P)
Note: * indicates Board Priority

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills – Summary Report
 Count of Spills for June 2017 through July 2017

Count of Spills Month	5F				5R				5S				Grand Total
	Category 1	Category 2	Category 3	5F Total	Category 1	Category 2	Category 3	5R Total	Category 1	Category 2	Category 3	5S Total	
June 2017	2	1	1	4	1	0	0	1	5	0	71	76	81
July 2017	0	1	5	6	0	0	0	0	2	1	62	65	71
Total	2	2	6	10	1	0	0	1	7	1	133	141	152

Spill Cause	Count of Spills	%
Root Intrusion	68	44.7%
Debris-General	34	22.4%
Debris-Rags	10	6.6%
Grease Deposition (FOG)	10	6.6%
Other	7	4.6%
Debris from Lateral	5	3.3%
Operator Error	5	3.3%
Vandalism	5	3.3%
Pipe Structural Problem/Failure	4	2.6%
Damage by others not related to CS Const/Maint.	2	1.3%
Debris from Construction	1	0.7%
Pump Station Failure-Controls	1	0.7%
Grand Total	152	100%

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

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

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

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

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - June 2017 through July 2017

Region	Collection System	WDID	Spill ID	Certification Status	Spill Type	Spill Location Name	County	Did Spill Reach Surface Waters? (Y/N)	Total Spill Volume (Gallons)	Spill Volume that Reached Surface Waters (Gallons)	Start Date	Spill Cause
5F	SA-2 Bass Lake CS	555011319	835680	Certified	Category 1	Bass Lake WWTP Headworks	Madera	Yes	45,000	20,000	6/4/2017	Debris-Rags
5S	Sacramento Area Sewer District CS	555010912	836396	Certified	Category 1		189301	Yes	5,733	5,726	6/30/2017	Other (specify below)
5R	Red Bluff CS	555010845	835781	Certified	Category 1	180 south main	Tehama	Yes	1,300	1,300	6/9/2017	Grease Deposition (FOG)
5F	Yosemite Valley CS	555010774	835880	Certified	Category 1	Intersection of Hwy 140 and Hwy 120	Mariposa	Yes	1,200	1,100	6/14/2017	Other (specify below)
5S	Hangtown Creek CS	555010965	837239	Certified	Category 1	580 Conrad St	El Dorado	Yes	875	625	7/17/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	836386	Certified	Category 1		189080	Yes	555	330	6/28/2017	Other (specify below)
5S	Sutter Creek CS	555011061	835774	Certified	Category 1	Cleanout at Rear of 175 Spanish Street on Creek Bank	Amador	Yes	250	250	6/11/2017	Debris-Rags
5S	Sutter Creek CS	555011061	836371	Certified	Category 1	Main Line Segment P329 at the Rear of 145 Spanish Street	Amador	Yes	250	250	6/30/2017	Grease Deposition (FOG)
5S	Sutter Creek CS	555011061	836690	Certified	Category 1	Main Line Segment P329 at the Rear of 145 Spanish Street	Amador	Yes	150	150	7/12/2017	Debris-Rags
5S	SMD No. 1 CS	555011028	836096	Certified	Category 1	3760 Grass Valley Highway, Auburn Map Page AE3-126	Placer	Yes	525	15	6/20/2017	Debris-Rags
5F	Strathmore WWTF CS	555011249	835752	Certified	Category 2	Wastewater Treatment Facility	Tulare	No	100,000	0	6/5/2017	Debris-Rags
5S	Sacramento Area Sewer District CS	555010912	836494	Certified	Category 2		189411	No	2,240	0	7/4/2017	Root Intrusion
5F	Exeter CS	555011226	837442	Certified	Category 2	316 Beverly Plc	Tulare	No	1,000	0	7/21/2017	Pump Station Failure-Controls
5F	Wasco State Prison CS	555010775	838700	Certified	Category 3	wasco state prison	Kern	No	950	0	7/21/2017	Debris-Rags
5S	Tracy CS	555011066	836392	Certified	Category 3	Byron Road and Von Sosteen	San Joaquin	No	850	0	6/22/2017	Grease Deposition (FOG)
5S	Deer Creek CS	555010923	837588	Certified	Category 3	DC-2017-07-08	El Dorado	No	681	0	7/24/2017	Vandalism
5S	Sacramento Area Sewer District CS	555010912	839467	Certified	Category 3		190470	No	337	0	7/16/2017	Pipe Structural Problem/Failure
5F	Huron City CS	555011302	837521	Certified	Category 3	11th Steet/Giffen Avenue	Fresno	No	300	0	7/6/2017	Other (specify below)
5S	Sacramento Area Sewer District CS	555010912	839476	Certified	Category 3		191145	No	269	0	7/25/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	837508	Certified	Category 3		188830	No	166	0	6/26/2017	Debris-General
5S	Patterson CS	555011021	837979	Certified	Category 3	566 Logan Way	Stanislaus	No	150	0	6/13/2017	Grease Deposition (FOG)
5S	Sacramento Area Sewer District CS	555010912	837619	Certified	Category 3		188268	No	150	0	6/16/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	839469	Certified	Category 3		190630	No	114	0	7/19/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	837614	Certified	Category 3		187725	No	113	0	6/10/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	839464	Certified	Category 3		190279	No	107	0	7/10/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	837492	Certified	Category 3		187459	No	103	0	6/7/2017	Debris-General
5S	City Of Folsom CS	555010893	837893	Certified	Category 3	405 Scott St.	Sacramento	No	100	0	7/6/2017	Root Intrusion
5S	Murphys CS	555011007	837359	Certified	Category 3	Intersection of Mitchler rd. and Hwy 4	Calaveras	No	100	0	7/21/2017	Debris-General
