

California Regional Water Quality Control Board  
Central Valley Region

Pamela Creedon, Executive Officer



EXECUTIVE OFFICER'S REPORT  
October 13/14, 2016

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## SUCCESS STORIES

### **USDA Grant to support Management Practices Evaluation Program**

On 8 September 2016, the U.S. Department of Agriculture (USDA) announced the recipients of the Conservation Innovation Grants. The Kings River Watershed Coalition Authority was selected to be funded 2 million dollars for a project to increase implementation of conservation practices to protect groundwater quality. This project will be the cornerstone of the Tulare Lake Basin Coalitions' Group Management Practices Evaluation Program. In particular, it will identify protective practices for Central Valley agriculture, adapt the USA's Soil and Water Assessment Tool (SWAT) for Central Valley agriculture; increase adoption of protective practices through intensive producer/advisor outreach and an online decision support tool; assess adoption of protective practices by comparing a 2016 benchmark assessment with practices implemented throughout the project duration; and quantify the reductions in nitrate leaching at the landscape-level using SWAT.

**Placer County Department of Facility Services, Placer County Sewer Maintenance District 1 Wastewater Treatment Plant, Placer County.** Placer County Sewer Maintenance District 1 Wastewater Treatment Plant (SMD1) provided sewerage service for the unincorporated area of North Auburn in Placer County and served a population of approximately 17,000. The tertiary treatment system at SMD1 consisted of the headworks (influent flow meter, comminution, and aerated grit removal), four rectangular primary clarifiers, three rotating biological contactors (RBCs), two trickling filters, four circular clarifiers, six gravity filters with anthracite media, and chlorine disinfection and dechlorination in three chlorine contact chambers. The wastewater treatment plant design average dry weather flow capacity was 2.18 million gallons per day (MGD). Effluent from SMD1 discharged to Rock Creek, tributary to Dry Creek and, further, the Bear River and the Sacramento River.

The Discharger historically had high levels of infiltration and inflow (I/I) during wet weather events. During severe wet weather events, a portion of the influent bypassed comminution and grit removal and was directed through a bar screen to the primary clarifiers. Typically, only two of the four primary clarifiers were used as clarifiers while the other two were used for equalization; however, during wet weather conditions, all four were used for clarification. The trickling filters did not have the capacity to treat all wastewater under wet weather conditions, and a portion of the wastewater bypassed the trickling filters and was directed from the RBCs to the secondary clarifier. Furthermore, flows exceeding the capacity of the gravity filters of 3.5 MGD were routed around the gravity filters and flowed directly to the chlorine contact basins. Thus, the Facility discharged a combination of secondary and tertiary treated wastewater during severe wet weather events.

Beginning in about 2004, the Placer County Department of Facility Services (Discharger) began to pursue regionalization with the City of Lincoln Wastewater Treatment and Reclamation Facility rather than upgrade SMD1 to provide year-round tertiary treatment. With regionalization, the wastewater flow would be piped to the City of Lincoln's regional plant for treatment and disposal, thus eliminating the discharge to Rock Creek.

On 22 September 2010, the Regional Board adopted Waste Discharge Requirements (WDR) Order R5-2010-0092 and Cease and Desist Order (CDO) R5-2010-0093. The Discharger chose to comply with the WDR by tying into the City of Lincoln's regional plant and decommissioning the Facility. On 17 April 2015, the WDR Order was amended (Order R5-2010-0092-01) and Time Schedule Order (TSO) R5-2015-0034 was adopted to require completion of construction by 1 December 2015 and rescind the CDO. Due to failed pipeline connections, the TSO was amended (TSO R5-2015-0034-01) on 11 December 2015, to allow for completion of the project by 1 October 2016. Repairs to the pipeline have been completed and on 23 May 2016 discharge to Rock Creek ceased. All wastewater formerly treated at SMD1 is transferred to and treated by the regional plant in Lincoln. Decommissioning of SMD1 was completed by 1 October 2016. SMD1 no longer discharges nor has the ability to discharge to Rock Creek.

### **Sulphur Creek Mercury Mine Cleanup Project, Colusa County**

In July through early September 2016, Homestake Mining Company of California (Homestake) completed the removal, consolidation and stabilization of mercury mining waste (i.e., waste rock, tailings, stockpiled ore, and shallow mercury-enriched soils) at the Central Mines Group. The Central Mines Group includes the Central, Cherry Hill, Empire, Manzanita, West End, and Wide Awake Mines which are inactive mercury and/or gold mines within the Sulphur Creek watershed. Approximately 30,000 cubic yards of mercury mining waste was placed into a repository to prevent erosion and transport of these mining wastes to waters of the state. The \$2.2 million dollar cleanup project was organized, managed, funded, and completed in its entirety by Homestake. The cleanup project is expected to reduce mercury loading from the Central Mines Group to Sulphur Creek. (JSH)

### **North Star Mine Water Treatment Project, Nevada County**

In June 2016, Newmont USA, Ltd., initiated construction of the North Star Passive Water Treatment Project (the Project) near Grass Valley. The Project is required by Central Valley Water Board Cleanup and Abatement Order R5-2014-0706, which directs Newmont to collect, convey, and treat mine water discharging from the North Star Mine drainage features and the nearby Drew Tunnel. Discharges from the mine drainages contain iron and manganese at concentrations which threaten the beneficial uses of nearby Wolf Creek. Treated water from the Project will be discharged to Wolf Creek in accordance with applicable water quality objectives.

As of 27 August 2016, Newmont has completed grading for the sedimentation ponds, wetland pond, and limestone beds (containment structures) and started construction on the North Star pump station conveyance pipeline. Liner installation consisting of 60-mil high density polyethylene (HDPE) liners for the containment structures is schedule to begin the week of September 26-30. Newmont anticipates completing construction and start-up of the treatment system operations by 31 December 2016. (JSH)

**Record of Decision for 35 Sites at the Former McClellan Air Force Base is Completed, Sacramento County.** In August 2016, the U.S. Environmental Protection Agency and the Department of Toxics Substances Control, representing the State (including the Central Valley Regional Water Quality Control Board), signed the *Final Finding of Suitability to Transfer (FOSET) #2 - No Further Action Sites Record of Decision* (NFA ROD) for 35 sites at the former McClellan Air Force Base. Central Valley Water Board's staff provided approval of the NFA ROD in April 2016. The 35 sites were evaluated for shallow soil and soil gas contamination and the regulatory agencies determined that no further action is needed. The no further action decision for these 35 sites (encompassing approximately 46 acres) means that there will be no further cleanup actions required for these sites and the sites are available for redevelopment and reuse.

**Explanation of Significant Differences for Hexavalent Chromium in Groundwater at the Former McClellan Air Force Base is Completed, Sacramento County.** In August 2016, the Air Force, U.S. Environmental Protection Agency and the Department of Toxic Substances Control, representing the State (including the Central Valley Regional Water Quality Control Board), signed the *Final Explanation of Significant Differences for Hexavalent Chromium in Groundwater* (ESD). The ESD selects a new cleanup level for hexavalent chromium in groundwater at the former McClellan Air Force Base. The ESD adds a site background cleanup level of 14 micrograms per liter (ug/L) for hexavalent chromium to the *Non-Volatile Organic Compound (Non-VOC) Amendment to the Basewide VOC Groundwater Record of Decision* for the former McClellan Air Force Base, which was completed in 2009. In the 2009 Amendment, a cleanup level of 50 ug/L was selected for total chromium (including hexavalent chromium) based on the State drinking water maximum contaminant level (MCL). In 2009, there was not a State or Federal MCL specific to hexavalent chromium; however, California promulgated a MCL of 10 ug/L for hexavalent chromium in 2014. A protectiveness evaluation was conducted to assess the selected remedy in light of the change. Based on the results of the protectiveness evaluation, the Air Force, in consultation with the regulatory agencies, determined that a site background cleanup level specific to hexavalent chromium, of 14 ug/L, needed to be added to the groundwater remedy. Additionally, the ESD also documents that under the revised remedy, treated water may be used for industrial purposes and landscape irrigation at McClellan. (JDT)

## **SITE CLEANUP-SUCCESSFULLY CLOSED-NO FURTHER ACTION REQUIRED**

- **El Monte Triangle – SB 445 Grant.** Site Cleanup Program staff have been working with the City of Sacramento to obtain a grant under the SB445 program to address groundwater contamination in the El Monte Triangle area northeast of downtown Sacramento. Heavy industrial activity since at least 1916 resulted in extensive TCE and PCE contamination in soil and groundwater beneath the area and down gradient. A soil vapor extraction system installed under a previous Cleanup and Abatement Fund grant removed over 4,100 pounds of VOCs from subsurface soil between 2011 and 2015. Because the groundwater TCE plume has polluted multiple municipal wells and there is no viable responsible party, staff worked with the City of Sacramento and their consultant to apply for funding for investigation and remediation of groundwater in the source area. The initial request for \$613,513 to fund preliminary investigation and pilot testing was submitted in August, with work commencing once the grant is approved and the work plan is finalized. Staff will work with SWRCB and the City of Sacramento to oversee these activities, and anticipate applying for additional grant funding for implementation of a full-scale remedy in FY2017-2018
- **Site OW581, Beale AFB, Yuba County,** includes an oil/water separator located adjacent to an aircraft fuel bulk storage tank farm. The Site was investigated and the soil and soil vapor presented no unacceptable risks. Trichloroethylene was detected in groundwater and was administratively transferred to the tank farm site, where TCE in groundwater is being investigated and remediated. The Air Force proposed no further response action planned (NFRAP) for soil and soil vapor, and the Central Valley Water Board and Department of Toxic Substance Control concurred.
- **Ed Staub and Sons Highway 32 Petroleum Spill, MPM 0.015 Highway 32, Lassen National Forest, Tehama County, Case #SLT5R1085.** On 31 May 2013, a tanker trailer carrying gasoline and diesel fuel was traveling eastbound on Highway 32 near milepost 0.015, left the roadway and rolled over in the shoulder on the north side of the highway. The contents of the tanker migrated downhill, across the asphalt highway and down an unlined drainage ditch. Absorbent materials, booms, and pads were applied during the initial emergency response. After off-loading the tanker's contents and comparing inventory records, it was determined that approximately 3,147 gallons of gasoline and 833 gallons of diesel fuel leaked from the tanker to surrounding soil and surface water. On 3 and 4 June 2013, approximately 330 cubic yards of contaminated soil was excavated from the spill area. Soil removal was limited by the steep terrain to the south, Highway 32, and the reach of the excavator. The excavations removed approximately 1,410 pounds of gasoline and 189 pounds of diesel. Soil pollution remains in inaccessible areas located in the immediate vicinity of the spill area and beneath Highway 32. Monitoring has determined that groundwater impacts beneath the spill area are no longer impacting a nearby spring. Concentrations of the residual petroleum compounds in soil and groundwater are expected to continue to decline through bioattenuation. On 4 August 2016, staff conditionally closed the case with the provision that the case can be reopened if Caltrans conducts road work in the area that allows access to impacted soil beneath Highway 32.
- **Western Ag Aviation, Tranquility, Fresno County**  
A no further action determination was issued on 20 July 2016 for Western Ag Aviation, a former crop dusting facility at 6450 S. Colorado Avenue, Tranquility, Fresno County. Rinse water from crop dusting operations was formerly disposed of to a trench. A sump was also noted in the vicinity of the mixing area. Soil samples were collected from the trench and from the sump. No pesticides or petroleum hydrocarbons were detected above environmental screening levels. Containers of left over pesticides and other chemicals were transported off-site to an appropriately permitted facility for disposal. John Minney, a State of California registered engineer, has stated that the site does not pose a threat to human health and safety or groundwater and recommended that the site be granted No Further Action status. Staff concurred. Regional Board staff issued a public notice for closure of the site and no comments were received.

- Blanc Vineyards, 1625 Road 160, Delano, Tulare County**

A no further action determination was issued on 23 August 2016. Blanc Vineyards uses the site as a storage and maintenance yard for an agricultural operation. Diesel and gasoline constituents were released from a broken pipe beneath a fuel dispenser and degraded soil to a depth of approximately 30 feet. Groundwater beneath the site is found at a depth of greater than 200 feet. The lateral and vertical extent of degraded soil was delineated during several assessments. The fuel dispenser was relocated to a paved area adjacent to on-site aboveground storage tanks. Degraded soil was excavated to a depth of 15 feet and replaced with clean fill. Any remaining petroleum hydrocarbons are expected to continue to degrade naturally and do not pose a threat to human health and safety, the environment, or groundwater. The site meets the requirements of the Low-Threat Underground Storage Tank Case Closure Policy for being granted No Further Action Required status. Regional Board staff issued a public notice for closure of the site and no comments were received.
- Rogers Helicopters, Inc., 2403 Bullard Avenue, Clovis, Fresno County**

A no further action determination was issued on 25 August 2016. Rogers Helicopters, Inc., maintained a base for helicopter operations at the site, which has since been moved off-site. Tetrachloroethene was detected on-site in the vicinity of a maintenance building. The lateral and vertical extent of degraded soil and groundwater was delineated during several assessments. A soil vapor extraction system was operated to remove volatile organic constituents from soil. No constituents of concern were detected above State of California maximum contaminant levels during the last two groundwater monitoring events. A registered engineer and a registered geologist for the consultant, ERM, have stated that the negligible amount of volatile organic constituents remaining in soil, soil gas, and groundwater do not pose a threat to human health, the environment, or groundwater and have recommended that the site be granted no further action status. Staff concurred. Regional Board staff issued a public notice for closure of the site and no comments were received.
- Crop Productions Services (CPS) – Bakersfield/Oildale Terminal, Kern County**

A no further action determination was issued on 26 August 2016. The referenced CPS facility was suspected to have been responsible for nitrate detected in the Oildale Mutual Water Company's water supply Well #26, which was located adjacent to the CPS property. Site assessment was conducted on the property and sample results were computer modeled. The model results indicated that given the length of time the facility had operated, the nitrate detected in Well #26 did not appear explainable by the nitrate soil concentrations detected in soil samples collected on the CPS property. No mechanism or conduit was discovered that could explain nitrate migration through the soil column that could reach groundwater (250 feet below ground surface) within the time frame the facility had existed. Further, historical information obtained from various governmental agencies indicated nitrate concentrations in groundwater in the surrounding area have been observed to be problematic and above the drinking water maximum contaminant level (MCL) before CPS purchased the property in 1996. Per a settlement between the Oildale Mutual Water Company and CPS, Well #26 was destroyed on 22 March 2016. Based on the evidence obtained, it appears CPS did not likely contribute to the nitrate problem found in Well #26. In addition, the remaining nitrate concentrations in soil do not pose a significant threat to the beneficial uses of groundwater.
- Sears Store #2298, Sears Auto Center #6460, Merced, Merced County**

A no further action determination was issued on 25 August 2016. The Sears Auto Center #6460 is part of Sears Store #2298 located in the Merced Mall Complex. The facility is used to perform automotive maintenance and repairs. Initial phase I and II environmental site assessments indicated that a total petroleum hydrocarbon product (TPH) release from one of the on-site hydraulic car lifts had occurred. Soil analytical data obtained during the phase II site investigation indicated that the TPH release only migrated approximately five feet below ground surface. Based on the limited migration of contaminants, the limited amount of degraded soil, and the fact that the affected soil area lies beneath a concrete floor in an enclosed structure, staff concludes that the facility poses no significant risk and any remaining petroleum hydrocarbons are expected to continue to degrade naturally and do not pose a threat to human health and safety, the environment, or groundwater. Regional Board staff issued a public notice for closure of the site and no comments were received.

- **Final Site CG041-508 Statement of Basis / Corrective Measures Implementation Work Plan, Beale AFB, Yuba County.** In August 2016, the Site CG041-508 Statement of Basis / Corrective Measures Implementation Work Plan for Beale Air Force Base was finalized by the Air Force and State of California represented by the Central Valley Water Board and Department of Toxic Substances Control. Leaks and spills associated with parts cleaning activities are likely the primary source of tetrachloroethene (PCE) contamination at the Civil Engineering Equipment Yard site. The Statement of Basis presents enhanced reductive dechlorination (ERD), enhanced attenuation (EA) monitoring, and land use controls (LUCs) as the selected corrective measure for groundwater in accordance with the Resource Conservation and Recovery Act (RCRA). Media other than groundwater have been addressed in a separate decision document under Site SS508. Active treatment to address residual PCE contamination in groundwater will be supplemented with EA monitoring. LUCs will prevent exposure to contaminants in groundwater and mitigate associated VOC vapor intrusion risks until concentrations are suitable for unlimited use and unrestricted exposure.
- **Final Site CG517 and CG041-517 Statement of Basis / Corrective Measures Implementation Work Plan, Beale AFB, Yuba County.** In August 2016, the Site CG517 and CG041-517 Statement of Basis / Corrective Measures Implementation Work Plan for Beale Air Force Base was finalized by the Air Force and State of California represented by the Central Valley Water Board and Department of Toxic Substances Control. Site CG517 is located near the Base Medical Clinic where volatile organic compound (VOC) contamination, primarily tetrachloroethene (PCE), is likely the result of spills or dumping of chlorinated solvent onto the ground surface north of Building 5702. The decision document presents No Further Action (NFA) for soil, sediment, and surface water as the selected corrective measure for Site CG517. VOC contamination at Site CG041-517, representing underlying groundwater and associated potential VOC vapor intrusion risks, will be addressed by enhanced reductive dechlorination (ERD), enhanced attenuation (EA) monitoring, and land use controls (LUCs). The selected corrective measures were chosen in accordance with the Resource Conservation and Recovery Act (RCRA). LUCs will prevent exposure to contaminated groundwater and mitigate vapor intrusion risks until VOC concentrations are suitable for unlimited use and unrestricted exposure.

***UNDERGROUND STORAGE TANKS (USTS) – 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**

- **American & Foreign (Auto Repair), 603 Broadway Avenue, Fresno, Fresno County**  
In August 2014 four underground storage tanks (USTs), associated fuel dispensers, and underground fuel delivery piping were removed. Analytical results of a soil sample collected from beneath the former piping detected petroleum hydrocarbons. Fresno County Environmental Health referred the Site to the Central Valley Water Board. A soil investigation was conducted in November 2015 which did not detect any petroleum in soil. Any remaining petroleum hydrocarbons in soil beneath the Site

should degrade naturally and not pose a threat to human health or water quality. The case was closed 7 July 2016.

- **Fresno Area Express, 2223 G Street, Fresno, Fresno County**  
In October 2013 the waste oil drain line associated with a waste oil underground storage tank (UST) was removed and analyses of a soil sample detected concentrations of petroleum hydrocarbons. A soil investigation was conducted in April and December 2015, which determined that petroleum impacted soil was present beneath and around the waste oil drain line. The estimated volume of impact was about 2,700 cubic feet, with approximately 8.5 pounds of petroleum hydrocarbons. Petroleum constituents in soil beneath the Site should degrade naturally, and are not believed to pose a threat to human health or groundwater beneath the Site. The case was closed 20 July 2016.
- **Clingan's Junction Grocery, 35468 East Kings Canyon Road, Squaw Valley, Fresno County**  
Two gasoline underground storage tanks and associated piping were removed in September 1998. Analytical results of soil samples from beneath piping indicated concentrations of petroleum hydrocarbons. One gasoline and one diesel UST were removed between September 1998 and March 2000. Soil borings were drilled in the vicinity of the former USTs and dispensers during December 2001, detected petroleum hydrocarbons. Fresno County Environmental Health Department referred the case to the Central Valley Water Board in August 2004. Additional investigation was conducted which detected soil and groundwater impacts. Soil vapor extraction with air sparging was conducted from May 2014 through August 2015 and removed about 88 pounds (~15 gallons) of petroleum hydrocarbons. The case was closed on 22 July 2016 in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.
- **Outpost Food Store, 509 6<sup>th</sup> Street, Taft, Kern County**  
A gasoline release was discovered during product piping upgrade activities. Investigation was requested by the local agency, but never conducted, and the case was referred to the Central Valley Water Board in June 2007. In November 2014, after continued noncompliance, investigation was required pursuant to California Water Code section 13267 by Technical Reporting Order R5-2014-0832. From site assessment conducted in December 2015 the consultant concluded that less than one pound of petroleum remained in soil to a depth of 10 feet below ground surface. The case was closed on 18 July 2016, in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.
- **Sumner Peck Ranch, 41600 Road 204, Madera County**  
Soil borings drilled in January 2010 in the vicinity of a gasoline underground storage tank (UST) and a diesel above ground storage tank (AGT) indicated concentrations of total petroleum hydrocarbons, and in May 2012 the AGT, the UST, and associated piping were removed. In August 2012 the MCEHD declared an unauthorized release of petroleum hydrocarbons, and in March 2013 the case was referred to the Central Valley Water Board. Additional soil assessment was conducted which determined the extent soil contamination. Groundwater, estimated to be at about 200 feet bgs, was not encountered during the investigation. About 650 cubic yards of impacted soil, were excavated in July and August 2014, and remediated on site. The case was closed on 22 July 2016 in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.

b) **REDDING OFFICE**

- **Antelope Liquors, 445 Antelope Blvd., Red Bluff, Tehama County, Case #520135**  
In 1999, petroleum hydrocarbon contamination was discovered during a fuel system upgrade. Subsequent subsurface investigations indicated that soil samples with the highest concentrations of hydrocarbons were under the tank pit and dispenser locations. Soil from these areas was removed during tank overexcavation (approximately 600 cubic yards of soil). These investigations also determined that impacts to groundwater were localized on-site. Staff closed the case under the Low Threat Closure Policy on 23 August 2016.

- **Jim's Food & Liquor (Former Cheaper No. 152), 15 Antelope Blvd., Red Bluff, Tehama County, Case #520049.** In 1993, soil contamination was noted during removal of two underground storage tanks (USTs). Impacted soil remaining after tank overexcavation contained elevated concentrations of total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylene (BTEX). Elevated concentrations of these constituents were also detected in groundwater beneath the site. Site investigations determined that groundwater and soil gas contamination extended off-site into a residential area. In 2005, a soil vapor extraction (SVE) system was installed to remediate the contamination. In 2014, the system was converted to a dual phase extraction (DPE). In addition to the 350 cubic yards of petroleum-impacted soil excavated at the time of UST removal, an estimated 30,000 pounds of contaminant mass were removed by SVE/DPE remediation between 2005 and 2014. Free product has been removed from soil and groundwater. The remaining TPH-g and BTEX contamination in soil occurs at depth. Remaining concentrations in groundwater are decreasing and stable, and are expected to attenuate within a reasonable period of time. A 2015 soil vapor survey confirmed that the offsite concentrations of volatile organic compounds in shallow soil do not pose a significant risk to nearby residential occupants. Staff closed the case on 16 August 2016.
- **Former Ochs Auto Center, 7981 HWY 99E, Los Molinos, Tehama County, Case # 520086**  
The property operated as a gasoline service station and a motorcycle repair and sales shop from approximately 1959 to 1995. Soil contamination was observed during removal of three single-walled underground storage tanks and associate piping in December 1995. The Tehama County Department of Environmental Health closed the case in April 1996. The case was reopened in 2013 when groundwater contamination was detected during a Phase II site assessment. Subsequent monitoring determined that the groundwater plume was stable, localized on-site, and expected to attenuate. No active remedy was needed. Staff closed the case under the Low Threat Closure Policy on 10 August 2016.

c) **SACRAMENTO OFFICE**

- **Kirkwood Power House, 1547 Kirkwood Meadows Drive, Kirkwood, Alpine County**  
The Site's former UST system was removed in 1999. About 24,000 pounds (3,400 gallons) petroleum hydrocarbons were removed through active remediation. The consultant estimates that 48 pounds (6.7 gallons) of petroleum hydrocarbons remain in groundwater at the Site. A deed restriction has been recorded for areas of the Site where petroleum impacted soil remains in place at levels of that threaten human health from direct contact. The Site meets the criteria for case closure as outlined in the State Water Board's Low Threat Closure Policy and was closed on 18 July 2016.
- **William Harlow Property, 206 Oak Street (AKA 200 Oak Street), Brentwood, Contra Costa County**  
In October 1987, one, 150-gallon waste oil underground storage tank (UST) and four fuel USTs were removed from the Site, and soil and groundwater were found to be impacted by petroleum hydrocarbons.  
A No Further Action Required letter was issued by the Central Valley Water Board on 2 December 1997.  
  
In May 2001, a Phase II site assessment was conducted and the Site was reopened. Injection of hydrogen peroxide and macronutrients resulted in biodegradation of about 900 pounds of petroleum hydrocarbons, and an unknown volume of petroleum hydrocarbons were removed or destroyed by excavation. Residual groundwater pollution remains in the area about 250 feet in length from the former tanks and to the maximum depth explored, 60 feet below ground surface. The consultant estimated that water quality objectives should be reached in the source area by about 2018. The Site meets the general and site-specific criteria for case closure under the Low Threat Closure Policy and was closed on 12 February 2016.
- **Super Center Mart, 701 East Charter Way, Stockton, San Joaquin County**  
In February 1998, two 12,000-gallon unleaded gasoline underground storage tank (UST) and one 1,000-gallon premium unleaded gasoline UST were removed from the Site, and soil and groundwater

were found to be impacted by petroleum. A dual phase extraction (DPE) system operated from 24 January 2011 to 29 January 2014, and removed about 5,587 pounds (894 gallons) of vapor phase gasoline (TPH-G) and about 408 pounds (68 gallons) of dissolved phase TPH-G. Residual groundwater pollution is less than 100 feet in length from the former USTs and was detected to the maximum depth explored of 150 feet below ground surface. The Site meets the general and site-specific criteria for case closure under the Low Threat Closure Policy. The Site was closed on 18 March 2016.

## STAFF RECOGNITION

### SUSTAINED SUPERIOR ACCOMPLISHMENT AWARDS

At the August 18/19, 2016 regular board meeting, Executive Officer Pamela Creedon presented the Sustained Superior Accomplishment team award as follows:

The following persons were being recognized specifically for their efforts in developing and implementing the Cannabis Pilot Project within the Central Valley Region as well as their contributions to the statewide effort:

- Ashley Worth, Environmental Scientist (Redding Office)
- Trey (Roy) Sherrell, Environmental Scientist (Redding Office)
- Griffin Perea Engineering Geologist, (Redding Office)
- Kevin Pfeiffer Engineering Geologist, (Redding Office)
- Yvonne West, Senior Staff Counsel (State Water Resources Control Board)
- Patrick Pulupa, Senior Staff Counsel (State Water Resources Control Board)

In 2014, the Water Boards and the Department of Fish and Wildlife (DFW) in coordination with the Governor's Office, developed a Cannabis Pilot Project. The Project was set up to deploy regulatory measures and focus enforcement efforts on addressing adverse environmental impacts resulting from cannabis cultivation on private lands and State lands of high value in Northern California. In 2014, the Governor's Budget allocated several positions to the Water Boards and DFW to implement the Project. The Central Valley Water Board and North Coast Water Board each received four positions, and the State Board's Office of Enforcement received three positions.

The Project has four objectives: 1) develop a regulatory program; 2) target enforcement in high value watersheds; 3) education and outreach to cultivators about best management practices; and 4) multi-agency coordination at the State and local level. In addition, the project was allocated \$200,000 for the development of a GIS-based cannabis identification and prioritization system.

In addition to the staff listed above, Assistant Executive Officer, Clint Snyder of the Redding office received an Excellence in Service recognition award for his exemplary leadership in developing the Region and Statewide Cannabis Cultivation program.

### SUPERIOR ACCOMPLISHMENT AWARDS

#### **AMY TERRELL AND KRISTI SHELTON (Water Resources Control Engineers in the Sacramento Office)**

Amy Terrell and Kristi Shelton, both Water Resource Control Engineers who work in the Site Cleanup and Underground Storage Tank Sections respectively, are conscientious and diligent workers with a high level of technical competence. Both Amy and Kristi have been assigned many complex and contentious cases and have established favorable working relations with many of the responsible parties. Consequently, they have succeeded in getting cleanup actions initiated, sometimes after years of intransigence. Over the past several months, they have taken on the difficult task of not only maintaining their routine caseload, but also of clearing the Site Cleanup GeoTracker backlog.

Clearing the backlog was a noteworthy effort. It required the review of cases that had been stagnant from as far back as the 1980's. In a very short time, more than 350 cases were reviewed, which represents more than 50% of the backlog work completed in the last 6 years. In addition, more than 350 cases have been closed, identified as a duplicate or otherwise removed from the inactive case backlog, with nearly

200 of those being accomplished last fiscal year. In addition, Amy and Kristi wrote more than 150 case summary memos recommending additional work for cases still in the backlog - just this effort alone provides a path forward plan for nearly half of the unassigned backlog cases. Lastly, they have ensured that all available documents for these stagnant cases have been uploaded to GeoTracker, which provides the public with readily accessible information on the case status. The benefits of this accomplishment to the State of California is to enhance the completeness and accuracy of the GeoTracker database, thereby facilitating public review of potentially contaminated properties and contributing to the due diligence inherent in property transactions. Furthermore, enhancing the completeness and accuracy of the GeoTracker database leads to more efficient investigation of potentially contaminated properties by Regional Water Board staff, environmental consultants and the public.

**Candidate:** Denise Baumann  
**Unit:** Administration  
**Title:** Assistant Governmental Program Analyst  
**Supervisor:** Clay Rodgers, Assistant Executive Officer

Denise is a part of our Administrative team, serving in a lead-capacity, and works in our Fresno office as an Associate Government Program Analyst. Her employment with the Regional Board started in 2013. Immediately upon her employment, Denise began assessing our internal office processes and made recommendations for improvements which have since been implemented. She has been instrumental in reorganizing our systems for processing and filing voluminous amounts of paper that include our personnel, procurement, and building maintenance records. Her suggestions on streamlining the receipt and distribution of mail have made the process more accurate and timely. Her diligence in managing our records storage on site has resulted in hundreds of boxes of files being sent to the State Records Center.

Denise assists in the hiring process for Fresno staff. This work includes tracking the progress of Personnel Actions, and participating in the interview process by scheduling the interviews and serving as a panel member. More recently, Denise has been called upon to coordinate facility needs for our off-site Board meetings and workshops in the Fresno area. She wears many hats serving in this capacity. Work includes researching site locations when needed, initiating contracts to secure the facilities, ensuring that equipment and furniture is set up and ready for the events as well as to coordinate with various staff to provide assistance to ensure that the meetings run smoothly.

In summary, Denise is our "go-to" person in the Fresno office. Regardless of the task she is called to do, she consistently applies a work ethic and level of customer service both to our internal and external customers that is exemplary. She is dependable, reliable and a pleasure to work with. We are pleased to recognize her for her on-going commitment and hard work that makes our work-place a better place to be.

**Candidate:** Dannas Berchtold  
**Unit:** Storm Water Program  
**Title:** Sanitary Engineering Associate (Redding Office)  
**Supervisor:** George Day (Retired)

Dannas Berchtold is a Sanitary Engineering Associate working in the Redding office, and is receiving the Superior Accomplishment Award for her outstanding work in the Region's Storm Water program.

For the past year, in addition to her regular responsibilities, Dannas has served as the staff lead on development of a new Region-wide NPDES general permit for Municipal Separate Storm Sewer Systems (MS4s). The new permit was a priority project for the Storm Water program and involved work over 3 years with a permittees working group, and other stakeholders to develop an approach that balanced permittee flexibility with water quality improvement accountability. Dannas helped organize the stakeholder process and coordinate the many versions of the permit during development. She provided valuable input regarding permit language and the development process. In particular we appreciate her patience and dedicated work during leading up to the Board meeting. Dannas gave an informative Board meeting presentation, which was followed by unanimous approval by the Board.

Dannas has over 16 years of experience working in the Central Valley Water Board's Storm Water Program in both the Rancho Cordova and Redding offices. Dannas is extremely knowledgeable and is respected by the regulated community, the public, and her peers. She is a valuable asset to the Storm Water program and to the Region

**EMPLOYEE RECOGNITION AWARD  
REDDING OFFICE**

**AUGUST 2016**

**Candidate:** Katie Gilman  
**Unit:** Groundwater  
**Title:** Scientific Aid  
**Supervisor:** Kate Burger

Katie Gilman is a Student Assistant (Engineering & Architectural Sciences) working in the Central Valley Water Board's Redding office. Since joining the Central Valley Water Board last May, Katie has become an integral part of the Groundwater Unit. She has worked on a variety of items such as: drafting Notices of Applicability for the Compost General Order; contouring potentiometric data; compiling a tracking spreadsheet for land disposal facilities; and managing surface water data for Iron Mountain Mine. She has been instrumental on the Old Red Bluff Burn Dump project by helping to write the sampling work plan, assisting with field work and sample management, managing data, and conducting statistical analysis of the data. Her assignments have not always been pleasant! Sampling activities at the Old Red Bluff Burn Dump required wading through waist-deep star thistle under scorching temperatures.

In addition, Katie has spearheaded the unit's daunting task to purge and archive a large number of case files. As part of this effort, she took the initiative to improve the barcoding process documentation which will facilitate retrieval of archived files. She has also been tremendously helpful in her work with Cannabis Regulatory Enforcement Unit by processing incoming NOIs and drafting corresponding enrollment letters for that General Order.

Katie has a positive attitude and is willing to take on whatever task is given to her. She is highly organized, efficient, and finishes assignments with lightning speed. Staff know that they can rely on Katie to produce a quality work product with limited direction. Her contributions have been particularly significant because the Groundwater Unit has been severely short staffed. Katie is a true pleasure to work with and we very much appreciate her help.

**SACRAMENTO OFFICE  
AUGUST 2016**

**Candidate:** Mike Fischer  
**Unit:** Storm Water  
**Title:** Water Resources Control Engineer  
**Supervisor:** Steve Rosenbaum

Mike is a Water Resource Control Engineer for the Regional Board and is a valuable member of our Compliance and Enforcement Group. Over the last several months, Mike has been asked to support a number of enforcement cases, in addition to his normal workload. His technical assistance has included work on a variety of topics including storm water runoff volume estimates, water balances, BOD loading calculations, and data interpretation. His timely contributions have greatly improved the effectiveness of the Compliance and Enforcement group. Mike has successfully kept his own workload on schedule while helping with these other projects. Mike is receiving the Employee Recognition Award for his technical expertise, helpfulness to his co-workers, and his high-level of productivity.

**Candidate:** Anne Littlejohn  
**Unit:** Planning  
**Title:** Senior ES  
**Supervisor:** Jeanne Chilcott

Anne Littlejohn is a Senior Environmental Scientist heading up the Planning/CV-SALTS/SWAMP Unit in the Rancho Cordova office. Anne is being recognized for her outstanding ability to work with diverse stakeholder groups on complicated and contentious projects which are leading to consensus solutions. Anne's exceptional competence in this area was most recently demonstrated when she coordinated two presentations for the CV-SALTS workshop held on August 17<sup>th</sup>, at which stakeholders presented much of the justification for two proposed Basin Plan amendments: adopting salt and boron objectives for the lower San Joaquin River; and adopting a streamlined and transparent process for evaluating appropriate designation and level of protection for municipal and domestic supply beneficial uses in ag dominated water bodies. The amendments will serve as case studies for new policy considerations and guidance. Anne's appreciation and respect for her staff and the stakeholder process have resulted in these projects going from a "good idea" to amendments that will be considered by the Board over the next six-month period. One stakeholder who was in attendance at the workshop noted that he never imagined stakeholders would ever sit together and bring a consensus recommendation for the lower San Joaquin River to the Board. Anne's leadership and coordination in this process is making a positive difference and for that she is being recognized.

**FRESNO OFFICE  
AUGUST 2016**

**Candidate:** Kristen Gomes  
**Unit:** Land Disposal Unit  
**Title:** Water Resource Control Engineer  
**Supervisor:** Dan Carlson

Kristen Gomes is Water Resource Control Engineer in the Fresno office. Kristen's primary work is in the land disposal program implementing the requirements of Title 27. Kristen brings to the regional board a lot of experience working in environmental consulting, and because she is a registered professional engineer, reviews many of the engineering reports for the unit. She also serves as a mentor to the younger staff of the office. Kristen readily accepts assigned projects and completes them in a timely and thorough manner. The unit has had a vacancy, and Kristen has filled the gap in keeping projects that would have been assigned to the vacant position, moving projects forward without significant delays. She handles some of the most critical sites like Chemical Waste Management calmly and professionally. Recently Kristen duties have included assisting in implementing the new composting general order and review of a mine cleanup project on Forest Service land. Her contributions are of great value to the Fresno office and are greatly appreciated.

## PERFORMANCE MEASURES

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 2016-2017 performance targets [http://www.waterboards.ca.gov/about\\_us/docs/resource\\_alignment\\_report.pdf](http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf).

Below is the Region 5 Performance Measurement Summary for the 2016-17 fiscal year. This report was produced with data through 19% of the current fiscal year.

<b>Region 5 Performance Measurement Summary from 1 July 2016 to 9 September 2016</b>						
Programs	Original Target	* Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	** Total # of Inspections Performed	Comments
<b>NPDES Wastewater</b>						
Major Individual Permits Issued, Revised, and Renewed	11	0	0%	n/a	n/a	
Major Individual Facilities Inspected	25	2	8%	n/a	2	
Minor Individual Permits Issued, Revised, and Renewed	11	1	9%	n/a	n/a	
Minor Individual Facilities Inspected	16	4	25%	n/a	4	
Minor General Enrollees Facilities Inspected	0	1	N/A	n/a	1	
<b>Waste Discharge to Land – Wastewater</b>						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	20	1	4%	24	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	165	26	16%	n/a	26	
<b>Land Disposal</b>						
Landfills Permits Issued, Revised, and Renewed	11	0	0%	n/a	n/a	
Landfill Inspections	104	2	2%	n/a	2	
All Other Permits Issued, Revised, and Renewed	2	0	0%	n/a	n/a	
All Other Inspections	20	3	15%	n/a	3	
<b>NPDES Storm Water</b>						
Stormwater Construction Inspections	289	11	4%	n/a	11	
Stormwater Industrial Inspections	195	13	7%	n/a	13	
Stormwater Municipal Inspections	0	0	N/A	n/a	0	
<b>Other Programs</b>						
Timber Harvest Inspections	166	22	13%	n/a	22	
Confined Animal Facility Inspections	280	16	6%	n/a	17	
<b>Clean Up</b>						
New DoD Sites Into Active Remediation	15	0	0%	n/a	n/a	
New SCP Sites Into Active Remediation	84	5	6%	n/a	n/a	
Cleanup Program Sites Closed	68	8	12%	n/a	n/a	
New UST Sites Into Active Remediation	29	3	10%	n/a	n/a	
Underground Storage Tank Sites Closed	80	15	19%	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) notable enforcement actions; 2) a summary of orders issued; and, 3) a summary of all enforcement actions issued.

- 1) **Notable Enforcement Efforts** – This section provides information on Central Valley Regional Water Quality Control Board efforts that are noteworthy but may not otherwise be included in the other sections of this report.

### **Water Board and Department of Motor Vehicles Coordinate on Storm Water Permits**

The Central Valley Regional Board's Sacramento office regulates over 150 auto dismantlers under the industrial storm water program. Some of these dismantlers failed to enroll in the new industrial permit last year and did not respond to notices of violation issued by Board staff. Recently, Robert Ditto, the industrial storm water lead for the Sacramento office, has been working with the California Department of Motor Vehicles (DMV) to get these delinquent dismantlers to apply for the required storm water permits. This interagency coordination is effective because recent legislation mandates DMV to require persons applying for an auto dismantler license to show that they have an industrial storm water permit. Water Board staff shared a list of about 15 unpermitted auto dismantlers with DMV. In response, DMV has officially notified these dismantlers of their non-compliance and will move forward with enforcement actions—up to, and including, revoking their dismantler license—if they fail to obtain storm water permit coverage. This is an ongoing process that Regional Board staff hope will prove successful and set a standard for compliance moving forward with our industrial storm water program.

### **Vail Resorts Management Company, Kirkwood Mountain Resort, Alpine and Amador Counties**

During the summer of 2015, Vail Resorts Management Company (Vail Resorts) re-surfaced several parking lots at its Kirkwood Mountain Resort with asphalt grindings recycled from road construction on nearby Highway 88. During the winter of 2015-2016, snow removal activities dislodged and deposited a substantial amount of asphalt grindings into Kirkwood Creek, adjacent drainages and unnamed tributaries, and wetlands in Kirkwood Meadows. Board staff received a complaint in April 2016 and initiated an investigation. Staff immediately directed Vail Resorts to prevent the spring snowmelt from depositing any further material into waterways and—as the snow melted—to clean up the material. As of mid-August 2016, approximately 715 cubic yards of grindings have been recovered by Vail Resorts. Vail Resorts plans to restore areas disturbed by cleanup work prior to the winter of 2016-2017. Additional cleanup and restoration work will extend into next summer. Vail is also working with the California Department of Fish and Wildlife (CDFW) to conduct benthic macroinvertebrate monitoring to assess restoration of Kirkwood Creek. Water Board staff are coordinating with both CDFW and the US Army Corps of Engineers on this case and are pursuing enforcement action.

### **Hazardous Waste Illegally Placed in Landfills**

The Central Valley Region has many landfills regulated by Waste Discharge Requirements (WDRs). Each landfill's WDRs prohibit receiving and disposing hazardous waste into their landfill. Beginning in June, staff received notification from Recology Hay Road Landfill in Vacaville that they had mistakenly received approximately 57 tons of hazardous waste from a PG&E Manufactured Gas Plant cleanup site in San Rafael. It was discovered that the waste characterization of the material was incomplete. As a result, a Notice of Violation (NOV) was issued which directing Recology Hay Road to review their waste characterization practices, as well as remove the material and ship it to a

facility that is permitted to accept hazardous waste. Recology Hay Road Landfill has successfully removed the material.

Additionally, it was discovered during staff's investigation that Waste Management's Altamont Landfill also accepted waste from the same cleanup site. A Water Code Section 13267 Order has been issued requesting that Waste Management submit its waste acceptance criteria and the specific documentation that Waste Management reviewed prior to allowing this material to enter the landfill. Staff will review the information to evaluate whether the proper waste characterization analysis was performed, whether the waste is classified as hazardous, and whether it must be removed from the landfill.

In a separate incident, Republic Forward Landfill (Republic) in Stockton apparently unknowingly received 600 tons hazardous waste from Woodland Biomass power plant over a three-year period. A similar NOV was issued which directed Republic to review their waste characterization practices, as well as remove the material and ship it to a facility that is permitted to accept hazardous waste. To date, Republic Forward Landfill has not complied with the NOV and staff is evaluating further enforcement.

#### **Antler's Shell/Subway, 20884 Antlers Road, Lakehead, Shasta County, Case No. 450336**

On 5 July 2016, Central Valley Water Board staff issued a Notice of Violation (NOV) and Order to Submit Information Pursuant to California Water Code Section 13267 to TBS Petroleum, LLC (TBS). In an email dated 11 July 2016, TBS provided additional clarifying information. The NOV was revised on 11 August 2016 and supersedes the 5 July 2016 NOV. The NOV was issued for exceeding methyl tert butyl ether (MTBE) and tert butyl alcohol (TBA) effluent limitations set forth in General Order No. R5-2003-0044-031 and for failing to notify Central Valley Water Board staff when TBS or the consultant had knowledge of noncompliance. Furthermore, although additional sampling requirements (methanol and ethanol) were included when enrolling under General Order No. R5-2003-0044-031, evidence on the State's GeoTracker database indicates that the last time methanol and ethanol were sampled was in December of 2014. Pursuant to Water Code section 13267(b), TBS submitted a technical report outlining a plan for preventing and controlling accidental discharges, and minimizing the effect of such events.

#### **Clover Creek Wastewater Treatment Facility (WWTF), Sequoia National Park, Tulare County**

In response to a complaint, Water Board staff inspected the Clover Creek WWTF on 6 July 2016 and confirmed the alleged overflow of the spray field effluent tank to ground. Although the overflow may have continued intermittently for more than two weeks, no evidence of surface water impact was identified. Related WWTF violations and self-monitoring report violations were identified. The discharger acknowledged the overflow and stated that the overflow had been stopped and corrective actions were underway to prevent a recurrence. In response to the complainant's additional allegation of inadequate oversight of Kings Canyon-Sequoia National Park WWTFs and water treatment plants, Water Board staff performed three additional WWTF inspections and confirmed that Drinking Water Program staff had been informed (they were already engaged). A notice of violation (NOV) was sent to the discharger on 31 August 2016. An article entitled "*Sequoia National Park In violation of Wastewater Disposal*" appeared in the 9 September on-line edition of the *Kaweah Commonwealth*, a Three Rivers newspaper. The article presented a detailed account of the violations included in the NOV.