5F	Arvin CS	555011218	836019	Certified	Category 3	Shane Ct.	Kern	No	100	0	6/22/2017	Grease Deposition (FOG)
5S	Sacramento Area Sewer District CS	555010912	837487	Certified	Category 3		187293	No	99	0	6/2/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	837494	Certified	Category 3		187528	No	96	0	6/8/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	839468	Certified	Category 3		190612	No	92	0	7/19/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	839435	Certified	Category 3		189405	No	87	0	7/3/2017	Grease deposition (FOG)
5S	South Placer Mud CS	555011054	837393	Certified	Category 3	Mainline T18-054 Kellogg St, Newcastle	Placer	No	79	0	6/28/2017	Root Intrusion
5S	SMD No. 2 CS	555011362	835896	Certified	Category 3	6800 Boulder Rd, Granite Bay, CA	Placer	No	75	0	6/15/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	555010912	839440	Certified	Category 3		189724	No	69	0	7/9/2017	Root intrusion
5F	Wasco State Prison CS	555010775	838416	Certified	Category 3	Wasco State Prison	Kern	No	60	0	7/27/2017	Debris-Rags
5S	Sacramento Area Sewer District CS	555010912	837615	Certified	Category 3		188101	No	59	0	6/15/2017	Root intrusion
5S	Ironhouse Sanitary District CS	555010970	836203	Certified	Category 3	452 Larchwood Place	Contra Costa	No	55	0	6/4/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	555010912	837512	Certified	Category 3		189288	No	55	0	6/30/2017	Damage by others not related to CS Const/Maint.
5S	Grass Valley City CS	555010958	837652	Certified	Category 3	11383 Slate Creek Road	Nevada	No	50	0	7/29/2017	Other (specify below)
5S	West Sacramento CS	555011082	838975	Certified	Category 3	1029 Elliot Street	Yolo	No	50	0	7/11/2017	Debris-General
5S	City of Stockton MUD CS	555011433	837571	Certified	Category 3	2303 E Oak St Stockton Ca.	San Joaquin	No	41	0	7/27/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	555010912	837488	Certified	Category 3		187294	No	41	0	6/4/2017	Root intrusion
5F	Wasco State Prison CS	555010775	838418	Certified	Category 3	Wasco State Prison	Kern	No	40	0	7/27/2017	Debris-Rags
5S	Sacramento Area Sewer District CS	555010912	837491	Certified	Category 3		187436	No	40	0	6/7/2017	Debris-General
5S	City of Stockton MUD CS	555011433	835614	Certified	Category 3	607 S. Sierra Nevada Stockton Ca	San Joaquin	No	36	0	6/1/2017	Debris from Lateral
5S	Sacramento Area Sewer District CS	555010912	837511	Certified	Category 3		189210	No	35	0	6/29/2017	Grease deposition (FOG)
5S	South Placer Mud CS	555011054	836175	Certified	Category 3	8352 Joe Rogers Rd.	Placer	No	34	0	6/5/2017	Grease Deposition (FOG)
5S	Sacramento Area Sewer District CS	555010912	839466	Certified	Category 3		190441	No	25	0	7/18/2017	Pipe Structural Problem/Failure
5S	South Placer Mud CS	555011054	837388	Certified	Category 3	3561 Bankhead Rd, Loomis CA	Placer	No	23	0	6/24/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	555010912	837483	Certified	Category 3		187191	No	22	0	6/4/2017	Root intrusion
5S	Easterly CS	555010938	836018	Certified	Category 3	1260 Balsam way	Solano	No	21	0	6/19/2017	Root Intrusion
5S	City of Woodland CS	555010903	836602	Certified	Category 3	1734 Bella Casa	Yolo	No	20	0	7/9/2017	Root Intrusion
5S	Folsom State Prison CS	555011192	836133	Certified	Category 3	Minimum Camp Showers	Sacramento	No	20	0	6/27/2017	Debris-General
5S	SMD No. 2 CS	555011362	835796	Certified	Category 3	8087 Twin Rocks Rd, Grante Bay, CA, Map Page G17-41	Placer	No	20	0	6/9/2017	Debris-General
5S	South Placer Mud CS	555011054	836173	Certified	Category 3	5465 South Grove St.	Placer	No	20	0	6/21/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	555010912	837625	Certified	Category 3		188923	No	17	0	6/25/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	837479	Certified	Category 3		187120	No	16	0	6/2/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	837618	Certified	Category 3		188213	No	16	0	6/16/2017	Root intrusion
5S	City of Stockton MUD CS	555011433	835780	Certified	Category 3	1421 E. Hazelton Stockton Ca	San Joaquin	No	16	0	6/8/2017	Debris from Lateral
5S	West Sacramento CS	555011082	837312	Certified	Category 3	1039 Park Blvd	Yolo	No	15	0	7/13/2017	Debris-General
5S	West Sacramento CS	555011082	837706	Certified	Category 3	1039 Park Blvd.	Yolo	No	15	0	7/30/2017	Debris from Lateral
5S	Sacramento Area Sewer District CS	555010912	837500	Certified	Category 3		188056	No	15	0	6/15/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	837493	Certified	Category 3		187496	No	14	0	6/7/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	837504	Certified	Category 3		188437	No	14	0	6/20/2017	Debris-General
5S	Sacramento Area Sewer District CS	555010912	839434	Certified	Category 3		189360	No	13	0	7/3/2017	Root intrusion
5S	Sacramento Area Sewer District CS	555010912	839481	Certified	Category 3		191430	No	13	0	7/29/2017	Root intrusion
5S	City of Stockton MUD CS	555011433	837626	Certified	Category 3	5337 Basillca Dr Stockton Ca	San Joaquin	No	13	0	7/28/2017	Grease Deposition (FOG)