#### **Compliance and Enforcement All-Staff Annual Kickoff Meeting**

Each year, compliance and enforcement staff working at the Central Valley Regional Water Quality Control Board (Regional Board) attend and participate in a "Work Plan Kickoff Meeting" as part of the Regional Board's *Portfolio Management* initiative. On 2 August 2016, 64 staff—representing all three offices of the Central Valley Regional Board (Fresno, Rancho Cordova, and Redding)—attended the Compliance and Enforcement Program Kickoff Meeting in the Rancho Cordova Office Board Room. During the meeting staff discussed: performance targets for the 2016-17 fiscal year (including inspections per program); responding to complaints from the new CalEPA Complaint database; and anticipated challenges such as implementing proposed changes to the Enforcement Policy.

Managers and Executives working at the Central Valley Regional Board will continue to meet throughout the fiscal year to monitor progress of the Work Plan and address any inconsistencies.

**City of Williams Public Meeting to Discuss Odors from Morning Star Tomato Plant**

During the 2016 tomato packing season, the City of Williams (City) has received numerous complaints about strong odors coming from the Morning Star Tomato Packing facility (Morning Star). Due to the volume of complaints, the City scheduled a special City Council meeting to discuss this issue. Invited to speak were the Regional Board’s Compliance and Enforcement staff, Morning Star, as well as the citizens of the community. On 30 August 2016, Board staff Guy Childs, Howard Hold, and Wendy Wyels attended and participated in the meeting. Following Mayor John J. Troughton’s instructions to the audience regarding protocol for the special meeting, Wendy Wyels explained the actions the Regional Board had taken to get Morning Star to remedy the odor problem. Following staff’s presentation, the floor was open to public comment. Fifty people signed the attendance sheet, and from those at least 30 people spoke. Many were extremely critical that Morning Star had not resolved the odor problem. They complained that they cannot enjoy their own back yards, turn on their air conditioners, enjoy their swimming pool, enjoy a BBQ or simply open a window. Many City business owners complained that the odors were driving customers away. In contrast, contractors from outside of the City—who work with Morning Star—shared support for the company. Finally,

Chris Rufer, the owner of Morning Star addressed the attendees, acknowledged that there have been odors this year, and stated that Morning Star is working on the problem but provided no specific remedies. Following Morning Star’s testimony the City Council closed the forum and discussed the issue. Each Council member related their experiences with the odors, and Mayor Troughton questioned whether property values will decline if odors continue. The Mayor asked Morning Star to take steps to address the odors, and asked that both Morning Star and Water Board staff return on 21 September 2016 to give the City Council an update on the odors. Since 25 August 2016, staff has not received any complaints about odors.

- 2) **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 (21 July 2016 through 9 September 2016)

Date	Agency	County	Notes
8/8/2016	The Morning Star Packing Company, LP	Colusa	California Water Code (CWC) Section 13267 Investigative Order requiring a number of documents to address observed low dissolved oxygen (DO) concentrations observed in the ponds at the subject facility.
9/7/2016	City of Lodi	San Joaquin	Administrative Civil Liability (ACL) Complaint No. R5-2016-0558 in the amount of \$3,000 for an effluent limitation violation that occurred between 1 January 2014 and 30 June 2016.
8/18/2016	James G & Amelia M Sweeney	Tulare	ACL Order R5-2016-0063 affirms ACL Complaint R5-2016-0531 for \$59,850 for failure to submit the 2014 Annual Report.

**Enforcement Table 1 (Continued)**

Date	Agency	County	Notes
9/7/2016	City of Roseville	Placer	ACL Complaint R5-2016-0557 in the amount of \$12,000 for effluent limitation violations that occurred between 1 November 2012 and 30 June 2016.
9/7/2016	Olivehurst Public Utilities District	Yuba	ACL Complaint R5-2016-0559 in the amount of \$3,000 for effluent limitation violations that occurred from 1 January 2013 through 30 June 2016.
9/7/2016	City of Jackson	Amador	ACL Complaint R5-2016-0560 in the amount of \$24,000 for effluent limitation violations that occurred between 1 January 2016 and 30 June 2016.
9/7/2016	Donner Summit Public Utilities District	Nevada	ACL Complaint R5-2016-0561 in the amount of \$6,000 for effluent limitation violations that occurred between 1 May 2015 and 30 June 2016.
7/22/2016	California Department of Corrections and Rehabilitation	San Joaquin	ACL Complaint R5-2016-0536 based on violations of CAO R5-2015-0704 and Order R5-2014-0014.
9/7/2016	City of Colfax	Placer	ACL Complaint R5-2016-05625 in the amount of \$21,000 for effluent limitation violations that occurred between 1 January 2015 and 30 June 2016. This Complaint alleges seven total coliform violations.
9/7/2016	City of Davis	Yolo	The Complaint charges the Discharger with an administrative civil liability in the amount of \$24,000 for effluent limitation violations that occurred between 1 January 2016 and 30 June 2016.
8/29/2016	City of Rio Vista	Solano	ACL Complaint R5-2016-0520 in the amount of \$9,000 for effluent limitation violations that occurred between 1 January 2014 and 30 April 2016. This Complaint alleges one ammonia violation and two total coliform organism violations.

3) **Enforcement Update** – Enforcement Table 2, included below, summarizes the enforcement actions issued in all the Regions since the last EO Report (21 July 2016 through 9 September 2016). From a statewide perspective, Region 5 was responsible for 21% of all the enforcement actions tracked in CIWQS during this period including 60% of all NOV's and 34% of all ACL's.

Region / Office	Enforcement Actions									
	VER	SEL	NOV	NNC	13267	TSO	CAO	CDO	ACL	Total
1	0	0	1	0	0	0	1	0	0	2
2	1	1	2	0	0	0	0	0	8	12
3	0	0	15	0	0	1	0	1	4	21
4	1	0	15	14	0	0	0	0	5	35
5F	1	0	24	0	0	0	0	0	1	26
5R	0	0	1	30	0	0	0	0	0	31
5S	0	1	28	0	1	0	0	0	9	39
<b>RBS Total</b>	1	1	53	30	1	0	0	0	10	96
6T	2	4	0	0	0	0	0	0	0	6
6V	19	6	0	0	0	0	0	0	0	25
7	0	2	0	0	0	0	0	0	0	2
8	14	4	1	204	0	0	0	0	2	225
9	0	29	1	0	0	0	0	0	0	30
<b>Total</b>	<b>38</b>	<b>47</b>	<b>88</b>	<b>248</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>29</b>	<b>454</b>
<b>Enforcement Actions:</b>										
VER = Verbal Communication					TSO = Time Schedule Order					
SEL = Staff Enforcement Letter					CAO = Cleanup and Abatement Order					
NOV = Notice of Violation					CDO = Cease and Desist Order					
NNC = Notice of Non-Compliance (Stormwater)					ACL = Administrative Civil Liability					
13267 = California Water Code Section 13267 Investigative Order										

## SANITARY SEWER OVERFLOWS AND COMPLAINTS

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

There was one SSO event resulting in a spill in excess of 50,000-gallons in June and July of 2016.

#### Lamont Public Utilities District, Lamont, Kern County

On 8 June 2016, the Lamont Public Utilities District (PUD) reported to the Governor's Office of Emergency Services (OES) a spill of raw sewage. The SSO occurred because of a failure in the main electrical panels for the wastewater treatment facility (WWTF) where the transfer switch for the electrical generator is located. This resulted in the failure of the emergency generator to engage following a failure of utility-company supplied power, which caused the headworks to back up into the gravity mainline and resulted in overflow out a manhole to bare ground. No flow reached a waterway. The estimated spilled volume was 100,000 gallons, based on the average 1.2 MGD flow of the WWTF, and the spill occurring for approximately two hours at 50,000 gallons per hour. A Notice of Violation was issued and fact finding and consideration of enforcement options is in progress.

For this reporting period, there were **319** total SSO spills: **11** Category 1, **12** Category 2, and **296** Category 3. 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](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

### CalEPA Complaints.

Central Valley Regional Board staff is responsible for responding to complaints related to water quality within the Central Valley Region as they are received by the online California Environmental Protection Agency (CalEPA) Environmental Complaint Database:  
<https://calepacomplaints.secure.force.com/complaints/>.

So far in 2016, the Central Valley Water Board has received **123** complaints from the database, of which **94** have been investigated and closed, or referred out to another environmental enforcement agency. Investigations for the remaining **29** complaints received this year are ongoing.

## 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, the Delta Conservancy, and the Office of Environmental Health Hazard Assessment. It is supported by funds from the Cleanup and Abatement Account and Delta dischargers. The goal of the Delta MERP is to protect public health by reducing exposure to mercury in fish caught in the Delta.

On August 30, the MERP Steering Committee (comprised of staff from the four collaborating agencies) met to introduce a new staff person, improve coordination procedures, and discuss key components for the 2017 Activity Plan. MERP has developed new advisory signs for the Delta and the sign installations are currently scheduled to take place at the end of Fall 2016.

The three community-based organizations that received small grants in FY15/16 successfully completed a full year of community outreach. The final reports were reviewed and approved for Lao Khmu Association, Inc. (LKA), Asian Pacific Self-Development and Residential Association (APSARA), and the California Indian Environmental Alliance (CIEA).

LKA conducted workshops with many diverse members of the community including those of Cambodian, Laos, Hmong, Spanish, Chinese, and African-American descent. Workshop participants were given presentations, surveys, and pre/post evaluations on fish consumption advisories for the San Joaquin River, the Central and South Delta, the Sacramento River and Northern Delta.

CIEA provided "Making Healthy Fish Choices" trainings and individual consultations at community events in coordination with Women Infant and Children (WIC) & health clinics across several counties. This organization targets pregnant women and families with small children. CIEA also conducted trainings for health care providers from Solano and Contra Costa County.

APSARA staff worked to get MERP consumption advisory materials translated into three target population languages (Vietnamese, Hmong and Cambodian). APSARA also distributed fish consumption advisories and provided educational presentations at many community events and activities such as: Cambodian and Hmong New Year, community meetings, community health fairs, churches and temples activities.

The Community Guide on Health and Benefits of Eating Seafood, an interactive educational tool developed by the California Department of Public Health, is now online. The tool can be accessed through this link:

[http://www.cdph.ca.gov/HealthInfo/environhealth/water/Community%20Guide/presentation\\_html5.html](http://www.cdph.ca.gov/HealthInfo/environhealth/water/Community%20Guide/presentation_html5.html)

Delta Regional Monitoring Program (RMP)

The Steering Committee approved FY 16/17 Detailed Workplan and Budget for pesticides and toxicity, mercury, and nutrients are now available on the RMP web page at:

[http://www.swrcb.ca.gov/rwqcb5/water\\_issues/delta\\_water\\_quality/delta\\_regional\\_monitoring/index.shtml](http://www.swrcb.ca.gov/rwqcb5/water_issues/delta_water_quality/delta_regional_monitoring/index.shtml)

The website also has a newly adopted charter which contains program goals and objectives, management questions, principle of operations, and financial management information.

The RMP will continue current use pesticides and toxicity monitoring on a monthly basis at five monitoring sites around the Delta in FY 16/17. Mercury monitoring in the Delta started in August 2016 to inform the review of the Delta Methylmercury TMDL in 2020. An important element of this work is the co-location of fish and water sampling sites to better understand the uptake of mercury into the food web. The goal of this monitoring is to begin to characterize current conditions and ambient concentrations of total mercury and methylmercury in fish and water, particularly in subareas likely to be affected by new potential methylmercury sources (e.g., large-scale restoration projects).

The RMP will host a Nutrient Monitoring Workshop on 30 September to 1) Identify how much of the nutrient monitoring needed to answer the Delta RMP assessment questions is already happening through existing programs, 2) Identify critical nutrient data gaps for the RMP and develop “no regrets” monitoring plans to fill them, and 3) Develop budget estimates for “no regrets” monitoring activities to facilitate multi-year budget planning for the Delta RMP multi-year plan. The final deliverable will be a summary that synthesizes the findings and recommendations from the workshop. The report will contain a list of options for “no regrets” monitoring activities and their approximate costs that the RMP can consider as part of the multi-year planning meeting on 18 October. The RMP Nutrient Workshop will be closely coordinated with other nutrient monitoring work planned by the Delta Science Program and the Delta Nutrient Research Plan workshop (planned for 29 and 30 November).

## 2. **Delta Nutrient Research Plan**

The purpose of the Nutrient Research Plan is to identify research and modeling needed to determine whether additional nutrient management will help address Delta water quality problems, including low levels of beneficial phytoplankton, harmful algal blooms, and spread of invasive aquatic plants. Staff is working with a Stakeholder and Technical Advisory Group (STAG) to develop the plan. Background papers on nutrients and cyanobacteria blooms, invasive aquatic plants, and mathematical modeling have been completed and are available at the Water Board website:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/delta\\_water\\_quality/delta\\_nutrient\\_researchplan/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_researchplan/index.shtml) .

Staff and the STAG are currently engaged in the following:

Hosting a workshop on 29-30 November 2016 on the importance of nutrient forms (ammonia and nitrate) and nutrient ratios (total nitrogen: total phosphorous in water) in controls of abundance and variety of phytoplankton species. Researchers involved in laboratory and field studies will present their work before an external, expert panel during a public workshop. The outcome of the workshop will be a white paper, available in early 2017.

Developing a process for prioritizing research needs and proposals. The Prioritization Process Work Group is evaluating a process for consideration by the STAG.

## 3. **San Joaquin River Dissolved Oxygen TMDL Implementation – Aeration Facility**

Dissolved oxygen conditions in the Stockton Deep Water Ship Channel (dredged portion of the San Joaquin River) are monitored at the Department of Water Resources Rough and Ready Island water quality monitoring station. Water quality parameters such as dissolved oxygen, water temperature, pH, electrical conductivity, turbidity, and measurements of chl-a fluorescence are measured on a 15 minute time interval, and dissolved oxygen concentrations are measured at three different depths (1 meter, 3 meters, and 6 meters below the surface). In July and August, Port of Stockton operators tracked the progression of water quality conditions and operated the aeration facility as needed to attain the water quality objective for dissolved oxygen. The pumps were operated from July 27 through August 01 and from August 31 through September 8.

### **Contract to Evaluate Potential Toxicity to Native Phytoplankton**

Consistent with Water Boards’ Delta Strategic Plan, contract resources (250K) have been obtained to evaluate the potential toxicity of fungicides and herbicides frequently detected in the Delta to native phytoplankton. A contract is being pursued with UC Davis for the investigation and a final report is expected in spring 2019.

### **Delta Program Meeting Participation**

On 18 August, Janis Cooke attended the Delta Region Area-wide Aquatic Weed Project’s Stakeholder Update Meeting. This collaborative project includes research to track aquatic weeds with satellite imaging, methods of weed management, and effects of management on the ecosystem. Researchers from US Dept. Agriculture, UC Davis, Division of Boating and Waterways, and National Atmospheric and Space Administration participate.

On 29 August, Janis Cooke participated in a meeting of the Delta Nutrient Research Plan Prioritization Work Group. This subcommittee of the STAG is developing a process that could be used by the STAG to prioritize research ideas and proposals.

On 13 September, Christine Joab and Janis Cooke attended the Nutrient Forms and Ratios Workshop Planning Subcommittee meeting. The subcommittee discussed the draft agenda and presenter topics for the workshop.

## TMDL BASIN PLANNING

### 1. **Pesticide Basin Planning/TMDLs**

The State Water Board has released a fact sheet for the Statewide Urban Pesticides Reduction Project which is part of the Strategy to Optimize Resource Management of Storm Water (STORMS). The goals of the project are to improve collaboration among regulators, organize monitoring and data sharing, and establish consistent minimum pesticides control efforts for MS4 storm water permittees. The fact sheet describes the purpose, goals and objectives, progress and timeline for the project, in which Central Valley Water Board staff are participating. The fact sheet can be accessed at:

[http://www.waterboards.ca.gov/publications\\_forms/publications/factsheets/docs/urban\\_pesticides\\_project.pdf](http://www.waterboards.ca.gov/publications_forms/publications/factsheets/docs/urban_pesticides_project.pdf)

### 2. **2014 Integrated Report**

The Clean Water Act Sections 303(d)/305(b) Integrated Report for the Central Valley will be considered as part of the statewide 2014 Integrated Report, along with the Central Coast Water Board and San Diego Water Board. The 2014 Integrated Report will include surface water quality data assessments and Clean Water Act Section 303(d) listing recommendations (identification of impaired water bodies). The draft Central Valley Integrated Report is scheduled for release for public review in mid-September. The draft Central Valley Integrated Report is scheduled to be presented at a Central Valley Water Board workshop in October and at a hearing for consideration of adoption by the Central Valley Water Board in December 2016.

### 3. **Variance Policy and Salinity Programs**

On 8 July 2016, the United States Environmental Protection Agency approved the water quality standards elements of the amendments to both Central Valley Basin Plans to add policies for variances from surface water quality standards for point source dischargers and the salinity variance program. These amendments were adopted by the Central Valley Water Board in June 2014 under Resolution R5-2014-0074, approved by the State Water Board in March 2015 under Resolution 2015-0010, and by the Office of Administrative Law (OAL) in June 2015. The amendments included a salinity exception program that went into effect after OAL approval. All of the amendments adopted under Resolution R5-2014-0074 are now in effect.

### 4. **Temperature Criteria for the Protection of Central Valley Anadromous Salmonids**

Consistent with Central Valley Water Board basin planning priorities adopted in the Triennial Review Work Plan, contract resources have been obtained to evaluate literature to establish a process or methodology for deriving temperature criteria ranges protective of Central Valley salmonids. The goal is to have methodology that will take into consideration life stage, seasonality, water year type and climate change effects.

## SALINITY AND CV SALTS

### 1. **Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS)**

The CV-SALTS Executive Committee policy discussions continued to focus on providing input on finalizing components of the draft Salt and Nitrate Management Plan (SNMP). There were three days of meetings in August, with the first day focused exclusively on discussion and input on the draft Salinity Management Strategy which will go through another round of edits for discussion at the September meeting. The second and third days of the August meetings focused on discussion and input on draft policy documents on Exceptions, Offsets, Management Zones, Secondary MCLs, Drought, and Agriculture. Also discussed were the draft Strategies for Nitrate Permitting and Salinity Permitting. These Policy and Strategy documents are key components of the Draft SNMP. Final draft copies of the documents under discussion can be found at:

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

Two meetings of the Lower San Joaquin River (LSJR) Committee were held in July. Both meetings focused on the presentation the committee planned for the 17 August Board Workshop addressing the proposed Amendment of the Basin Plan for LSJR salinity WQOs.

During the August meeting of the LSJR Committee, committee members finalized the presentation for the 17 August Board Workshop with a focus on the proposal to establish Extended Dry Periods as well as the performance goal and Basin Plan reopener and POTW discharge compliance.

On 17 August a Central Valley Water Board Workshop was held to provide an update on three Basin Planning related case studies being performed as part of CV-SALTS. The presentations by staff and CV-SALTS stakeholders included:

The setting of salt/boron water quality objectives and the adding/modifying of an implementation and monitoring and surveillance program for Reach 83 of the Lower San Joaquin River (LSJR);  
The potential amendment to establish a region-wide process for evaluating the Municipal and Domestic Supply (MUN) beneficial use in agriculturally dominated surface water bodies; and  
The proposed de-designation of MUN and agricultural supply (AGR) beneficial uses in a portion of the Tulare Lake Bed Groundwater Basin.

More information on each of the above projects can be found at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/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>

### 2. **CV-SALTS Meeting Participation**

On 14 July, Jim Brownell and Anne Littlejohn participated in the monthly meeting of the LSJR Committee, held by conference call.

On 22 July, Jim Brownell and Anne Littlejohn participated in the workshop planning Subcommittee of the LSJR Committee, held at the Board offices in Rancho Cordova.

On 1 August, Pamela Creedon, Karl Longley, and Jeanne Chilcott participated in the CV-SALTS Executive Committee Policy Meeting which was focused on review of draft Salinity Management Strategy document.

On 3 August, Glenn Meeks attended the SGMA Roundtable meeting, which focused on best management practices for groundwater sustainability and State Boards proposed fee structure for basin intervention.

On August 4, Jeanne Chilcott participated in a focus group meeting to discuss and revise draft policy recommendations.

On 4 August, Jim Brownell, Anne Littlejohn, and Jeanne Chilcott participated in the LSJR Committee monthly meeting.

On 5 August, Pam Buford attended the CV-SALTS Executive Committee Administrative meeting which focused on administration and updates on technical projects progress.

On August 8, Jeanne Chilcott participated in a focus group meeting to discuss and revise draft policy recommendations.

On 11 and 12 August, Pamela Creedon, Karl Longley, Clay Rodgers, and Jeanne Chilcott participated in the CV-SALTS Executive Committee Policy Meeting which was focused on review of several draft Policy and Strategy issue documents.

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

During July, USBR incorporated Water Board staff and public comments on its draft Fiscal Year 2017 Annual Work Plan, and submitted its final work plan on 28 July. In August, Kirk Nelson of USBR was appointed interim PTMS project manager, with the fulltime manager anticipated to be announced in October. A target date for a new Water Quality Coordinator to replace Michael Mosely has yet to be announced.

4. **Evaluation of Municipal and Domestic Supply (MUN) Beneficial Use in Ag Dominated Surface Water Bodies.**

The Basin Plan Amendment effort to develop a region-wide MUN evaluation process in Ag dominated surface water bodies continues to progress with the development of a draft Staff Report. Staff provided an overview of the proposed Basin Plan Amendment at a public workshop to the Central Valley Water Board on 17 August 2016. The workshop presentation focused on the implementation section and key issues of the amendment. Feedback from workshop participants and Board members will be considered in future versions of the draft Staff Report. The Basin Plan Amendment is scheduled to be brought for consideration by the Board in early 2017.

More information on the project can be found at:

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

5. **Proposed Pilot Study to Identify Elevated Nitrate Concentrations in Domestic Wells and Provide Safe Drinking Water**

The Central Valley Salinity Coalition (CVSC) represents dischargers participating in the stakeholder lead CV-SALTS initiative and facilitates and funds efforts needed to fulfill the goals of CV-SALTS. The primary goal of CV-SALTS is to facilitate provision of safe drinking water to those impacted by elevated nitrate concentrations. As an early effort to meet this goal, the CVSC has initiated the Nitrate Testing and Emergency Drinking Water Fund and has partnered with Self-Help Enterprises to fund a Porterville Pilot Project. The pilot project will work with the Porterville Women, Infants and Children (WIC) office in Tulare County to enable WIC-enrolled families who depend on water from private wells to test their water and learn whether an unsafe level of contamination is present in their water supply. The project will service families in and around the Porterville area and provide nitrate water testing, test results, and specific contamination education to 250 families over the six months pilot project. Through the project, 55 families that do not have a safe source of drinking water will receive bottled water or Point of Use (POU) filtration devices as an interim solution for nitrate issues. The funding provided by CVSC would allow this six month pilot phase to identify any problems and determine the most efficient manner to implement similar programs in other WIC offices. The proposed project will be considered by the Tulare County Board of Supervisors in early October.

## **DAIRIES/CONFINED ANIMAL FACILITIES**

### **1. Enforcement**

Staff has issued Notices of Violation (NOVs) to thirteen dairies enrolled under the Dairy General Order for failure to submit an annual report for the 2015 calendar year, which was due on 1 July 2016. Staff will pursue formal enforcement for dairies that do not submit the required Annual Report following receipt of an NOV. A pre-filing complaint letter will be issued to inform the discharger that the Assistant Executive Officer intends to issue an administrative civil liability complaint (ACLCL) and will provide the discharger with an opportunity to enter into settlement negotiations prior to issuance of the ACLCL.

### **2. Permitting**

Administrative drafts of bovine feedlot and poultry general orders have been released to key stakeholders in industry and environmental groups. Industry representatives have requested additional time to review and comment on both orders and to work with staff on clarifying some of the requirements as well as develop a cost analysis of the orders. Staff intends to have the general order for poultry facilities on the agenda for the December Board meeting. In order to do that, and to continue formal enforcement cases for serious violations of the Dairy General Order, staff intends to release the tentative bovine order in October, with the goal of presenting the order to the Board for consideration at the February 2017 Board meeting.

## OIL FIELDS

### 1. Wastewater Ponds

Revised monitoring and reporting programs (MRPs) are continuing to be issued to oil field wastewater facilities that are regulated under individual WDRs. The MRPs are being issued in lieu of cleanup and abatement orders and require monitoring of groundwater, effluent, solid wastes, and the facility itself. The MRPs also require hydrogeologic investigations that will gather data needed by the dischargers to prepare Notices of Intent for the General Orders. Approximately 14 MRPs have been issued.

### 2. Spill Response

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services. Four significant events occurred in July, August, and September.

- A spill of crude oil and produced wastewater, into a field cultivated with crops occurred on the KCL 31 facility operated by Crimson Resource Management, in the Rosedale Ranch Oil Field on 29 July 2016. It was reported that a contracting transporter accidentally struck a wastewater disposal well head while unloading farming machinery, which caused discharge of fluids into land surrounding the disposal well. The discharged fluids appeared to have affected approximately 0.6-acre of land. It was reported that approximately 300-barrels of produced wastewater and less than 1-barrel of oil were discharged. As of 29 July 2016, some clean-up work appeared to have occurred and the majority of the free liquid was removed.
- A spill of crude oil and gas condensate, into an unnamed blue-line stream bed occurred on the Section 21 facility operated by California Resources Corporation, in the Kettleman North Dome Oil Field on 8 August 2016. The cause of the spill was reported as the failure of a pipeline. Reportedly, approximately one bbl of crude oil and gas condensate over-sprayed to land and affected an irregularly-shaped area with a largest dimension of approximately 60 feet. As of 24 August 2016, affected soil was removed and the cleanup was completed.
- A spill of crude oil and produced wastewater occurred on the Section 18 facility operated by Aera Energy, LLC., in the South Belridge Oil Field on 4 September 2016. The source of the spill was reported as a pipeline leak of unknown cause. The discharged fluids flowed for approximately 0.6 miles on the ground and then affected a public highway and a portion of an almond orchard. It was reported that approximately 39 barrels of oil and 706 barrels of wastewater were discharged. As of 6 September 2016, the majority of oil and affected soil were removed. Staff is scheduled to conduct a follow-up inspection of the site on 14 September 2016, to ascertain the condition of the areas affected by the spill.
- A spill of oil and produced wastewater, into a vegetated area upstream of a blue-line stream bed, occurred on the 29J Facility operated by California Resources Corporation, in the Kettleman North Dome Oil Field on 8 September 2016. The cause of the spill was reported as the failure of a pipeline. The spill affected an area approximately 600 feet long with a width ranging from 5 to 60 feet, and it was reported that approximately 30 barrels of oil and 800 barrels of wastewater were discharged. As of 9 September 2016, clean-up of the affected areas was in progress. Staff will conduct a follow-up inspection of the site, to ascertain the condition of the affected areas after the completion of the clean-up work.

Staff is considering appropriate enforcement for the spills.

### 3. UIC/SB-4 Program

Staff of the UIC/SB-4 Program is currently conducting seven aquifer exemption reviews (Elk Hills Phase II, McKittrick, Kern Front, Cymric, Midway Sunset, Poso Creek, and Kern River). Staff memorandums have been prepared and submitted to the State Water Board for the Elk hills and Mt. Poso aquifer Exemptions. Questions regarding Cymric aquifer exemption were prepared by staff for submitted to the Division for response/clarification. Meetings are currently being scheduled with staff from all three

agencies (State Board, Regional Board, and the Division) to allow direct communication/interactions in addressing the complex issues raised during the aquifer exemption review process. Staff is also currently evaluating two proposed well stimulation projects (Elk Hills and South Belridge) and is reviewing proposed exemptions to area specific groundwater monitoring plans related to well stimulation activities (Lost Hills and South Belridge oil fields). The Lost Hills Exemption has been discussed with staff of the State Water Board and a concurrence letter is currently being drafted by State Water Board staff.

4. **Food Safety**

The Food Safety Expert Panel (Expert Panel) has expanded. The Board has added Dr. Bruce Macler, toxicology and risk assessment expert on environmental water issues for the US Environmental Protection Agency (USEPA) and Dr. David Ting, pesticide and environmental toxicology expert of the California's office of Environmental Health Hazard Assessment (OEHHA). At a face-to-face meeting of the Expert Panel on 25 August 2016, Title 22 expert Robert Hultquist of the Division of Drinking Water gave the panel a history on how Title 22 regulations have evolved, so that they could consider next steps for their own work. Currently the Expert Panel is considering future studies, a literature review, and continuing further research on the lists of chemical additives provided by oil field operators.

## GROUND WATER STRATEGY

### **Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap – Addendum and Ongoing Work (Update)**

A draft Addendum to the Groundwater Quality Protection Strategy (GWQ Strategy) was presented to the Central Valley Water Board at the 19 February 2016 meeting has been finalized and 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. Staff is finalizing work with Program Managers on the development of a workplan for ongoing and new actions included in the Addendum. Following management review and approval the FY 16/17 Workplan will be posted to the Board's website.

The Groundwater Quality Protection Strategy, Addendum, and workplans 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#gwstrategy](http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml#gwstrategy)

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 continue to work toward development of a Salt and Nitrate Management 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://cvsalinity.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. Discussion 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](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](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](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. Anticipate report to be finalized and posted to the website October 2016.

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.

An information item on the conceptual framework for a General Order for Confined Bovine Feeding Operations was presented to the Regional Board at its February 2016 meeting. An Administrative Draft of the General Order has been prepared and released to key stakeholders in industry and environmental groups. Release of a Tentative Order is planned for October, with the goal of presenting the General Order to the Board for consideration at the December 2016 Board meeting.

An information item on the conceptual framework for a General Order for Poultry Operations was presented to the Regional Board at its April 2016 meeting. An Administrative Draft of the General Order has been prepared and was released to key stakeholders in industry and environmental groups on 1 June 2016. Release of a Tentative Order is planned for October, with the goal of presenting the General Order to the Board for consideration at the December 2016 Board 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/long\\_term\\_program\\_development/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/long_term_program_development/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. Since the start of 2016-2017 fiscal year, 16 open, inactive sites were reviewed. Of these, 14 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, 2 need additional staff time and effort on the responsible parties part to resolve, and includes 0 sites in which site information has not yet been located.

Since the backlog reduction project began, 642 sites have been reviewed, with 412 being eliminated from the backlog, and about 239 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. Regional Water Board staff is notifying the individuals enrolled in the previous, 2014 general order of the updated order and will enroll 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 adoption in this fiscal year or early in fiscal year 2017/2018 (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 forty, but is also expected to speed up the processing of applications for WDRs from new or expanding facilities.

Regional Water Board staff have reviewed industrial dischargers by their Standard Industrial Codes and identified two groups that may be appropriate for additional general orders. Staff will be developing white papers for the two types of industries to begin working with the industry representatives for consideration of draft general orders. More information will follow on this.

Regional Water Board staff is also exploring the possibility of a general order for municipal/domestic wastewater treatment facilities that treat their wastewater to comply with levels necessary for water recycling. The water recycling general order is directed to the recycling of the water and does not replace the WDRs on the dischargers with respect to effluent limits, prohibitions, specifications, etc. The hope would be an order that would complement the water recycling general order.

This fiscal year, beginning 1 July, staff has started tracking time to monitor effectiveness of its Lean 6 Sigma project implementation measures. We have found a 23% reduction in the time it takes to process and application and complete the corresponding permit.

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

The OWTS Policy gives Local Agencies, mostly county environmental health departments, an option to propose Local Agency Management Programs (LAMPs). These generally attempt to demonstrate adequacy of existing 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 has received 29 of 30 LAMPs from Local Agencies by the deadline. Our Redding, Rancho Cordova, and Fresno Offices are coordinating reviews in detail to meet a 13 May 2017 deadline for Central Valley Water Board approvals. As of August 2016, staff have reviewed about 80% of the LAMP submittals, and in most cases resolved all issues with local environmental health directors. Remaining issues generally occur either with counties that span jurisdictional boundaries with other regions, or submittals that are substantially incomplete. Once issues are resolved and reviews complete, staff requests environmental health directors to seek LAMP approvals and related new code and ordinance adoptions from their Boards of Supervisors. Next, staff publicly notices LAMPs for Central Valley Water Board approvals at regular meetings. To date, four Central Valley counties have approved LAMPs.

Staff regularly updates progress on the following webpage:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/owts/lamp\\_reviews/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/owts/lamp_reviews/index.shtml)

## **FOREST ACTIVITY PROGRAM**

In early September, René Leclerc participated in a Watershed Emergency Response Team (WERT) for the 2016 Soberanes Fire in Monterey County called by CalOES. Led by Cal Fire and the California Geological Survey, the WERT consisted of a multi-agency team of technical specialists tasked to assess post-fire geologic and hydrologic hazards to life, safety and property on non-federal lands in an area from Carmel to Big Sur. Regional Board staff coordinated with Region 3 staff to provide this assistance. The team spent 10 days identifying and reporting on these hazards, including development of hazard mitigation recommendations and next steps for outreach and implementation. Completed on 15 September, the draft technical report identifies nearly 200 values at risk to post-fire debris flow and flood hazards. These hazards, as well as specific hazard mitigations, were communicated to local agencies during a coordination meeting on 15 September. Cal Fire and CGS staff will continue to engage with local agencies to support hazard mitigation efforts into the fall and winter of 2016/17.

## IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

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 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 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, presented information during the State Board Workshops, and provided written comments on the proposed order. Since May, staff has been meeting with agricultural coalition and environmental justice representatives to discuss issues raised during the Workshops, and in September, staff reinitiated State Board member briefings to discuss how the current ILRP components can be clarified to address the intent of the proposed Order. 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)

### **Crop Nitrogen Knowledge Gap Study Plan**

The Nitrogen Management Plan Technical Advisory Work Group (Work Group) was convened by the Central Valley Water Quality Coalitions to develop guidance for member growers to estimate nitrogen removed and to develop a "Crop Nitrogen Knowledge Gap Study Plan" (Study Plan). The Work Group met from April to September 2015 to discuss current nitrogen management tools, methods to estimate available nitrogen in organic amendments and residual in soil, and methods to estimate nitrogen removed during plant harvest for various crops. Based on input from the Work Group, the Coalitions submitted a Study Plan with guidance documents on 18 December 2015. Based on 19 January 2016 comments from the Executive Officer a revised Study Plan was submitted 19 February 2016. On 29 March, the Executive Officer conditionally approved the revised study plan, contingent upon meeting acceptable timelines from the Work Group for a) submission of summarized, crop-specific A/R ratio information to the Central Valley Water Board for 17 listed crops during the initial reporting year, and b) dissemination of the summarized A/R information to all coalition members that provides each member with their specific A/R ratio in the context of similarly situated operations. On 29 July, the Work Group submitted milestones and timelines for the requested work products.

### **ILRP Quarterly Stakeholder Meeting**

On 11 October 2016, the ILRP stakeholder meeting will be held at the Stanislaus County Farm Bureau. Stakeholder meetings are held to provide an open forum for communication between Water Board staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. Updates are provided by representatives of the Central Valley and State Water Boards, California Department of Food and Agricultural, agricultural coalitions, and environmental justice groups. The focus of the meeting is the Northern San Joaquin/Sacramento coalition group's Management Practice Evaluation Program Work Plan (discussed further in the next paragraph). More information on the quarterly stakeholder meetings can be found on the ILRP website: [http://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/regulatory\\_information/stakeholder\\_advisory\\_workgroup/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml)

### **Management Practices Evaluation Program**

On 4 June, staff received the Management Practices Evaluation Program (MPEP) Group Work Plan and Quality Assurance Project Plan from the East San Joaquin, Sacramento Valley, San Joaquin County and Delta, Westlands, and Westside San Joaquin River Coalitions. The goal of the MPEP is to identify irrigated agricultural practices are protective of groundwater quality and estimate the effect of irrigated agricultural discharges on groundwater quality. The Work Plan includes the MPEP administrative structure, the general MPEP study design and modeling components and the timeline for the MPEP studies, reporting, and outreach. On 1 July, staff met with the Coalitions to request that additional details be included in the MPEP. The Coalitions submitted an updated MPEP on 29 July, which was posted for public review and comment. One comment letter was received by the 31 August deadline. Staff is currently reviewing the MPEP and public comments to determine if additional changes will be necessary prior to approval.

## **ILRP Compliance, Outreach & Enforcement**

### **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 14 – Sept 14
Kings River	24
East San Joaquin	57
Sacramento Valley	148
San Joaquin County & Delta	33
Total	262

### **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 14 – Sept 14
East San Joaquin	29
Kings River	16
Sacramento Valley	42
Total	87

### **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 14 – Sept 14
East San Joaquin	1
Kings River	26
San Joaquin County & Delta	5
Total	32

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

Notices of Violation (NOVs) were sent to 67 East San Joaquin Water Quality Coalition members for their failure to submit Nitrogen Management Plan summary reports by the Board-approved deadline of 1 March 2016. The NOVs required that the members provide their summary reports to both the Coalition and the Water Board. As of 14 September, 32 NOV recipients (or 47.8%) have responded by submitting the missing summary report. Non-compliant members are subject to formal enforcement actions, including the possibility of fines.

### **Administrative Civil Liability Complaints**

Board staff in the Fresno and Rancho Cordova offices issued 14 Administrative Civil Liability Complaints in August. These Complaints, along with others, will be considered by the ILRP enforcement hearing panel planned for 3/4 November 2016 in the Fresno office. Descriptions of the Complaints are provided below and full complaints are available by county on the Water Board's webpage:

[http://www.waterboards.ca.gov/centralvalley/board\\_decisions/tentative\\_orders/](http://www.waterboards.ca.gov/centralvalley/board_decisions/tentative_orders/)

On 8 August 2016, the Assistant Executive Officer issued an Administrative Civil Liability Complaint to Daniel D. and Marie Ruth Singh of Fresno County for violating California Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. The full complaint, which proposes a fine of \$26,813, is available for review on the Central Valley Water Board's "Tentative Orders" webpage.

On 8 August 2016, the Assistant Executive Officer issued five Administrative Civil Liability (ACL) Complaints to East San Joaquin landowners for violating California Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. The ACL Complaint recipients are William and Maria Egleston of Merced County, Gurmail Kaur of Madera County, Bill J. Koretoff of Madera County, Joseph Magdic, Jr. of Madera County, and Brooks and Arlene Rushing of Stanislaus County. Proposed fine amounts range from \$22,022 to \$34,320. The full Complaints are available for review on the Central Valley Water Board's "Tentative Orders" webpage.

On 8 August 2016, the Assistant Executive Officer issued five Administrative Civil Liability (ACL) Complaints to East San Joaquin Water Quality Coalition members who failed to submit farm evaluations. The ACL Complaint recipients are Bounds Family Trust of Madera County, Joe Silveira of Merced County, Singh Farms LLC of Madera County, Smith Brothers Farming of Stanislaus County, and Victor Produce of Merced County. Proposed fine amounts range from \$15,210 to \$70,980. The full Complaints are available for review on the Central Valley Water Board's "Tentative Orders" webpage.

On 9 August 2016, the Assistant Executive Officer issued an Administrative Civil Liability Complaint to Gilbert & Enequina Marroquin of Tulare County for violating California Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. The full complaint, which proposes a fine of \$30,030, is available for review on the Central Valley Water Board's "Tentative Orders" webpage.

On 12 August 2016, the Assistant Executive Officer issued an Administrative Civil Liability Complaint to Alex V. and Vera A. Kobets of Fresno County for violating California Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. The full complaint, which proposes a fine of \$26,813, is available for review on the Central Valley Water Board's "Tentative Orders" webpage.

On 24 August 2016, the Assistant Executive Officer issued an Administrative Civil Liability Complaint to Baldev & Kamaljit Batth of Fresno County for violating California Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. The full complaint, which proposes a fine of \$35,490, is available for review on the Central Valley Water Board's "Tentative Orders" webpage.

### **Settlement of Administrative Civil Liability Complaint**

On 3 July 2015, Board staff sent a letter to Triangle Properties, Inc., and Tichert Land Company of Sutter County informing them of a forthcoming assessment of administrative civil liability (ACL). The letter proposed a settlement meeting with the Dischargers in lieu of Board staff issuing an ACL Complaint for violating California Water Code section 13350 by discharging sediment-laden water from irrigated lands. The meeting resulted in an assessed penalty of \$100,000, half of which will go toward supporting a supplemental environmental project administered by the Rose Foundation. The Executive Officer approved the settlement on 14 September 2016.

### 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.

<b>Table 1 of 2. Coalition Enrollment Information Summary in the Sacramento, Delta, East and Western San Joaquin River Watersheds*</b>							
Coalition Group	CA Rice* Comm.	East San Joaquin	Grasslands Drainage Area	Sacramento Valley	San Joaquin Co. & Delta	Western San Joaquin R.	Total
<b>Participating Growers</b>							
Number of Growers, Pre-Order	2,500	2,225	N/A	7,888	3,256	2,450	18,319
Number of Growers, Current Participant List (2016)*	2,500	3,524	89	8,300	3,609	2,527	20,549
Number of Growers Enrolling Land Due to Directive/eNOI (July 21 – Sept 8)***	N/A	14	N/A	N/A	3	N/A	17
<b>Enrolled Acreage</b>							
Number of Acres, Pre-Order	544,468	535,653	N/A	1,183,491	348,200	467,625	3,079,437
Number of Acres, Current Participant List (2016)*	N/A	697,423	80,859	1,330,502	413,126	433,324	2,955,234
Number of Acres, Previous Annual Fees (2015-2016)**	421,000	698,701	N/A	1,340,216	386,452	435,922	3,282,291
Number of Acres added due to Directive/eNOI (Jul 21 – Sept 8 2016)***	N/A	716	N/A	N/A	191	N/A	907

\* 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 8 September 2016.

<b>Table 2 of 2. Coalition Enrollment Information Summary for the Tulare Lake and Western Tulare Lake Basins</b>									
Coalition Group	Buena Vista	Cawelo	Kaweah Basin	Kern River	Kings River	Tule Basin	Westside	Westlands	Total
<b>Participating Growers</b>									
Number of Growers, Pre-Order	3,794 (Southern San Joaquin Water Quality Coalition)							1,070	4,864
Number of Growers, Current Participant List (2016)*	40	89	1,290	781	4,819	1,044	41	1,276	9,380
Number of Growers Enrolling Land Due to Directive/eNOI (Jul 21-Sept 8 2016)***	0	0	4	2	28	5	0	0	39
<b>Enrolled Acreage</b>									
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)*	30,960	34,877	163,554	524,804	773,473	232,012	99,100	489,698	2,348,478
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 (Jul 21 – Sept 8 2016)***	0	0	98	192	580	162	0	0	1,032

\* 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 8 September 2016

### **Sacramento River Watershed Coalition Groups**

#### **California Rice Commission**

On 24 December 2015, the California Rice Commission submitted the 2015 Annual Monitoring Report for Waste Discharge Requirements for Sacramento Valley Rice Growers. As required by the Order, the Annual Report details the monitoring conducted from 1 November 2015 through 31 October 2015. An addendum to the 2015 Annual Monitoring Report was submitted on 12 April 2016 that includes the updated Rice Pesticide Evaluation required every 5 years under Order R5-2014-0032. The Annual Report was reviewed for compliance with the Order and approved by the Executive Officer on 4 August 2016.

### **Sacramento Valley Water Quality Coalition**

On 11 July, the Sacramento Valley Water Quality Coalition (SVWQC, Coalition) submitted a revised Surface Water Quality Management Plan to address chlorpyrifos in Pine Creek in the Butte-Yuba-Sutter Subwatershed. Central Valley Water Board staff provided SVWQC with comments and recommendations on 25 August 2016 and is awaiting receipt of the final plan prior to final staff review.