Region	Collection System	WDID	Spill ID	Certification Status	Spill Type	Spill Location Name	County	Did Spill Reach Surface Waters? (Y/N)	Total Spill Volume (Gallons)	Spill Volume that Reached Surface Waters (Gallons)	Start Date	Spill Cause
55	Sacramento Area Sewer District CS	55SO10912	839482	Certified	Category 3	191483	Sacramento	No	12	0	7/30/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837501	Certified	Category 3	188214	Sacramento	No	12	0	6/16/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	839438	Certified	Category 3	189559	Sacramento	No	11	0	7/6/2017	Vandalism
55	Davis CS	55SO10921	837369	Certified	Category 3	407 G street	Yolo	No	10	0	7/22/2017	Root Intrusion
55	Sacramento Area Sewer District CS	55SO10912	839462	Certified	Category 3	190201	Sacramento	No	10	0	7/16/2017	Vandalism
55	City Of Ione CS	55SO10894	836092	Certified	Category 3	131 Ashworth Dr. Ione, CA	Amador	No	10	0	6/24/2017	Debris from Construction
55	Sacramento Area Sewer District CS	55SO10912	837482	Certified	Category 3	187188	Sacramento	No	10	0	6/4/2017	Root intrusion
55	City of Stockton MUD CS	55SO11433	836374	Certified	Category 3	245 W. Jackson St Stockton Ca	San Joaquin	No	10	0	6/29/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	839439	Certified	Category 3	189720	Sacramento	No	8	0	7/8/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839478	Certified	Category 3	191392	Sacramento	No	8	0	7/28/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837489	Certified	Category 3	187346	Sacramento	No	8	0	6/6/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837623	Certified	Category 3	188807	Sacramento	No	8	0	6/25/2017	Debris-General
55	City of Stockton MUD CS	55SO11433	835686	Certified	Category 3	1929 Myrtle St Stockton Ca	San Joaquin	No	8	0	6/3/2017	Root Intrusion
55	City of Stockton MUD CS	55SO11433	836009	Certified	Category 3	724 E. Yorkshire Stockton Ca	San Joaquin	No	8	0	6/20/2017	Grease Deposition (FOG)
55	Sacramento Area Sewer District CS	55SO10912	839486	Certified	Category 3	192121	Sacramento	No	7	0	7/31/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837490	Certified	Category 3	187407	Sacramento	No	7	0	6/6/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837496	Certified	Category 3	187720	Sacramento	No	7	0	6/10/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839479	Certified	Category 3	191411	Sacramento	No	6	0	7/28/2017	Other (specify)
55	Sacramento Area Sewer District CS	55SO10912	837480	Certified	Category 3	187126	Sacramento	No	6	0	6/1/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837498	Certified	Category 3	187818	Sacramento	No	6	0	6/12/2017	Root intrusion
55	City Of Antioch CS	55SO10890	837345	Certified	Category 3	405 W. 5th Street, Antioch, CA 94509	Contra Costa	No	5	0	7/20/2017	Root Intrusion
55	City Of Antioch CS	55SO10890	837606	Certified	Category 3	2232 Coolidge Ct, Antioch CA 94509	Contra Costa	No	5	0	7/27/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	839463	Certified	Category 3	190276	Sacramento	No	5	0	7/17/2017	Root intrusion
55	Lathrop CS to Manteca WQCF CS	55SO10897	835785	Certified	Category 3	221 J Street	San Joaquin	No	5	0	6/6/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837484	Certified	Category 3	187193	Sacramento	No	5	0	6/4/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837486	Certified	Category 3	187284	Sacramento	No	5	0	6/5/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837613	Certified	Category 3	187659	Sacramento	No	5	0	6/9/2017	Other (specify)
55	Easterly CS	55SO10938	836071	Certified	Category 3	980 Alamo dr.	Solano	No	5	0	6/23/2017	Debris-Rags
55	City Of Antioch CS	55SO10890	837123	Certified	Category 3	5180 Grass Valley Way, Antioch, CA, 94509	Contra Costa	No	4	0	7/1/2017	Root Intrusion
55	Modesto CS	55SO11001	836570	Certified	Category 3	1029 N. 9th st Modesto CA	Stanislaus	No	4	0	7/3/2017	Debris-Rags
55	Sacramento Area Sewer District CS	55SO10912	839442	Certified	Category 3	189937	Sacramento	No	4	0	7/11/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839443	Certified	Category 3	189980	Sacramento	No	4	0	7/7/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839444	Certified	Category 3	190003	Sacramento	No	4	0	7/12/2017	Vandalism