On 26 July, the Executive Officer issued conditional approval for the Lake Subwatershed to participate in the Reduced Monitoring/Management Practices Verification Option (MRP Order R5-2014-0030-1). A proposal submitted by the Coalition/Subwatershed demonstrates that conditions specified in the MRP Order are met. Final approval is pending the completion of 2016 malathion monitoring and submittal of the results to staff.

On 2 August, SVWQC submitted a Draft Monitoring Plan Update for the 2017 monitoring year (October 2016 – September 2017). Staff is in the process of reviewing the update.

On 10 August, staff held a Quarterly Status Update Meeting with SVWQC to discuss the status of the Sediment Discharge Erosion Assessment Report Work Plan to Address Proximity to Surface Waters; an update of Placer Nevada-South Sutter-North Sacramento Subwatershed's Reduced Monitoring / Management Practices Verification Option proposal; an approach to resolve dissolved oxygen, pH, and *E. coli* Management Plans; status of submitted management plan completion requests; and progress of SVWQC's management plans.

On 10 August, SVWQC submitted a response to the "Approval of Management Plan Completion for Select Site/Constituent Pairs" that was sent from the Central Valley Water Board to the Coalition on 12 July 2016. Three of seven management plans were not approved for completion. Staff is reviewing SVWQC's request to reconsider the conclusions in the 12 July approval, based on the Coalition's belief that the Management Plans meet the WDR requirements for completion.

On 2 September, SVWQC submitted a request to complete the Management Plan for *Ceriodaphnia dubia* toxicity in the Lower Snake River in the Butte-Yuba-Sutter Subwatershed. The request is under staff review.

On 8 September, SVWQC's Sediment Discharge and Erosion Assessment Report (SDEAR) Work Plan for addressing proximity to surface waters was approved by the Executive Officer. The Work Plan was a requirement of the SDEAR conditional approval and addresses potential discharges from parcels in proximity to water bodies that were not identified in the SDEAR.

On 8 September, the Executive Officer approved SVWQC's request to determine that the development of a management plan is not required for ammonia in Walker Creek in the Colusa Glenn Subwatershed. The determination was based on the conclusion that environmental conditions during sampling (i.e., an isolated pool) were not representative of the effect of discharges from irrigated agriculture in Walker Creek.

### **San Joaquin River Watershed Coalition Groups**

#### **East San Joaquin Water Quality Coalition**

On 31 July, the Coalition's revised Groundwater Quality Management Plan was released for public comment; one comment was received by 31 August deadline. Staff is currently reviewing the Plan, and is considering comments provided by the Environmental Justice Groups.

On 1 August, the East San Joaquin Water Quality Coalition submitted the 2017 water year Monitoring Plan Update report. Staff and the Coalition held a meeting on 6 September to discuss the monitoring schedule presented in the Monitoring Plan. On 16 September, the Coalition submitted a revised Monitoring Plan Update with additional information and evaluations. The report is currently under staff review.

On 31 May, staff received the East San Joaquin Water Quality Coalition's Nitrogen Management Plan Summary Report Analysis for the 2015 Crop Year. The Analysis provides a statistical summary of the Nitrogen Management Plan Summary Report results submitted to the Coalition by growers for the 2015 growing season. On 9 June, the Executive Officer and staff met with the Coalition to discuss the report and the significant number of growers who failed to submit their Nitrogen Management Plan Summary Reports. Water Board staff has and will continue to actively pursue enforcement actions to ensure compliance with this requirement. The Coalition submitted a revised report on 2 August, which was posted for public comment. One comment letter was received during the public comment period. Staff is currently reviewing the revised report and public comments to determine if additional changes will be needed prior to Executive Officer approval.

On 1 September, staff received the Coalition's Quarterly Monitoring Data Report for the period January-March 2016.

On 1 September, the East San Joaquin Water Quality Coalition submitted the Seventh Priority (2015-2017) Subwatershed Summary of Management Practices as an addendum to the Annual Report (submitted 1 May 2016). The addendum includes a complete summary of management practices implemented by growers in the high priority site subwatershed set.

### **San Joaquin County and Delta Water Quality Coalition**

On 19 July, staff completed its review of the San Joaquin County and Delta Coalition's Annual Monitoring Report and Management Plan Progress report covering the period October 2014 through September 2015. The Coalition is complying with the Order requirements. The AMR was due before nitrogen management plan summary information was due. Management practice and nitrogen management plan data will need to be summarized by township in the next AMR.

On 22 July, the Coalition submitted a workplan addressing proximity to surface waters. The workplan is based on requirements found in the Sediment Discharge and Erosion Assessment Report conditional approval. The workplan's goal is to identify parcels that are required to complete the Sediment and Erosion Control Plan based on proximity to surface water. The plan is under staff review.

On 1 August, the Coalition submitted its annual 2016 Monitoring Plan Update by the Order's deadline. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2016 and September 2017. The update is under staff review.

On 2 September, the SJD Coalition submitted an addendum to the 2016 water year Annual Monitoring Report. The addendum covered pesticide use data not available at the time the AMR was produced.

### **Westside San Joaquin River Watershed Coalition**

On 15 August, the Coalition submitted the revised Surface Water Quality Management Plan, which is now under staff review.

On 16 August, staff held a quarterly meeting with the Coalition representatives to discuss activities and progress made in the last quarter year, including the surface water quality management plan (under review), groundwater quality management plan (revisions required), the TMDL report (under review), QAPP amendments (approved), and the Sediment Discharge Erosion Assessment Report Workplan (approved). Upcoming deliverables were also discussed, including the Groundwater Trend Monitoring Workplan due 9/16/16 and the Annual Monitoring Report due 11/30/16.

On 29 August, staff held a meeting with Coalition representatives to discuss staff's comments and the coalition's response to staff's comments on the Groundwater Quality Management Plan (GQMP). The Coalition submitted a revised GQMP on 9/9/16.

### **Grassland Drainage Area Coalition**

On 28 July, the Grassland Basin Drainage Steering Committee submitted the Grassland Drainage Area Groundwater Quality Assessment Report (GAR) required by Waste Discharge Requirements Order R5-2015-0095. The GAR is posted for public comment with a deadline for comments of 19 September. Once any comments are received, staff will review the document for compliance with the Order and provide a recommendation to the Executive Officer to approve or request revisions.

### **Tulare Lake Basin Coalition Groups**

#### **Buena Vista Coalition**

On 7 September 2016, the Executive Officer issued a conditional approval of the Buena Vista Coalition's Groundwater Quality Assessment Report (GAR), following staff review of supplemental information submitted by the Coalition. The GAR is intended to provide the foundational information necessary for design of the Management Practice Evaluation Program, the Groundwater Quality Trend Monitoring Program, and the Groundwater Quality Management Plan(s). The Coalition submitted the supplemental information in response to staff's 3 February 2016 review of the GAR, which noted areas within the report that needed to be addressed in order to comply with Waste Discharge Requirements General Order R5-2013-0120 (General Order). Staff found the supplemental information to be sufficient to allow a conditional approval of the GAR.

On 25 August 2016, Central Valley Water Board staff met with the Buena Vista Coalition and their consultant GEI to discuss questions/concerns regarding the Coalition's upcoming submittal (20 September 2016) of Individual Groundwater Quality Management Plans. Groundwater Quality Management Plans are the key mechanism under Waste Discharge Requirements General Order R5-2013-0120 to ensure that waste discharges from irrigated lands do not cause or contribute to an exceedance of applicable water quality objectives in the underlying groundwater, unreasonably affect applicable beneficial uses, or cause or contribute to a condition of pollution or nuisance.

#### **Kaweah Basin Water Quality Association**

On 21 July 2016, Water Board staff met with Representatives of the Kaweah Basin Water Quality Association and Provost and Pritchard Consulting Group to discuss necessary revisions to the Coalitions Comprehensive Groundwater Quality Management Plan. Discussions included the need to define metrics that will be used to evaluate the effectiveness of the plan as it is implemented.

#### **Kern River Watershed Coalition Authority**

On 22 August 2016, Central Valley Water Board staff issued a review of the Kern River Watershed Coalition Authority's Comprehensive Groundwater Quality Management Plan (GQMP). Staff found that the GQMP needed to be revised to include more detailed information regarding the management practices to be implemented prior to the availability of Management Practice Evaluation Program results. The Kern River Watershed Coalition Authority is required to submit an updated GQMP by 21 October 2016.

#### **Tule Basin Water Quality Coalition**

On 8 August 2016, ILRP staff met with representatives of the Tule Basin Water Quality Coalition to discuss development of the Trend Monitoring Workplan. The Coalition provided a draft outline and discussed their anticipated approach for identifying existing wells suitable for long-term groundwater monitoring. Discussions included a focus on dropping groundwater levels and the need to include a process for identifying replacement monitoring wells when necessary. A complete Trend Monitoring Workplan is due within 1 year of the approval of the GAR, which is 6 January 2017.

#### **Westlands Water Quality Coalition**

On 23 August 2016 Central Valley Water Board staff met with representatives of the Westlands Water Quality Coalition to discuss recent surface water quality exceedances, and address questions regarding potential sources of the constituents. The Coalition may choose to propose a Source Identification Study to eliminate agriculture as a potential source of the constituents, or use the study to better understand the mechanisms that are facilitating the transport of the constituents to surface water.

### **Westside Water Quality Coalition**

On 23 August 2016, Central Valley Water Board staff met with the Westside Water Quality Coalition and their consultant AMEC to discuss the triggers and due date (20 September 2016) for the Coalition's Comprehensive Groundwater Quality Management Plan.

### **Other Projects**

#### **Data Management**

In May 2015, the Central Valley Regional Data Center's (CVRDC) contract expired, and CVRDC's assistance with loading ILRP data into the California Environmental Data Exchange Network (CEDEN) has ceased until a new contract is executed. State Board has not been able to garner more than one bid to renew the contract. This has delayed uploads of ILRP data into CEDEN and will make it more difficult for interested parties to obtain some of the ILRP data.

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 CEDEN. Staff is currently processing the Westside and Sacramento Valley, 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.

Staff loaded the Grasslands Bypass Project electronic field data deliverable covering the monitoring period July through December 2015 into the CV RDC replica database. Staff has been experiencing delays with transmittal of the data to CEDEN because the contract with the CV RDC has expired.

Staff loaded the Westside San Joaquin River Coalition electronic field data deliverable covering the monitoring period September through February 2015 into the CV RDC replica database. Staff has been experiencing delays with transmittal of the data to CEDEN because the contract with the CV RDC has expired.

Staff has completed processing a 2008 Westside San Joaquin River Coalition historical data set. There are 2007, 2006, 2005 and 2004 data sets yet to process. Historical data sets have to be manually entered and reviewed into a spreadsheet before the loading process can proceed. Staff has successfully loaded a 2008 field and chemistry data sets into the CV RDC replica database. Staff will continue processing the other data sets as priorities allow.

#### **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 July 2016 and is currently under staff review.

On 29 April, the 2015 Annual Monitoring Report for the Grassland Bypass Project was submitted to the Central Valley Water Board. A revised draft was submitted on 15 August in response to staff comments. Staff is currently reviewing the revised report for compliance with Order R5-2015-0094.

#### **Rice Pesticide Program**

The 2016 Annual Stakeholder Meeting for the Rice Pesticide Program is scheduled for 12 October in the Central Valley Water Board's Rancho Cordova office. The thiobencarb monitoring results for the 2016 rice growing season and subsequent actions will be presented in the annual monitoring report, which is due to the Board by 31 December.

**Draft Pesticide Evaluation Protocol**

On 27 July, comments on the *Draft Pesticide Evaluation Protocol* were submitted to the Central Valley Water Board on behalf of the Westside San Joaquin Watershed Coalition, East San Joaquin Water Quality Coalition, San Joaquin County and Delta Water Quality Coalition, and the Sacramento Valley Water Quality Coalition. Separate comments were also submitted on behalf of the Kaweah Basin Water Quality Association and the Kern River Watershed Coalition Authority. Staff is in the process of reviewing the comments. The draft protocol can be found at the following link:

*Draft Pesticide Evaluation Protocol:*

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

## NON POINT SOURCE (NPS)

### Clear Lake Nutrient TMDL Implementation

Central Valley Water Board staff is developing a status update for total maximum daily load (TMDL) compliance actions required by the Amendment to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins for the Control of Nutrients in Clear Lake adopted in 2006. This status update will be presented to the Central Valley Water Board in the summer of 2017.

California Water Code Section 13267 Orders were issued on 19 May 2016 to the five parties responsible for implementing the TMDL load and waste load allocations. The parties include the U.S. Forest Service, U.S. Bureau of Land Management, Lake County Department of Water Resources, Caltrans, and Northern California Water Association. The Orders required the parties to submit technical information by July 20 2016 that describes all best management practices (BMPs) and other management measures the parties have implemented since 23 June 2006, and plan to implement, to reduce phosphorus loads to Clear Lake. The information required by the Orders is needed to update the Central Valley Water Board on the progress in implementing the TMDL. All the parties submitted technical information by the July 20<sup>th</sup> submission date. Staff is in the process of reviewing the submissions.

### Cyanobacteria Bloom Notification and Response

Blooms of cyanobacteria and other harmful algae (CHABs) have recently become more frequent in Central Valley waters. The Central Valley Water Board Cyanobacteria Coordinator, Christine Joab, coordinates notification of water body managers, local public and environmental protection agencies, and drinking water purveyors when Central Valley Water Board staff is contacted about potential and confirmed CHABs. In addition, the Cyanobacteria Coordinator has coordinated with the Surface Water Ambient Monitoring Program, Drinking Water Program, and other programs at the State and Central Valley Water Boards to initiate monitoring and press releases where local agencies do not have adequate resources. The Cyanobacteria Coordinator has coordinated notifications for eleven bloom events during the current bloom season (March-September), as summarized in the following table.

Summary of Suspected and Confirmed Cyanobacteria Bloom Reports				
Month	Report Name	Water Body Type	Report Status	Actual Case of Cyanobacteria (Genera)
March	1. Galt Report 2. American River Report	1. Creek & private pond 2. River	1. Closed 2. Closed	Galt = no American River = no
April	3. Chico Report	Small lake	3. Closed	Chico = yes
May	4. San Joaquin Cattle Ponds	Cattle stock ponds	4. Closed	San Joaquin = yes
June	5. San Joaquin River 6. Woodward Reservoir	5. River 6. Reservoir	5. Open 6. Open	San Joaquin = yes Woodward = yes
July	7. Thompson Lake 8. Eastman Lake 9. Shasta Lake – Upper Pit River Arm 10. Lake Britton 11. Discovery Bay  12. Lake Oroville 13. San Luis Reservoir & O'Neill Forebay	7. Lake 8. Lake 9. Reservoir  10. Reservoir 11. Man-made water feature in Delta 12. Reservoir 13. Reservoirs	7. Open 8. Open 9. Open  10. Open 11. Open  12. Open 13. Open	Thompson = To be determined Eastman = To be determined Pit River Arm Shasta = yes  Britton = yes Discovery Bay = yes  Oroville = yes San Luis & O'Neill = yes
August	14. Mountain Meadow Reservoir 15. Lake Isabella 16. Pond on tributary to Mary Lake 17. Clear Lake	14. Reservoir 15. Reservoir 16. Pond 17. Lake	14. Open 15. Open 16. Closed 17. Open	Mountain Meadow = yes Lake Isabella = yes Pond to Mary Lake = no Clear Lake = yes

<b>Summary of Suspected and Confirmed Cyanobacteria Bloom Reports</b>				
<b>Month</b>	<b>Report Name</b>	<b>Water Body Type</b>	<b>Report Status</b>	<b>Actual Case of Cyanobacteria (Genera)</b>
	18. Big Break 19. Lake Clementine	18. Delta bay 19. Reservoir	18. Open 18. Closed	Big Break = yes Lake Clementine = no
As of September 12	20. South Delta	20. Delta channels	20. Open	South Delta = yes

## 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](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/](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 is participating in the grant proposal review teams with the State Water Board. It is anticipated that a final Implementation Grant Funding List will be posted by the State Water Board in October 2016.

### **Clean Water Act §319(h) Nonpoint Source Grant Program:**

The State Water Board is accepting concept proposal applications for the 2017 Nonpoint Source Grant Program, supported by funds from Clean Water Act §319(h). Eligible projects include those that reduce or restore Nonpoint Source impaired surface waterbodies, projects identified in watershed plans, and Timber Fund Projects that implement forest management measures that demonstrate water quality improvement. Concept proposal applications are due by 10 October. More information on project eligibility and application process at available on the NPS Grant Program webpage at:

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

### **Clean Water Act §319(h) Nonpoint Source 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 BMPs. Chlorpyrifos and diazinon comprise the adopted TMDL for the watershed. This grant works to reduce or eliminate farmers' use of diazinon and chlorpyrifos. (end date 6/30/19)

Mercury on a Landscape Scale: Balancing Regional Exports with Wildlife Health (\$749,500) – The Bureau of Land Management is using the Cosumnes River Preserve to test water flow strategies for removing methylmercury as it is an ideal matrix of replicate seasonal wetlands to evaluate potential management practices to reduce methylmercury concentrations. (end date 6/30/17)

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 6/30/2018)

**Timber Regulation and Forest Restoration Fund:**

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 five 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)

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)

**Grants to be executed by 30 June 2017:**

- Battle Creek Watershed Plan (Battle Creek Watershed Conservancy, Tehama and Shasta Counties)
- Ponderosa Way Road Assessment and Sediment Reduction Plan Phase I and Phase II (Resource Conservation District of Tehama County)
- Post-Fire Response to Forest Management: Mitigations for Improved Water Quality Performance (California Department of Forestry and Fire Protection Watershed Protection Program, Boggs State Forest, Lake County)
- Roadside Fuel Reduction (Yuba County Public Works)

## PUBLIC OUTREACH

On 1 June, Anthony Medrano followed up with the Kern Environmental Enforcement Network (KEEN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 8 June, Anthony Medrano followed up with IVAN Kings County coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 13 June, Anthony Medrano provided translation assistance to a disadvantaged community member residing in Lindsay, Tulare County regarding stormwater permitting inquiries.

On 14 June, Anthony Medrano followed up with Fresno Environmental Reporting Network (FERN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 5 July, Anthony Medrano followed up with the Kern Environmental Enforcement Network (KEEN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 12 July, Anthony Medrano followed up with Fresno Environmental Reporting Network (FERN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 16 July, Anthony Medrano travelled to the disadvantaged community of Allensworth, Tulare County to participate in a public outreach event at the Colonel Allensworth State Historic Park. The event was sponsored by the Tulare County Summer Night Lights Program.

On 21 July, Griffin Perea attended the Lake County environmental crimes task force meeting. These meetings are held quarterly to discuss various enforcement cases where environmental damage has occurred and how the attending agencies can leverage resources to enforce and clean up the environmental damages. Typical attendees include Lake County environmental health department, Lake County code enforcement, various law enforcement agencies, members of the California District Attorneys Association, and Central Valley Water Board staff.

On 27 July, Alex MacDonald participated in the Aerojet Rocketdyne Community Advisory Group meeting in Rancho Cordova. The main issues discussed were the EPA Drinking Water Health Advisories for PFOA and PFOS (emerging contaminants) and a presentation by RWQCB and Aerojet staff on the potential for creation of a waste management unit on Aerojet to handle the wastes generated by moving the existing Aerojet Class III landfills and some CERCLA cleanup generated materials. Alex also presented information regarding recent cleanup activities on the Aerojet site, including the installation of several groundwater monitor wells and the soil removal activities at the AMPAC facility. (AMM)

On 28 July, Griffin Perea attended the Shasta-Trinity County environmental crimes task force meeting. These meetings are held quarterly to discuss various enforcement cases where environmental damage has occurred and how the attending agencies can leverage resources to enforce and clean up the environmental damages. Typical attendees include county environmental health departments, county code enforcement, various law enforcement agencies, members of the California District Attorneys Association, and Central Valley Water Board staff

On 1 August, Bethany Soto participated in the Tulare Basin Integrated Regional Planning Effort which is a group of IRWM practitioners from the Tulare - Kern Funding Area. The meeting focused on the IRWM implementation status of each of the IRWM groups participating, coordination with Disadvantaged Communities (DACs) within the Tulare Basin, and an update on formation of groundwater sustainability agencies within the Tulare - Kern funding area.

On 2 August, Bethany Soto participated in the Poso Creek IRWM Plan Implementation meeting. Meeting included the approval of an amended memorandum of understanding, to include the membership of Southern San Joaquin Municipal Utility District. In addition, the group discussed DAC involvement and needs.

On 2 August, Amy Terrell attended a public meeting for the Frontier Fertilizer Superfund Site in Davis. EPA's project manager, Bonnie Arthur, and EPA's consultant, Matt Marlatt of CH2M presented a brief history of the site. The current groundwater extraction system has removed about 1,545 pounds of the pollutants 1,2-dichloropropane, 1,2,3-trichloropropane, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and carbon tetrachloride. The current extraction rate, however, is only about 30 gallons per minute. Six new extraction wells and 3 new monitoring wells were installed last month. These extraction wells will be plumbed to the existing treatment system next month and will enable the treatment system to treat about 160 gallons per minute, reducing the time expected for cleanup.(AST)

On 2 August, Anthony Medrano followed up with the Kern Environmental Enforcement Network (KEEN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 9 August, Anthony Medrano followed up with Fresno Environmental Reporting Network (FERN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 10 August, Anthony Medrano followed up with IVAN Kings County coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 10 August, Selina Cole and Patrick Morris attended the Interagency Ecological Program stakeholder meeting. Patrick provided a presentation on the Delta Regional Monitoring Program describing the goals of the program and current monitoring efforts for pathogens, pesticides and toxicity, mercury, and nutrients.

On 17 August, Shane Edmunds attended the Resource Conservation District of Tehama County (RCDTC) board meeting in Red Bluff, California. At the meeting the cooperative effort by the Central Valley Water Board and Battle Creek Watershed Conservancy to pursue a Watershed-Based Plan (WBP) was discussed. The RCDTC was supportive of the WBP effort and indicated they have staff and equipment that will be available to contract out for implementation projects. The meeting ended with Central Valley Water Board staff stating they would keep the RCDTC informed on the WBP and hopefully try to incorporate the RCDTC into future planning and implementation of the WBP.

On 17 August, Roy Sherrell participated in a panel discussion with several Yolo County Officials at a regularly scheduled meeting of the Yolo County Chapter of NORML (National Organization for the Repeal of Marijuana Laws). Mr. Sherrell answered questions regarding the Central Valley Water Board's General Order for medicinal cannabis cultivation.

On 23 August, Tessa Fojut, Janis Cooke, Daniel McClure, and Amanda D'Elia attended the Interagency Ecological Program Pelagic Organism Decline Contaminants Work Team meeting. Studies in the Delta relating to contaminants were discussed by scientists and researchers from academia and several agencies, including a study to evaluate the potential toxicity of fungicides and herbicides frequently detected in the Delta to native phytoplankton currently being developed by Regional Board staff.

On 23 August, Christine Joab attended the California Water Quality Monitoring Council Meeting, which was focused on harmful algal blooms. Speakers from a number of organizations provided presentations and perspectives on existing and planned efforts related to monitoring, assessment, reporting, coordination, and response actions.

On 24 August, Lynn Coster and Brett Stevens attended Sacramento Valley Water Quality Coalition's monthly meeting in Yuba City. Brett briefed meeting attendees on staff's Sacramento Valley outreach plans for the year, including on-farm inspections.

On 26 August, Shane Edmunds and Ben Letton attended a board meeting of the Battle Creek Conservancy (BCC) near Manton, CA. During the meeting Mr. Edmunds and Mr. Letton discussed with the BCC board members details of the recently awarded Timber Regulation and Forest Restoration Fund to support development of a Watershed Based Plan in Battle Creek. There was additional discussion specific to the development of a MOU between the Battle Creek Conservancy and the Central Valley Water Board to help define roles and responsibilities of each organization over the life of the grant and WBP development.

On 6 September, Anthony Medrano followed up with the Kern Environmental Enforcement Network (KEEN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 8 September, Elizabeth Lee served on panel titled – Working Together: Flood Risk, Permitting Requirements, and Enhancing the Permitting Process at the Floodplain Management Association's Annual Conference in Sacramento. The panelists, which consisted of representatives from the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, California Department of Fish and Wildlife, and Central Valley Flood Protection Board, provided the conference attendees with a short introduction to the various regulations that pertain to projects in the floodplain, including projects to reduce damage from floods and processes project proponents may need to complete prior to starting construction. The panelist also discussed opportunities for streamlining the permitting process.

On 9 September, Griffin Perea attended an informational meeting in Tehama County regarding commercial cannabis cultivation in California. Mostly the meeting revolved around new water rights regulation, commercial cannabis cultivation, and water use, however there were numerous questions regarding the Central Valley Water Board's General Order for medicinal cannabis cultivation. Mr. Perea answered questions regarding the general order and interfaced with Tehama county representatives and members of public.

On 9 September, Janis Cooke joined Adam Laputz at a meeting of the San Francisco Bay Nutrient Management Strategy Steering Committee. Janis provided an update on planning for the Delta Nutrient Research Plan's Nutrient Forms and Ratios workshop. Other meeting topics included an update regarding the San Francisco Bay's nutrient science program and planning a review of potential nutrient management strategies.

On 13 September, Anthony Medrano followed up with Fresno Environmental Reporting Network (FERN) coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. He also made a brief presentation regarding CalEPA's Supplemental Environmental Projects program.

On 14 September, Anthony Medrano followed up with IVAN Kings County coordinator to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. He also made a brief presentation regarding CalEPA's Supplemental Environmental Projects program.

On 15 September, James Taylor participated in the former McClellan Air Force Base Restoration Advisory Board (RAB) meeting at the North Highlands Park and Recreation District Center in North Highlands, California. This is a public meeting where agencies inform the public of cleanup issues at Department of Defense facilities and enlist their comments. The main topics for the meeting were general updates on the Air Force and Privatized Cleanup Projects at McClellan. (JDT)

On 24 September, five staff from the Title 27 Permitting and Mining Unit, and one staff from the Compliance and Enforcement Unit at the Rancho Cordova Office attended an in-office brown bag presentation on the principles of passive treatment for mine impacted water entitled *Towards Sustainability in Mine Water Management: Source Control to Passive Treatment Systems* presented by Jim Gusek and Bill Walker, Sovereign Consulting Inc., and Ross Grunwald, Georesource Management. As presented, source control refers to preventing sulfide oxidation within mining waste by replacing sulphur oxidizing bacteria with other microorganisms; and passive treatment systems generally consist of a series of sequential metal removal beds, bioreactors, wetlands, and/or geochemical barriers. Several case studies including the Golinsky and Empire Mines within the Central Valley Region were discussed, with implications for possible treatment strategies at the Jamestown Mine in Tuolumne County.

**PERSONNEL AND ADMINISTRATION**

**STAFFING UPDATE**

**July 21, 2016 through September 12, 2016**

**Promotion:**

None

**Leave of Absence:**

Ann Palmer – Water Resource Control Engineer  
 John Moody – Water Resource Control Engineer  
 Scott Zaitz – Environmental Scientist

**Retirement:**

George Day – Senior Water Resource Control Engineer

**Authorized Positions:** 251.7

**Vacant Positions:** 21

<b>Separations</b>	<b>New Hires</b>
None	Amanda D'Elia – Environmental Scientist Mercedes Merino – Engineering Geologist Marcus Ellison –Engineering Geologist

**Temporary Help Positions**

<b>Separations</b>	<b>New Hires</b>
Yuvraj Singh – Scientific Aid Joseph Draper – Scientific Aid John Overton – Engineering and Architectural Student Sarah Storz – Scientific Aid	None

**TRAINING UPDATE**

**July 21, 2016 through September 12, 2016**

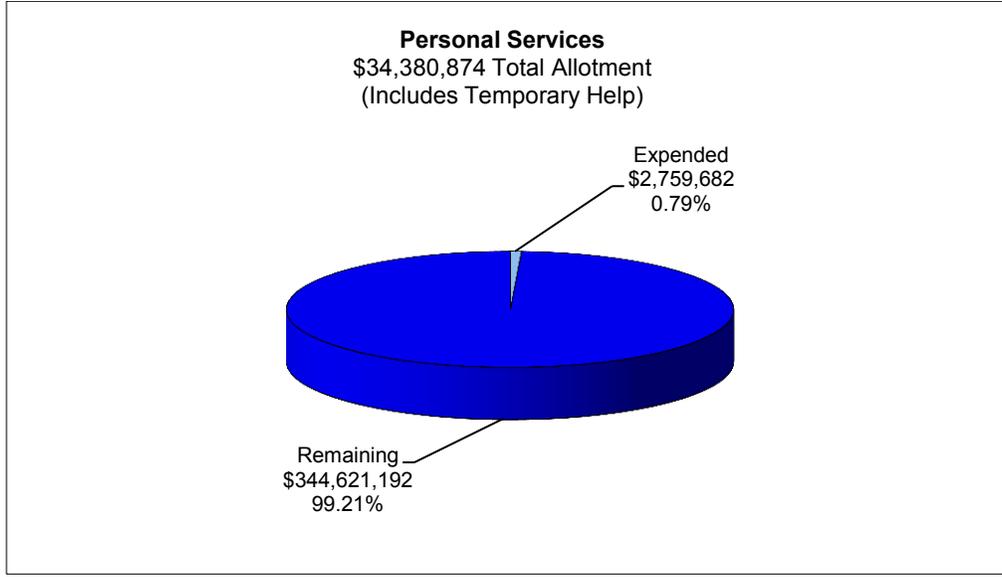
<b>Class Title</b>	<b>Number of Attendees</b>
2016 CASQA Twelfth Annual Conference <sup>3</sup>	
40-Hour HAZWOPER	2
Basic Supervision for State Supervisors - Part II	1
Building Resilience - Supervisors Only	2
CA Aquatic Bioassessment Workgroup	1
CASQA 2006 Conference	1
Defensive Drivers Training	8
Desktop GIS	1
ECOS & Hiring Process Training for Managers	10
ESMR 2.5 Training	3
Excel 2010 - Part 1	1
Excel 2010 - Part 2	1
Field Safety Training	24
Groundwater Contamination and Remediation: Principles and Practices	2
Hazardous Communications	123
Heat Stress	4
Injury & Illness Prevention Training (IIPP)	4
Introduction to ArcGIS for the Water Boards	2
Introduction to Environmental Statistics	2
Managing Conflict - Supervisors Only	2
Metal Attenuation in Soil and Groundwater: Applying the Six Scenarios	18
New Employee Orientation	1

NPDES Wastewater Facility Inspections Training	1
PACe	2
Principals of Contaminant Transport & Fate in Soil & Groundwater	8
Project Time and Cost Management	1
Scope of Work Training	1
Writing for Planners, Engineers and Policymakers	3

**FISCAL UPDATE**  
**Through July 31, 2016**  
(Approximately 9% should have been expended)

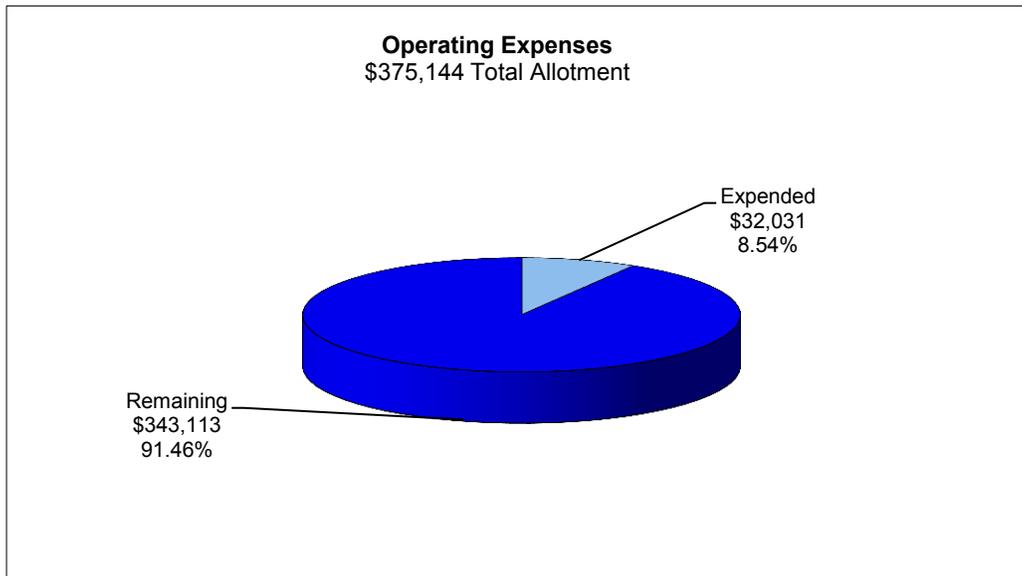
Personal Services:

The information below represents the budget for the 2016-17 Fiscal Year. Our Personal Services budget supports 251.7 PYs. The Regional Board has received 8 new technical positions for this fiscal year in the following programs: 2 - Ambient Monitoring and Assessment; 2 – Medical Marijuana Implementation; 4 – Site Cleanup.



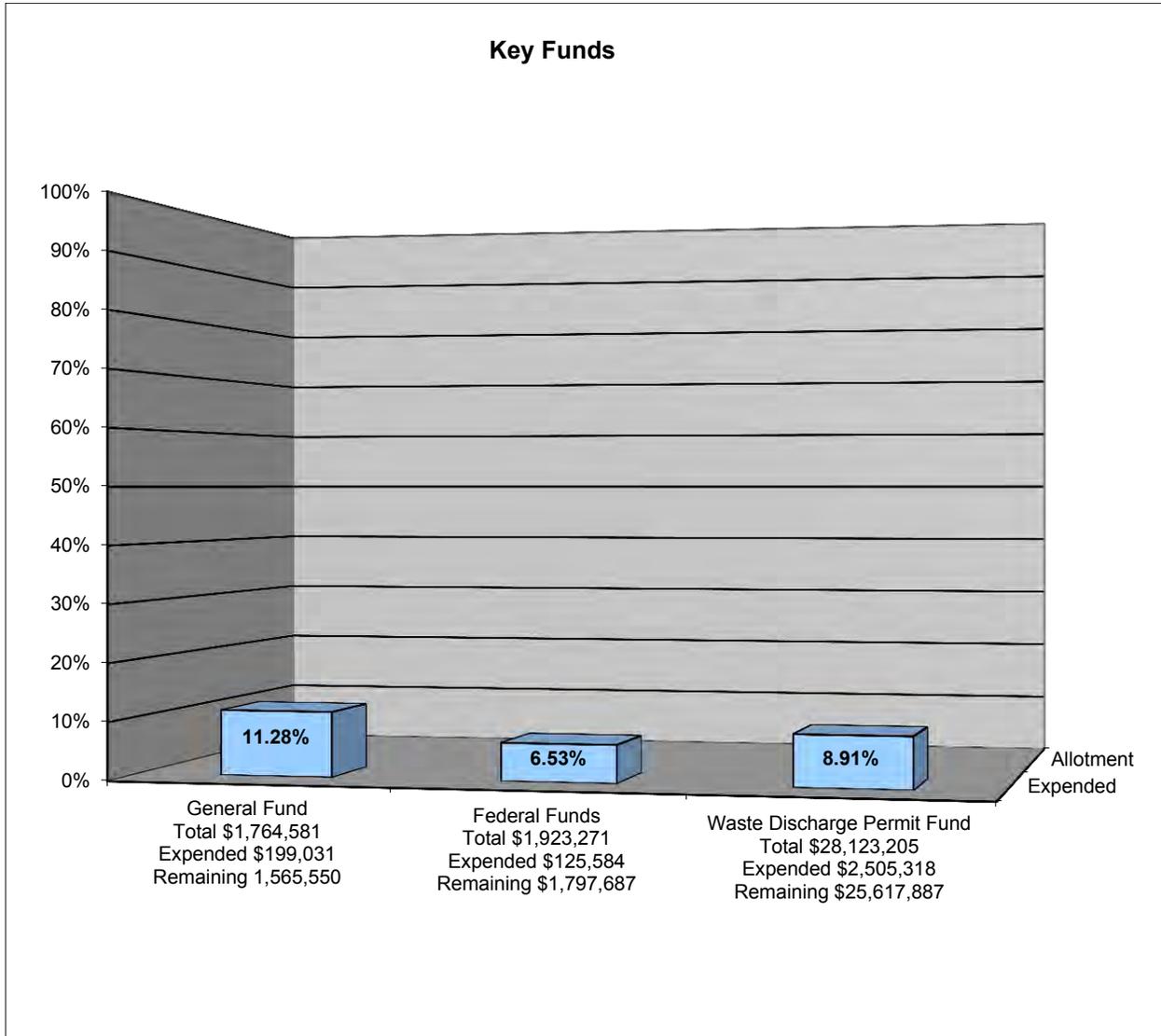
Operating Expenses:

The information below represents the budget for the 2016-17 Fiscal Year. Our Operating Expense budget is \$375,144.



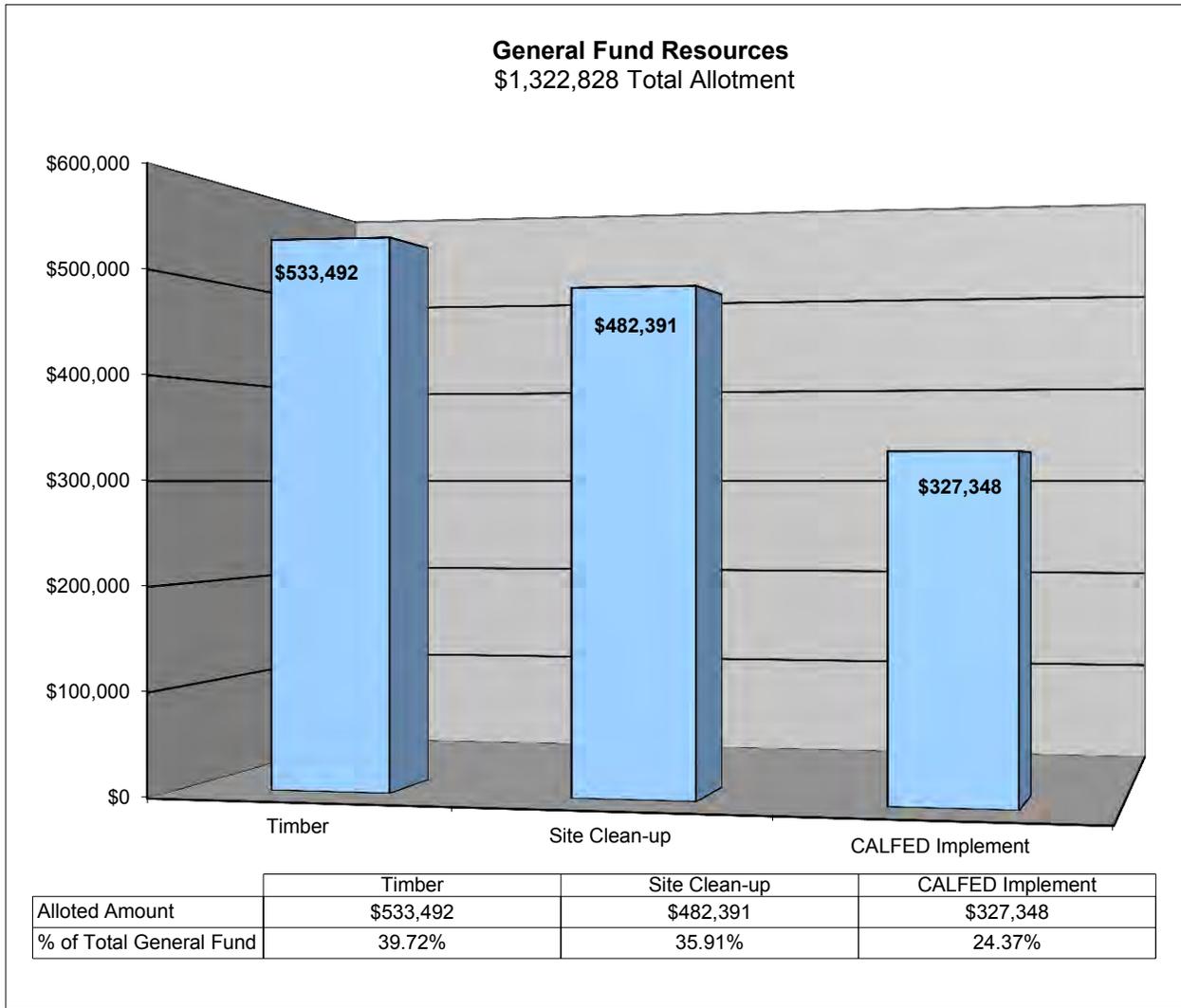
## Key Funds

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:

Our General Fund budget for the 2016-17 Fiscal Year is \$1,322,828. 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

<u>Contract #</u>	<u>Contractor Name</u>	<u>Description</u>	<u>End Date</u>	<u>Amount</u>
<b><u>Administrative Support Services</u></b>				
<u>15-072-150</u>	<u>California Reporting</u>	<u>Court Reporter Services</u>	<u>6/30/2018</u>	<u>\$36,000</u>
<u>15-150-0758</u>	<u>California Reporting</u>	<u>Court Reporter (off-site)</u>	<u>6/30/2017</u>	<u>\$4,800</u>
<b><u>Operational Support Services</u></b>				
<u>15-047-150</u>	<u>San Jose State Foundation</u>	<u>Support for Statewide Mercury Control Program</u>	<u>3/31/2018</u>	<u>\$200,000</u>
<u>15-011-150</u>	<u>Moore Twining</u>	<u>Lab Analysis – Fresno</u>	<u>2/28/2018</u>	<u>\$130,000</u>
<u>15-011-150</u>	<u>Basic Laboratory</u>	<u>Lab Analysis - Redding</u>	<u>2/28/2018</u>	<u>\$110,000</u>
<u>15-095-150</u>	<u>Monterey Bay Analytical</u>	<u>Lab Analysis - Rancho Cordova</u>	<u>6/30/2018</u>	<u>\$160,000</u>
<u>15-023-150</u>	<u>Air Shasta Rotor &amp; Wing</u>	<u>Helicopter Services</u>	<u>9/30/2017</u>	<u>\$40,000</u>
<b><u>Water Quality Study/Planning</u></b>				
<u>11-123-555</u>	<u>San Joaquin Valley Drainage Authority</u>	<u>CV-Salts - Phase 2</u>	<u>12/1/2016</u>	<u>\$3,800,000</u>
<u>13-093-150</u>	<u>Delta Conservancy</u>	<u>Delta Mercury Exposure Program</u>	<u>3/1/2018</u>	<u>\$370,000</u>
<u>13-103-150</u>	<u>California Department of Fish &amp; Wildlife</u>	<u>Stream Health Assessment</u>	<u>9/30/2016</u>	<u>\$42,537</u>
<u>13-105-150</u>	<u>The Regents of UC Davis</u>	<u>Butte Creek Sediment</u>	<u>9/30/2016</u>	<u>\$44,901</u>
<u>14-025-150</u>	<u>Delta Conservancy</u>	<u>Delta Mercury Exposure Reduction Program</u>	<u>6/30/2017</u>	<u>\$370,000</u>
<u>14-030-150</u>	<u>USGS</u>	<u>Urban and Agriculture Pesticide Monitoring</u>	<u>6/30/2017</u>	<u>\$175,000</u>
<u>14-100-150</u>	<u>The Regents of UC Davis</u>	<u>Large Scale Analysis of Annual Report Data</u>	<u>3/31/2017</u>	<u>\$150,000</u>

## **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.

### **OCTOBER 2016 BOARD MEETING**

City of Colusa (Time Schedule Order)  
Limited Threat General Order (Permit Renewal)  
Placer County SMD1 Rescission

### **DECEMBER 2016 BOARD MEETING**

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

- Bolthouse Farms, Bakersfield carrot plant (Revised WDRs)
- City of Redding, Clear Creek WWTP (Permit Renewal)
- City of Willows WWTP (Permit Renewal)
- CRC/North Kern Water Storage District (Amended WDRs)
- Harris Ranch Selma Beef Processing (Revised WDRs)
- Los Gatos Tomatoes (Revised WDRs)
- McMannis Family Vineyards (Revised WDRs)
- Municipal Wastewater General Order (New General Order)
- Pleasant Valley State Prison WWTF (Revised WDRs)
- UC Davis Aquatic Weed & Hydraulics Lab (Revised WDRs)