55	Sacramento Area Sewer District CS	55SO10912	839471	Certified	Category 3	190715	Sacramento	No	4	0	7/21/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839474	Certified	Category 3	190911	Sacramento	No	4	0	7/24/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	839480	Certified	Category 3	191413	Sacramento	No	4	0	7/29/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839485	Certified	Category 3	191548	Sacramento	No	4	0	7/31/2017	Root intrusion
55	City of Stockton MUD CS	55SO11433	837295	Certified	Category 3	2429 Chapel Hill Circle Stockton Ca.	San Joaquin	No	4	0	7/19/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837481	Certified	Category 3	187182	Sacramento	No	4	0	6/3/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837621	Certified	Category 3	188339	Sacramento	No	4	0	6/20/2017	Root intrusion
55	City of Woodland CS	55SO10903	836522	Certified	Category 3	58 Fourth St	Yolo	No	4	0	6/27/2017	Pipe Structural Problem/Failure
55	Sacramento Area Sewer District CS	55SO10912	839436	Certified	Category 3	189407	Sacramento	No	3	0	7/4/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839470	Certified	Category 3	190668	Sacramento	No	3	0	7/21/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839472	Certified	Category 3	190755	Sacramento	No	3	0	7/22/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	839475	Certified	Category 3	190980	Sacramento	No	3	0	7/25/2017	Root intrusion
55	City of Stockton MUD CS	55SO11433	837845	Certified	Category 3	1140 n. Wilson Way Stockton Ca	San Joaquin	No	3	0	7/30/2017	Debris from Lateral
55	Sacramento Area Sewer District CS	55SO10912	837485	Certified	Category 3	187202	Sacramento	No	3	0	6/5/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837502	Certified	Category 3	188225	Sacramento	No	3	0	6/17/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837503	Certified	Category 3	188242	Sacramento	No	3	0	6/19/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837505	Certified	Category 3	188506	Sacramento	No	3	0	6/21/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837506	Certified	Category 3	188602	Sacramento	No	3	0	6/22/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837510	Certified	Category 3	189099	Sacramento	No	3	0	6/29/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837610	Certified	Category 3	187074	Sacramento	No	3	0	6/2/2017	Operator error
55	Sacramento Area Sewer District CS	55SO10912	837611	Certified	Category 3	187243	Sacramento	No	3	0	6/5/2017	Vandalism
55	Sacramento Area Sewer District CS	55SO10912	837612	Certified	Category 3	187500	Sacramento	No	3	0	6/7/2017	Damage by others not related to CS Const/Maint.
55	Sacramento Area Sewer District CS	55SO10912	837620	Certified	Category 3	188284	Sacramento	No	3	0	6/19/2017	Root intrusion
55	City Of Antioch CS	55SO10890	837607	Certified	Category 3	334 Brennan Ct, Antioch CA 94509	Contra Costa	No	2	0	7/27/2017	Root Intrusion
55	Sacramento Area Sewer District CS	55SO10912	839433	Certified	Category 3	189334	Sacramento	No	2	0	7/2/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839437	Certified	Category 3	189441	Sacramento	No	2	0	7/5/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839441	Certified	Category 3	189851	Sacramento	No	2	0	7/10/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839461	Certified	Category 3	190200	Sacramento	No	2	0	7/16/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839465	Certified	Category 3	190408	Sacramento	No	2	0	7/18/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839473	Certified	Category 3	190769	Sacramento	No	2	0	7/23/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	839477	Certified	Category 3	191190	Sacramento	No	2	0	7/27/2017	Pipe Structural Problem/Failure
55	Sacramento Area Sewer District CS	55SO10912	839484	Certified	Category 3	191521	Sacramento	No	2	0	7/31/2017	Root intrusion
55	City of Stockton MUD CS	55SO11433	837343	Certified	Category 3	504 N Wilson Way Stockton Ca.	San Joaquin	No	2	0	7/20/2017	Debris from Lateral
55	Sacramento Area Sewer District CS	55SO10912	837478	Certified	Category 3	187103	Sacramento	No	2	0	6/2/2017	Debris-General
55	Sacramento Area Sewer District CS	55SO10912	837495	Certified	Category 3	187636	Sacramento	No	2	0	6/9/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837497	Certified	Category 3	187722	Sacramento	No	2	0	6/10/2017	Root intrusion
55	Sacramento Area Sewer District CS	55SO10912	837507	Certified	Category 3	188702	Sacramento	No	2	0	6/23/2017	Root intrusion