### **FEBRUARY 2017 BOARD MEETING**

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

- Califia Farms (Revised WDRs)
- Hammonton Gold Village (Permit Renewal)
- London CSD (Revised WDRs)
- Pactiv, LLC Molded Pulp Mill (Permit Renewal)
- Sun Pacific Shippers, Bakersfield (Revised WDRs)

#### **LAND DISPOSAL PROGRAM- CHAPTER 15/TITLE 27**

- Buckeye Landfill, Shasta County (Revised WDRs)
- Chestnut Avenue Landfill, Fresno County (Revised WDRs)
- Loomis Landfill, Placer County (Updated WDRs)
- Rock Creek Landfill, Calaveras County (Revised WDRs)

#### **CONFINED ANIMAL FACILITIES PROGRAM**

- General Order for Confined Bovine Feeding Operations

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

- NP Ameripride Services Inc. Operable Unit 3 (Permit Renewal)
- Bogle Vineyards (Revised WDRs)
- Bully Hill Rising Star Mines (New WDRs)
- Burney Wastewater Treatment Plant (Revised WDRs)
- CA Dept. of Corrections, Mule Creek (Revised WDRs)
- Calaveras County Water District, Copper Cove WWTF (Revised WDRs)
- City of Angels Wastewater Treatment Plant (Permit Renewal)
- City of Atwater Regional WWTF Rescission
- City of Delano WWTF (Revised WDRs)
- City of Fresno WWTF (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Lodi (Revised WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto (Revised WDRs)
- City of Modesto Wastewater Quality Control Facility (Permit Renewal)
- City of Nevada City (Permit Renewal)
- City of Newman (Revised WDRs)
- City of Portola WWTP (Permit Renewal)
- City of Richgrove WWTF (Revised WDRs)
- City of Tuolumne WWTF (Revised WDRs)
- City of Visalia WWTF (Revised WDRs)
- Colusa Industrial Park (Revised WDRs)
- Delicato Family Vineyards (Revised WDRs)
- Digger Bay Marina (Revised WDRs)
- Empire Mine (Permit Renewal)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Ingomar Packing (revised WDRs)
- Ironhouse Sanitation District (Revised WDRs)
- Liberty Packing Tomato Processing (Revised WDRs)
- Linda County (Permit Renewal)
- Maxwell PUD (Revised WDRs)
- McCloud WWTF (Revised WDRs)
- Metropolitan Stevedore Company (Permit Renewal)
- Mokelumne Rim Vineyards (Revised WDRs)
- Monarch Nut Company (Revised WDRs)
- Morningstar Packing Company (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Olam Tomatoes, Williams Plant (New WDRs)
- Olson Meats (Revised WDRs)
- Palo Cedro Wastewater Treatment Facility (Revised WDRs)
- Smuckers Juice Plant (Revised WDRs)
- Southern Cal Edison Big Creek Powerhouse No. 1 WWTF Rescission
- Spanish Mine, Nevada County (New WDRs)
- Tasteful Selections (Revised WDRs)
- Treehouse Almonds (Revised WDRs)
- UC Davis Center for Aquatic Biology and Aquaculture (Revised WDRs)
- UCD CABA (Permit Rescission)
- Washington Mine (Limited Term Permit Renewal)
- Yocha De He Tribe (Revised WDRs)
- Zacky & Sons Poultry (New WDRs or MRP)DES PROGRAM – PERMITTING

**LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27**

- City of Bakersfield Sanitary Landfill, Kern County (Revised WDRs)
- Houston Ave. Landfill, Kings County (Revised WDRs)
- Loyalton Landfill, Sierra County (Revised WDRs)
- Red Bluff Landfill, Tehama County (Revised WDRs)
- Union Mine Landfill, El Dorado County (Revised WDRs)

**CONFINED ANIMAL PROGRAM**

- Consideration for Adoption – General Order for Poultry Facilities (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-16	Implement Lower San Joaquin River Salt/Boron TMDL	<b>2016-09-14</b> 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 FY15/16 Annual Workplan to address salt loading accepted by EO on 24 September 2015, with Addendum in November 2015. USBR also submitted an annual report update in January 2016. The RTMP stakeholders formed a steering committee in October 2015 with the first meeting on March 1, 2016. The steering committee submitted its first annual report on March 31, 2016. The steering committee has applied for a DWR grant for west side San Joaquin Valley monitoring stations on tributaries to the Lower San Joaquin River. USBR FY16/17 Annual Workplan was accepted by EO in September 2016.	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.	<b>2016-09-14</b> Regional Board completed CEQA Scoping meeting in March 2009. Development of proposed water quality criteria for inclusion in a staff report in support of a proposed BPA establishing EC WQOs has been completed in 2015 by the stakeholder driven, CV-SALTS Lower San Joaquin River sub-committee. Staff are preparing the staff report and proposed BPA. A Regional Board workshop was held on 17 August 2016 and provided an overview of the proposed amendment. Consideration by the Regional Board in December 2016.	Regional	R5
A-16	General Order for Poultry Facilities	<b>2016-08-04</b> General Order for poultry raising and egg laying facilities. Information item on draft poultry order was presented in April 2016. Administrative Draft has been circulated. Release of the Tentative Order is scheduled for October 2016, and is anticipated to be presented in front of the Board for consideration in December 2016.	Regional	R5
*A-16	Phase I update of the Bay-Delta Plan:- San Joaquin River flows and southern Delta salinity.	<b>2016-08-03</b> 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

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-16	Petition Order for Central Valley Regional Board's Eastern San Joaquin Agricultural Order	<b>2016-07-25</b> On February 8th, 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.	Statewide	SB
A-16	General Order of WDR for Discharges Related to Timberland Management in the Central Valley	<b>2016-09-15</b> Two initial public meetings were held in late 2015 to discuss changes to the current Timber Waiver of WDRs, this resulted in the drafting of a General Order. Two additional public meetings were held in April 2016 to go over the working draft, resulting in the forming of subject-specific focus groups. Staff will take an informational item to the board in October 2016 and expects to take a final proposal to the board in spring 2017.	Regional	R5
A-16	Nonpoint Source (NPS) Implementation and Enforcement Policy Amendments	<b>2016-08-26</b> 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 Quality Control Board regulation of nonpoint source wastewater discharges. A draft for public review is tentatively scheduled for release in October 2016.	Statewide	SB
A-16	Unified Program Underground Storage Tank Surcharge Increase	<b>2016-08-02</b> Underground Storage Tank (UST) Leak Prevention Program, as part of CalEPA's 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.	Statewide	SB
A-16	SB 83, Section 45 - Produced Water Pond Report	<b>2016-08-24</b> The State Water Board posted on its website a status report on the regulation of oil field produced water ponds within each region on July 29, 2016. Link to report: <a href="http://www.waterboards.ca.gov/water_issues/programs/groundwater/sb4/index.shtml">http://www.waterboards.ca.gov/water_issues/programs/groundwater/sb4/index.shtml</a> . 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-16	Big Creeks Projects - Clean Water Act, Section 401, Water Quality Certification	<b>2016-08-03</b> 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

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-16	Report to Legislature on the feasibility of developing uniform recycling criteria for direct potable reuse	<b>2016-05-04</b> Division of Drinking Water staff are working with Advisory Group and Expert Panel to prepare and complete the Report to the Legislature. Water Code Section 13565(c) requires SWRCB to prepare a draft report summarizing the recommendations of the Expert Panel with respect to Research needs related to DPR by June 30, 2016. As required by Water Code section 13563, a public review draft of the report will be completed by September 1, 2016, for a 45-day public review and comment period. Staff anticipates taking an informational item to the Board on December 6, 2016.	Statewide	SB
A-16	State Water Board Water Quality Enforcement Policy Amendments	<b>2016-08-31</b> State Water Board staff has prepared proposed amendments to the Water Quality Enforcement Policy (Enforcement Policy). In 2010, the State Water Board adopted Resolution No. 2009-0083 amending the Enforcement Policy, which was approved by the Office of Administrative Law. The Enforcement Policy establishes a methodology for assessing administrative civil liability. The use of this methodology addresses the factors that are required to be considered when imposing a civil liability as outlined in Water Code section 13385, subdivision (e). The revised Enforcement Policy was released for public comment in August 2016. State Water Board consideration is planned for Dec. 2016.	Statewide	SB
A-16	Surface Water Augmentation with Recycled Water Regulations	<b>2016-08-03</b> The Division of Drinking Water is currently developing the regulation package for 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 has been 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 is reviewing the peer review comments and staff are determining if revisions to the regulation are necessary.	Statewide	SB
A-16	Revised Total Coliform Rule	<b>2016-05-04</b> 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 fall 2016, with a proposed Board Adoption date of December 6, 2016.	Statewide	SB
A-17	Bacteria Standards for Ocean and Inland Surface Waters	<b>2016-07-25</b> 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 pathogens. The bacteria objectives are proposed to be adopted as amendments to the Statewide Inland Surface Waters, Enclosed Bays and Estuaries Plan, and the California Ocean Plan. Staff plans to release draft documents for public review and comment in November of 2016. State Board Web site: <a href="http://www.waterboards.ca.gov/bacterialobjectives/">http://www.waterboards.ca.gov/bacterialobjectives/</a>	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Phase II Small Municipal Separate Storm Sewer System (MS4) Permit Amendment	<b>2016-08-31</b> 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) and the permit Fact Sheet. The proposed amendment includes:(1) new and revised implementation requirements based on corresponding TMDL wasteload allocations, and (2) final compliance dates for the new and revised implementation requirements. In 2015, an informal draft amendment was released to Regional Water Quality Control Board staff and permittees for administrative review, and subsequent workshops were conducted throughout the state as requested. The draft amendment was changed and the Fact Sheet rewritten to provide history and basis for the TMDL Amendment. Issuance of the draft amendment for public review and comment is tentatively scheduled for September 2016.	Statewide	SB
A-17	Statewide Aggregate General Order	<b>2016-08-25</b> 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	<b>2016-07-13</b> 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	Mercury Water Quality Objectives & Implementation	<b>2016-08-23</b> In coordination with the Reservoir Mercury TMDL team, staff is preparing mercury water quality objectives and a plan of implementation. Scientific peer review was initiated on May 1, 2016, and the scientific reviewers' comments are expected on October 1, 2016. The draft staff report and the draft regulatory language are expected to be released to the public in early 2017.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
*A-17	Maximum Contaminant Level (MCL) for 1,2,3-Trichloropropane (1,2,3-TCP)	<b>2016-08-03</b> Division of Drinking Water staff are in the process of drafting the regulation and are working on the CEQA analysis, developing the Standardized Regulatory Impact Assessment (Major Regulation), and the external scientific peer review. Staff held focused stakeholder meetings in Visalia, Fresno, and Bakersfield in May and early June and held public workshops in Sacramento (July 20), Bakersfield (July 26), and Fresno (July 28) where the preliminary staff recommendation for an MCL was presented to the public. These meetings and workshops will be followed by a public comment period and public hearing in fall/winter 2016. Staff anticipate a Board Adoption date in early 2017, and then provide the regulations package to OAL for its review and approval. The MCL is anticipated to be effective in the spring/summer of 2017.	Statewide	SB
A-17	Statewide General Waste Discharge Requirements Order for Wineries	<b>2016-08-31</b> 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 performed and additional outreach meetings will be scheduled.	Statewide	SB
A-17	Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan	<b>2016-08-31</b> Focused stakeholder outreach meetings are anticipated for September and October 2016. A Board Hearing to receive public comments is anticipated in January 2017 and Board consideration in March 2017.	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)	<b>2016-08-31</b> State Water Board staff is developing proposed Procedures for Discharges of Dredged or Fill Materials to Waters of the State. The draft procedures were released for public comments on June 17, 2016 and the Board held a hearing on July 19th. The Comment period closed on August 18. Staff is reviewing comments and working on revisions to the policy.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Environmental Laboratory Accreditation Regulations	<b>2016-07-21</b> Division of Drinking Water staff have drafted updated regulations governing the accreditation of laboratories under the Environmental Laboratory Accreditation Program (ELAP). The updated regulations clarify the roles of State Water Board lab auditors and the laboratories to ensure efficient, effective, and flexible implementation of ELAP. The draft regulations are under internal review and staff anticipate compiling the final regulation package in the last quarter of 2016 and initiate the rule-making process in the 2nd quarter of 2017.	Statewide	SB
A-17	Blue Green Algae Action Levels	<b>2016-08-02</b> State Water Board staff is working with a multi-agency workgroup consisting of the Water Boards, California Department of Public Health, Office of Environmental Health Hazard Assessment, and United States Environmental Protection Agency to update the Draft Voluntary Guidance Document for California CyanoHABs (CCHABs) related to monitoring and posting public notices of warning or closure. Staff is also coordinating with the Water Quality Monitoring Council CCHAB workgroup on issues related to CCHABs.	Statewide	SB
A-17	Statewide General Order for Discharges from Natural Gas Facilities	<b>2016-09-16</b> 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. The proposed Statewide General Order and the proposed CEQA documents will be issued for public review and comment in late 2016, with subsequent State Water Board consideration of adoption in early 2017.	Statewide	SB
*A-17	2014 and 2016 California Integrated Report Adoption	<b>2016-08-15</b> Staff has combined the 2014 and 2016 California Integrated Reports and scheduled them for approval at a single State Water Board Meeting not later than August 2017. This will allow the six participating Regional Water Boards (2, 3, 4, 5, 8, and 9) sufficient time to complete development of their reports and complete their Regional Water Board approval process.	Statewide	SB
*A-17	Sediment Quality Objectives (SQOs) for Enclosed Bays and Estuaries: Phase II*	<b>2016-07-06</b> Water Board staff is developing a methodology to implement and 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. Staff is using the Los Angeles Long Beach Harbors TMDL as a case study to address many of the issues associated with the human health implementation framework as well as addressing other questions related to the application of SQOs as TMDL targets. Several groups and committees, including the SQO Advisory Committee, the Agency Coordination Committee, and the Harbor Technical Work Group (HTWG), are collaborating on studies that will assist in the development, testing, and implementation of Phase II SQOs. Staff presented an information item to the State Board on October 7, 2015. The SQOs are under development. Staff anticipates that the case study and test drive will be completed by late this year, followed by release of draft documents in February 2017.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-18	Permanent (Regular) Regulations for Point Of Use/Point of Entry Treatment Devices	<b>2016-04-20</b> 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	Bio-stimulatory & Biological integrity Project	<b>2016-08-31</b> Staff has completed Focus Group outreach efforts by having Focus Group meetings from February 2016 to June 2016. An outreach document is available for public review at the State Water Board's website on the nutrient objectives webpage. Staff plans to update the project's Regulatory and Stakeholder Advisory Groups on the technical science and information received during the focused stakeholder outreach meetings. Southern California Coastal Water Research Project (SCCWRP) staff are researching and developing the biological condition gradient (BCG) model that will be used in the assessment of the effects of nutrients on stream biological conditions. A CEQA scoping meeting is anticipated in late 2016.	Statewide	SB
A-18	Statewide Urban Pesticides Reduction	<b>2016-08-30</b> The State Water Board is developing a statewide multi-agency framework for urban pesticides reduction 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 is developing proposals for (1) A framework for interagency coordination, (2) a regional monitoring framework, and (3) suggested permit language for MS4 permittees. The project is in early development phase with outreach expected to begin in early 2017.	Statewide	SB
A-18	Recycled Water Policy Update	<b>2016-09-16</b> State Water Board staff is drafting a resolution for the State Water Board's consideration in Fall of 2016 regarding updating the Recycled Water Policy. Please note that this resolution is intended to outline what needs to be updated or added to the policy and direct staff to work with stakeholders to develop an updated policy and bring it to the board in the future. State Water Board staff is also developing a project charter and timeline for the next update of the Recycled Water Policy.	Statewide	SB
*A	Onsite Wastewater Treatment Systems (OWTS) Policy Implementation	<b>2016-07-25</b> 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	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Chlorine Amendment	<b>2016-06-21</b> 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. This action is a priority for U.S. EPA.	Statewide	SB
A	Natural Resources	<b>2016-06-21</b> A draft natural source issue paper has been submitted to the Basin Planning Roundtable for review and comment. Issues include recommendations for making designations where natural background exceeds the water quality objectives. The Regional Board staff and U.S. EPA agreed that additional work was needed to define a "Natural" source.	Statewide	SB
A	New winery waste guidelines	<b>2016-09-14</b> 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
A	Development of water quality criteria for the herbicides oxyfluorfen, prometryn, simazine and trifluralin and the insecticide fipronil. Reccomended aqatic life criteria are being developed UC Davis under contract with RB5.	<b>2016-09-09</b> Draft UC Davis criteria documents for the four herbicides were released for public comment (including comments on potential peer review topics) in June 2016. A draft fipronil criteria document is scheduled for release September 2016. Peer reviews are scheduled for August-September 2016. Final reports will be complete in April 2017. for more information please see: <a href="http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/criteria_method/">http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/criteria_method/</a>	Regional	R5
A	USFS MOU for BAER activities	<b>2016-05-20</b> 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	<b>2016-09-15</b> 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. An EIR will be developed to address CEQA.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Delta Regional Monitoring Program-RMP	<b>2016-09-08</b> The Delta RMP has a monitoring design for toxicity/pesticides, pathogens, mercury, and nutrients and a workplan for FY15/16. In April 2016 the Steering Committee approved the FY16/17 monitoring plan and budget, which will include mercury monitoring this year.	Statewide	SB
A	Revision of General Order for Existing Dairies	<b>2016-08-04</b> Revision of Revised General Order R5-2013-0122 to include requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements. Will draft revisions following Board consideration of the General Order for Bovine Feedlots	Regional	R5
A	Groundwater Quality Protection Strategy	<b>2016-09-08</b> At the Central Valley Water Board's September 2010 meeting Resolution #2010-0095 was adopted which approved the Groundwater Quality Protection Strategy for the Central Valley Region, A Roadmap. Progress reports on the implementation of the priority actions were provided at the June 2012, December 2013, and February 2016 Central Valley Water Board meetings. At the February 2016 Board Meeting staff presented a draft Addendum to update the Strategy. Addendum has been finalized to incorporate Board input and posted on the Board's website. Fiscal Year 16/17 Workplan for ongoing and new actions is under development.	Regional	R5
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	<b>2016-09-14</b> Revised strategy and workplan to address funding constraints February 2012. Case studies evaluating appropriate beneficial uses and associated water quality objectives for AGR and MUN in surface and groundwater. Initial modeling results for salinity/nitrate source and fate and assimilative capacity completed. Implementation alternatives under evaluation. CEQA Scoping meetings completed October 2013. Draft SNMP Framework in 2014. Final SNMP in 2016. State Water Board annual report presented at 16 February 2016 Board Meeting. Central Valley Water Board workshop held 22 June 2016 on framework and policies to support implementation. Submittal of final SNMP end of 2016.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	Cadmium Objective and Hardness Implementation Policy	<b>2016-08-30</b> Senate Bill 637 updated the Water Code and Fish and Game Code to allow issuance of permits for suction dredge mining if certain conditions are certified by the Department of Fish and Wildlife and if permits are issued by the Department of Fish and Wildlife, but only once a permit is issued by the State Water Board. Accordingly, the State Water Board may resume the effort to develop a statewide general permit or other regulatory framework. Senate Bill 637 first requires Water Boards staff to conduct stakeholder outreach in areas where Department of Fish and Wildlife suction dredge mining permits were issued before the moratorium was imposed. Water Boards staff will conduct public outreach in Fall 2016.	Statewide	SB
A	Statewide Storm Water Construction General Permit Reissuance	<b>2016-09-19</b> State Water Board staff is developing the draft permit language for the reissuance of the current Statewide Storm Water Construction General Permit (also referred to as the CGP). The proposed CGP reissuance will include implementation of Total Maximum Daily Loads (TMDLs) and revisions to update the CGP requirements per information collected during the term of the existing permit. Further information on the development of the proposed permit reissuance, including stakeholder outreach information, will be located on the State Water Board's Construction Storm Water Program website at: <a href="http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml">http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml</a>	Statewide	SB
A	Suction Dredge Mining Activity	<b>2016-08-30</b> Senate Bill 637 updated the Water Code and Fish and Game Code to allow issuance of permits for suction dredge mining if certain conditions are certified by the Department of Fish and Wildlife and if permits are issued by the Department of Fish and Wildlife, but only once a permit is issued by the State Water Board. Accordingly, the State Water Board may resume the effort to develop a statewide general permit or other regulatory framework. Senate Bill 637 first requires Water Boards staff to conduct stakeholder outreach in areas where Department of Fish and Wildlife suction dredge mining permits were issued before the moratorium was imposed. Water Boards staff will conduct public outreach in Fall 2016	Statewide	SB
C	Implement Mercury TMDL/Control Program in Cache Creek Watershed - Sacramento River and San Joaquin River Basin Plan	<b>2016-09-08</b> Mining wastes at six inactive mercury (Hg) mines in the upper Cache Creek watershed are being remediated in summer 2016 to prevent the continued erosion of mercury sediment into Sulphur Creek, a tributary to Cache Creek. The project should be completed in September 2016.	Regional	R5
P	Water Effects Ratios	<b>2016-07-25</b> 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

Key	Item	Status	Statewide or Regional Project	Org. Lead
P	Antidegradation Policy	<b>2016-07-19</b> 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 East 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	<b>2016-07-20</b> 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 approved by State Board. Staff gathering additional information to respond to State Board and USEPA comments. Expected completion date 2018.	Regional	R5
P	New Manual of Good Practice for Land Application of Food Processing/Rinse Water	<b>2016-09-14</b> 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)
Blue = Completed 2016 - 2010 (C2016 - C2010)
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 2016 through July 2016

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 2016	0	1	7	8	1	0	1	2	3	4	82	89	99
July 2016	1	2	4	7	1	1	2	4	5	4	200	209	220
<b>Total</b>	<b>1</b>	<b>3</b>	<b>11</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>6</b>	<b>8</b>	<b>8</b>	<b>282</b>	<b>298</b>	<b>319</b>