Region	Collection System	WDID	Spill ID	Certification Status	Spill Type	Spill Location Name	County	Did Spill Reach Surface Waters? (Y/N)	Total Spill Volume (Gallons)	Spill Volume that Reached Surface Waters (Gallons)	Start Date	Spill Cause
5S	Sacramento Area Sewer District CS	5SSO10912	837616	Certified	Category 3		188147 Sacramento	No	2	0	6/16/2017	Operator error
5S	Sacramento Area Sewer District CS	5SSO10912	837617	Certified	Category 3		188192 Sacramento	No	2	0	6/16/2017	Operator error
5S	Sacramento Area Sewer District CS	5SSO10912	837622	Certified	Category 3		188611 Sacramento	No	2	0	6/22/2017	Root intrusion
5F	University Of California, Merced CS	5SSO10773	836507	Certified	Category 3	UC Merced Science and Engineering (SE) 1 Building, room 153	Merced	No	1	0	7/5/2017	Debris-General
5S	Sacramento Area Sewer District CS	5SSO10912	839431	Certified	Category 3		189307 Sacramento	No	1	0	7/1/2017	Root intrusion
5S	Sacramento Area Sewer District CS	5SSO10912	839432	Certified	Category 3		189318 Sacramento	No	1	0	7/1/2017	Root intrusion
5S	Sacramento Area Sewer District CS	5SSO10912	839460	Certified	Category 3		190101 Sacramento	No	1	0	7/1/2017	Operator error
5S	Sacramento Area Sewer District CS	5SSO10912	839483	Certified	Category 3		191498 Sacramento	No	1	0	7/31/2017	Root intrusion
5S	South Placer Mud CS	5SSO11054	839105	Certified	Category 3	5600 Delano Way, Rocklin CA. 95677	Placer	No	1	0	7/18/2017	Root intrusion
5S	City of Woodland CS	5SSO10903	837629	Certified	Category 3	1710 Sixth St	Yolo	No	1	0	7/25/2017	Root intrusion
5S	Sacramento Area Sewer District CS	5SSO10912	837499	Certified	Category 3		187943 Sacramento	No	1	0	6/14/2017	Root intrusion
5S	Sacramento Area Sewer District CS	5SSO10912	837509	Certified	Category 3		188924 Sacramento	No	1	0	6/26/2017	Root intrusion
5S	Sacramento Area Sewer District CS	5SSO10912	837624	Certified	Category 3		188875 Sacramento	No	1	0	6/26/2017	Operator error