Spill Cause	Count of Spills	%
Root Intrusion	196	61.4%
Debris-General	56	17.6%
Grease Deposition (FOG)	21	6.6%
Other	8	2.5%
Operator Error	6	1.9%
Pipe Structural Problem/Failure	6	1.9%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	5	1.6%
Vandalism	5	1.6%
Debris-Rags	4	1.3%
CS Maintenance Caused Spill/Damage	3	0.9%
Debris from Lateral	3	0.9%
Pump Station Failure-Power	2	0.6%
Damage by Others Not Related to CS Construction/Maintenance	1	0.3%
Debris from Construction	1	0.3%
Pipe Structural Problem/Failure - Installation	1	0.3%
Pump Station Failure-Controls	1	0.3%
<b>Grand Total</b>	<b>319</b>	<b>100%</b>

**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 2016 through July 2016

Region	Collection System	WDD	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	
SR	Plumas Eureka Estates CS	SSSO10842	826861	Certified	Category 1	Lift Station near 244 Sequoia Circle, Blairsden, CA	Plumas	Yes	15,000	15,000	7/9/2016	Other (specify below)	
SS	City Of Jackson CS	SSSO10895	826727	Certified	Category 1	511 Sutter St	Amador	Yes	2,150	2,150	7/28/2016	Grease Deposition (FOG)	
SF	Kern Sanitation Authority CS	SSSO10737	826609	Certified	Category 1	2407 Avenida Escuela	Kern	Yes	1,800	1,620	7/24/2016	Root Intrusion	
SS	Sacramento Regional CS	SSSO11045	826232	Certified	Category 1	N-19 Arden Pump Station - Surge Tank	Sacramento	Yes	1,722	1,413	7/6/2016	Operator Error	
SS	Discovery Bay CS	SSSO10929	825395	Certified	Category 1	Lakeshore Lift Station	Contra Costa	Yes	900	400	6/12/2016	Other (specify below)	
SS	Sacramento Area Sewer District CS	SSSO10912	826294	Certified	Category 1		164253	Yes	314	314	7/9/2016	Root intrusion	
SS	Grass Valley City CS	SSSO10958	825692	Certified	Category 1	231 Colfax Ave	Nevada	Yes	500	290	6/24/2016	Grease Deposition (FOG)	
SS	Hangtown Creek CS	SSSO10965	826582	Certified	Category 1	2954 Schnell School Rd	El Dorado	Yes	180	180	7/22/2016	Root Intrusion	
SR	Red Bluff CS	SSSO10845	825405	Certified	Category 1	920 Franzell Rd.	Tehama	Yes	120	95	6/11/2016	Root intrusion	
SS	Hangtown Creek CS	SSSO10965	826871	Certified	Category 1	2954 Schnell School	El Dorado	Yes	60	60	7/28/2016	Grease Deposition (FOG)	
SS	Hangtown Creek CS	SSSO10965	826201	Certified	Category 1	689 Main St	El Dorado	Yes	5	5	6/30/2016	Other (specify below)	
SF	Lamont PUD CS	SSSO10738	825384	Certified	Category 2	6525 Bear Mountain Blvd, Lamont CA 93241	Kern	No	100,000	-	6/8/2016	Other (specify below)	
SS	California State Prison, Sacramento CS	SSSO11183	826655	Certified	Category 2	California State Prison-Sacramento	Sacramento	No	13,320	-	7/26/2016	Debris-General	
SF	MD-7 Marina View CS	SSSO11320	826848	Certified	Category 2	MD7 Force Main between lift station and gravity sewer line	Madera	No	3,500	-	7/8/2016	Pipe Structural Problem/Failure	
SS	Deer Creek CS	SSSO10923	826919	Certified	Category 2	DC-2016-07-09	El Dorado	No	3,195	-	7/21/2016	Root Intrusion	
SS	Dry Creek CS	SSSO10935	825330	Certified	Category 2	208 King	Placer	No	2,020	-	6/6/2016	Pipe Structural Problem/Failure	
SS	Folsom State Prison CS	SSSO11192	825305	Certified	Category 2	FWF Lift Station	Sacramento	No	2,000	-	6/8/2016	Pump Station Failure-Power	
SS	City Of Auburn CS	SSSO10722	825469	Certified	Category 2	144 Teamtrack RD SSO	Placer	No	2,000	-	6/10/2016	Debris-General	
SS	WRP 1 MBR	SSSO10985	826295	Certified	Category 2	River Islands Parkway at McKee Boulevard	San Joaquin	No	2,000	-	7/11/2016	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	
SF	North of River Sanitary District #1 CS	SSSO10750	826437	Certified	Category 2	Mohawk Street & Krebs Road	Kern	No	2,000	-	7/15/2016	Other (specify below)	
SS	Folsom State Prison CS	SSSO11192	825389	Certified	Category 2	FWF Lift Station	Sacramento	No	1,500	-	6/11/2016	Pump Station Failure-Power	
SR	Corning Indust/Domestic CS	SSSO10805	826057	Certified	Category 2	Marguerite Av	Tehama	No	1,500	-	7/6/2016	Grease Deposition (FOG)	
SS	Amador City CS	SSSO10863	826426	Certified	Category 2	Septic Pump Tank in Driveway of 10300 Fleehearth Street	Amador	No	1,200	-	7/5/2016	Other (specify below)	
SS	City of Sacramento Utilities CS	SSSO10901	825589	Certified	Category 3	2771 FRUITRIDGE RD, SACRAMENTO, CA	Sacramento	No	916	-	6/2/2016	Grease Deposition (FOG)	
SS	City Of Lakeport CS	SSSO10896	825740	Certified	Category 3	1940 Lakeshore Blvd	Lake	No	700	-	6/27/2016	Pump Station Failure-Controls	
SR	Plumas Eureka Estates CS	SSSO10842	826864	Certified	Category 3	Manhole #18 near 105 West Ponderosa Drive, Blairden, CA	Plumas	No	550	-	7/6/2016	Debris-General	
SF	Wasco State Prison CS	SSSO10775	826056	Certified	Category 3	Facility A- building 2 exterior Wasco State Prison	Kern	No	500	-	6/6/2016	Debris-General	
SS	Sunset Whitney, Zone 2A3 CS	SSSO11361	826808	Certified	Category 3	3195 Athens Avenue, Lincoln-Western Regional Landfill	Placer	No	420	-	7/25/2016	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	Galt CS	SSSO10951	826425	Certified	Category 3	galt cal	Sacramento	No	365	-	7/14/2016	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	Sacramento Regional CS	SSSO11045	825917	Certified	Category 3	N51-MH0021A	Sacramento	No	356	-	6/29/2016	CS Maintenance Caused Spill/Damage	
SF	Tehachapi Correctional Inst CS	SSSO10763	827119	Certified	Category 3	california correctional institution	Kern	No	300	-	7/18/2016	Debris-General	
SF	City of Fresno CS	SSSO11202	825751	Certified	Category 3	1630 E. Shaw	Fresno	No	274	-	6/23/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	SSSO10912	827695	Certified	Category 3		164625	Sacramento	No	240	-	7/18/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	827783	Certified	Category 3	164625	Sacramento	No	240	-	7/18/2016	Root intrusion	
SF	Tuolumne Utilities District CS	SSSO10771	826865	Certified	Category 3	277 Stewart st	Tuolumne	No	210	-	7/29/2016	Other (specify below)	
SS	Sacramento Area Sewer District CS	SSSO10912	826770	Certified	Category 3		162094	Sacramento	No	208	-	6/10/2016	Root intrusion
SR	Redding City CS	SSSO10801	825412	Certified	Category 3	1100 Echo Rd.	Shasta	No	200	-	6/9/2016	Debris-Rags	
SS	Lake Wildwood CS	SSSO10984	825926	Certified	Category 3	18192 hummingbird dr. penn valley ca 95946	Nevada	No	180	-	7/3/2016	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	SSSO10912	827711	Certified	Category 3		165015	Sacramento	No	139	-	7/24/2016	Debris-General
SS	Sacramento Area Sewer District CS	SSSO10912	827799	Certified	Category 3	165015	Sacramento	No	139	-	7/24/2016	Debris-General	
SS	Sacramento Area Sewer District CS	SSSO10912	827650	Certified	Category 3		163962	Sacramento	No	129	-	7/2/2016	Debris-General
SS	Sacramento Area Sewer District CS	SSSO10912	827738	Certified	Category 3		163962	Sacramento	No	129	-	7/2/2016	Debris-General
SS	Sacramento Area Sewer District CS	SSSO10912	827690	Certified	Category 3		164582	Sacramento	No	115	-	7/16/2016	Root intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	827778	Certified	Category 3	164582	Sacramento	No	115	-	7/16/2016	Root intrusion	
SS	El Dorado Hills CS	SSSO10941	826247	Certified	Category 3	EDH-2016-06-05	El Dorado	No	100	-	6/9/2016	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	Hangtown Creek CS	SSSO10965	826193	Certified	Category 3	805 Bluebell Ct.	El Dorado	No	100	-	6/17/2016	Root Intrusion	
SS	Manteca CS	SSSO10993	826399	Certified	Category 3	491 S. Union	San Joaquin	No	97	-	6/5/2016	Grease Deposition (FOG)	
SS	Modesto CS	SSSO11001	825223	Certified	Category 3	2904 Hemminger Way	Stanislaus	No	95	-	6/2/2016	Debris-General	
SS	Sacramento Area Sewer District CS	SSSO10912	827680	Certified	Category 3		164374	Sacramento	No	95	-	7/12/2016	Root intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	827768	Certified	Category 3	164374	Sacramento	No	95	-	7/12/2016	Root intrusion	
SS	Sacramento Area Sewer District CS	SSSO10912	827723	Certified	Category 3		165402	Sacramento	No	95	-	7/30/2016	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	SSSO10912	827811	Certified	Category 3	165402	Sacramento	No	95	-	7/30/2016	Grease deposition (FOG)	
SS	Modesto CS	SSSO11001	825576	Certified	Category 3	2717 Palamino Ln	Stanislaus	No	90	-	6/3/2016	Grease Deposition (FOG)	
SF	Yosemite Valley CS	SSSO10774	825443	Certified	Category 3	Intersection of Hwy 140/120 VAW Manhole # 53	Mariposa	No	80	-	6/7/2016	Other (specify below)	
SS	City Of Auburn CS	SSSO10722	826451	Certified	Category 3	130 Hillmont ST SSO	Placer	No	75	-	7/5/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	SSSO10912	826761	Certified	Category 3		161818	Sacramento	No	72	-	6/7/2016	Root intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	826746	Certified	Category 3		161457	Sacramento	No	68	-	6/1/2016	Debris-General
SS	Sacramento Area Sewer District CS	SSSO10912	827652	Certified	Category 3		163967	Sacramento	No	60	-	7/3/2016	Root intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	827740	Certified	Category 3		163967	Sacramento	No	60	-	7/3/2016	Root intrusion
SS	Sacramento Area Sewer District CS	SSSO10912	826782	Certified	Category 3		162574	Sacramento	No	52	-	6/18/2016	Grease deposition (FOG)
SS	Davis CS	SSSO10921	825325	Certified	Category 3	1013 Villanova Drive	Yolo	No	50	-	6/8/2016	Root Intrusion	
SS	Davis CS	SSSO10921	825232	Certified	Category 3	1320 Caeceres Court	Yolo	No	40	-	6/5/2016	Debris-General	
SF	Cedar Grove CS	SSSO11543	826469	Certified	Category 3	Up stream of Cedar Grove Pre-treatment plant	Fresno	No	40	-	6/10/2016	Debris-Rags	
SS	Sacramento Area Sewer District CS	SSSO10912	826754	Certified	Category 3		161729	Sacramento	No	35	-	6/5/2016	Root intrusion
SF	City Of Bakersfield CS	SSSO10717	825802	Certified	Category 3	2540 Olive St	Kern	No	35	-	6/20/2016	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	SSSO10912	826791	Certified	Category 3		163482	Sacramento	No	33	-	6/23/2016	Root intrusion
SS	City Of Antioch CS	SSSO10890	826893	Certified	Category 3	618 W 7th St antioch Ca	Contra Costa	No	33	-	6/28/2016	Debris-General	
SS	Easterly CS	SSSO10938	826728	Certified	Category 3	340 Elizabeth st	Solano	No	33	-	7/28/2016	Debris-General	
SS	Sacramento Area Sewer District CS	SSSO10912	826777	Certified	Category 3		162221	Sacramento	No	30	-	6/13/2016	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	
SS	Sacramento Area Sewer District CS	555010912	826786	Certified	Category 3		162685	Sacramento	No	30	-	6/21/2016	Root Intrusion
SS	Hangtown Creek CS	555010965	826197	Certified	Category 3	2965 Bedford	El Dorado	No	30	-	6/28/2016	Vandalism	
SF	Cedar Grove CS	555011543	826657	Certified	Category 3	Cedar Grove Highway Manhole July 9	Fresno	No	30	-	7/9/2016	Debris from Construction	
SR	Susanville Csd CS	655011117	826060	Certified	Category 3	35 BROOKWOOD DRIVE, SUSANVILLE, CA	Lassen	No	25	-	7/3/2016	Debris from Lateral	
SS	Sacramento Area Sewer District CS	555010912	827716	Certified	Category 3		165118	Sacramento	No	25	-	7/26/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827804	Certified	Category 3	165118	Sacramento	No	25	-	7/26/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826801	Certified	Category 3		163816	Sacramento	No	23	-	6/27/2016	Root Intrusion
SS	City of Stockton MUD CS	555011433	826322	Certified	Category 3	420 West Flora St	San Joaquin	No	23	-	7/12/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827729	Certified	Category 3		165487	Sacramento	No	23	-	7/30/2016	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	555010912	827817	Certified	Category 3	165487	Sacramento	No	23	-	7/30/2016	Pipe Structural Problem/Failure	
SS	Sacramento Area Sewer District CS	555010912	826764	Certified	Category 3		161956	Sacramento	No	22	-	6/8/2016	Root Intrusion
SS	City of Stockton MUD CS	555011433	826258	Certified	Category 3	314 El Camino Av	San Joaquin	No	21	-	7/7/2016	Grease Deposition (FOG)	
SS	City of Stockton MUD CS	555011433	826343	Certified	Category 3	49 W. Yokuts Ave.	San Joaquin	No	20	-	7/13/2016	Root Intrusion	
SS	Dry Creek CS	555010935	826874	Certified	Category 3	1402 Crestmont	Placer	No	20	-	7/26/2016	CS Maintenance Caused Spill/Damage	
SF	City Of Bakersfield CS	555010717	826898	Certified	Category 3	Alley on 30th St just W/O Pine St	Kern	No	20	-	7/31/2016	Grease Deposition (FOG)	
SF	Groveland CS	555010961	825505	Certified	Category 3	12546 fountain circle Groveland Ca 95321	Tuolumne	No	18	-	6/16/2016	Debris from Lateral	
SS	City of Stockton MUD CS	555011433	826642	Certified	Category 3	119 Sequoia Ct	San Joaquin	No	18	-	7/23/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827684	Certified	Category 3		164435	Sacramento	No	17	-	7/13/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827772	Certified	Category 3	164435	Sacramento	No	17	-	7/13/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827698	Certified	Category 3		164679	Sacramento	No	17	-	7/19/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827786	Certified	Category 3	164679	Sacramento	No	17	-	7/19/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	827703	Certified	Category 3		164921	Sacramento	No	17	-	7/22/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827791	Certified	Category 3	164921	Sacramento	No	17	-	7/22/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827728	Certified	Category 3		165417	Sacramento	No	17	-	7/31/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827816	Certified	Category 3	165417	Sacramento	No	17	-	7/31/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826751	Certified	Category 3		161647	Sacramento	No	16	-	6/3/2016	Debris-General
SS	City of Stockton MUD CS	555011433	825392	Certified	Category 3	6302 Kermit Ln.	San Joaquin	No	16	-	6/8/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827655	Certified	Category 3		163972	Sacramento	No	16	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827743	Certified	Category 3		163972	Sacramento	No	16	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826758	Certified	Category 3		161798	Sacramento	No	15	-	6/6/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826769	Certified	Category 3		162087	Sacramento	No	15	-	6/9/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826804	Certified	Category 3		163848	Sacramento	No	15	-	6/30/2016	Vandalism
SS	Sacramento Area Sewer District CS	555010912	827645	Certified	Category 3		163941	Sacramento	No	15	-	7/1/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827733	Certified	Category 3		163941	Sacramento	No	15	-	7/1/2016	Root Intrusion
SS	City of Woodland CS	555010903	826938	Certified	Category 3	1027 Elliot St	Yolo	No	15	-	7/20/2016	Pipe Structural Problem/Failure	
SS	Sacramento Area Sewer District CS	555010912	827709	Certified	Category 3		165011	Sacramento	No	15	-	7/24/2016	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	827797	Certified	Category 3	165011	Sacramento	No	15	-	7/24/2016	Grease deposition (FOG)	
SS	Sacramento Area Sewer District CS	555010912	826784	Certified	Category 3		162653	Sacramento	No	14	-	6/20/2016	Root Intrusion
SS	City of Stockton MUD CS	555011433	825164	Certified	Category 3	9209 Kelley Dr	San Joaquin	No	13	-	6/2/2016	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	Sacramento Area Sewer District CS	555010912	826760	Certified	Category 3		161813	Sacramento	No	13	-	6/6/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826775	Certified	Category 3		162153	Sacramento	No	13	-	6/12/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826785	Certified	Category 3		162659	Sacramento	No	13	-	6/20/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827646	Certified	Category 3		163943	Sacramento	No	13	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827734	Certified	Category 3		163943	Sacramento	No	13	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826748	Certified	Category 3		161490	Sacramento	No	12	-	6/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826763	Certified	Category 3		161840	Sacramento	No	12	-	6/7/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826799	Certified	Category 3		163786	Sacramento	No	12	-	6/29/2016	Root Intrusion
SS	City Of Antioch CS	555010890	826896	Certified	Category 3	106 W 10th St. Antioch CA	Contra Costa	No	12	-	7/15/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	826773	Certified	Category 3		162147	Sacramento	No	11	-	6/12/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826774	Certified	Category 3		162148	Sacramento	No	11	-	6/12/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826787	Certified	Category 3		162708	Sacramento	No	11	-	6/21/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827674	Certified	Category 3		164283	Sacramento	No	11	-	7/11/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827762	Certified	Category 3	164283	Sacramento	No	11	-	7/11/2016	Debris-General	
SS	Modesto CS	555011001	826509	Certified	Category 3	304 La Loma	Stanislaus	No	11	-	7/16/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826756	Certified	Category 3		161775	Sacramento	No	10	-	6/6/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827662	Certified	Category 3		164041	Sacramento	No	10	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827750	Certified	Category 3	164041	Sacramento	No	10	-	7/5/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827665	Certified	Category 3		164175	Sacramento	No	10	-	7/7/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827753	Certified	Category 3	164175	Sacramento	No	10	-	7/7/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827668	Certified	Category 3		164254	Sacramento	No	10	-	7/9/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827756	Certified	Category 3	164254	Sacramento	No	10	-	7/9/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827686	Certified	Category 3		164517	Sacramento	No	10	-	7/15/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827774	Certified	Category 3	164517	Sacramento	No	10	-	7/15/2016	Debris-General	
SS	San Andreas CS	555011048	827602	Certified	Category 3	294 Pine St	Calaveras	No	10	-	7/27/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826752	Certified	Category 3		161669	Sacramento	No	9	-	6/3/2016	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	826755	Certified	Category 3		161751	Sacramento	No	9	-	6/6/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826792	Certified	Category 3		163581	Sacramento	No	9	-	6/24/2016	Root Intrusion
SS	City of Sacramento Utilities CS	555010901	825712	Certified	Category 3	938 LOS ROBLES BLVD, SACRAMENTO, CA	Sacramento	No	9	-	6/25/2016	Debris-Rags	
SS	Sacramento Area Sewer District CS	555010912	827659	Certified	Category 3		164002	Sacramento	No	9	-	7/1/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827747	Certified	Category 3	164002	Sacramento	No	9	-	7/1/2016	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	
SS	Sacramento Area Sewer District CS	555010912	827661	Certified	Category 3		164039	Sacramento	No	9	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827749	Certified	Category 3	164039		Sacramento	No	9	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827664	Certified	Category 3		164111	Sacramento	No	9	-	7/6/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827752	Certified	Category 3	164111		Sacramento	No	9	-	7/6/2016	Debris-General
SS	Deer Creek CS	555010923	826407	Certified	Category 3	DC-2016-06-07		El Dorado	No	8	-	6/2/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826776	Certified	Category 3		162154	Sacramento	No	8	-	6/12/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826798	Certified	Category 3		163767	Sacramento	No	8	-	6/28/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827676	Certified	Category 3		164306	Sacramento	No	8	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827764	Certified	Category 3	164306		Sacramento	No	8	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827682	Certified	Category 3		164426	Sacramento	No	8	-	7/12/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827770	Certified	Category 3	164426		Sacramento	No	8	-	7/12/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827705	Certified	Category 3		164948	Sacramento	No	8	-	7/22/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827793	Certified	Category 3	164948		Sacramento	No	8	-	7/22/2016	Root Intrusion
SS	City of Stockton MUD CS	555011433	826703	Certified	Category 3	1601 S San Joaquin St		San Joaquin	No	8	-	7/26/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827657	Certified	Category 3		163988	Sacramento	No	7	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827745	Certified	Category 3		163988	Sacramento	No	7	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827669	Certified	Category 3		164256	Sacramento	No	7	-	7/9/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827757	Certified	Category 3	164256		Sacramento	No	7	-	7/9/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827707	Certified	Category 3		164975	Sacramento	No	7	-	7/22/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827795	Certified	Category 3	164975		Sacramento	No	7	-	7/22/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827720	Certified	Category 3		165377	Sacramento	No	7	-	7/29/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827808	Certified	Category 3		165377	Sacramento	No	7	-	7/29/2016	Root Intrusion
SS	City of Stockton MUD CS	555011433	825266	Certified	Category 3	536 N Stanislaus St.		San Joaquin	No	6	-	6/6/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826771	Certified	Category 3		162105	Sacramento	No	6	-	6/10/2016	Root Intrusion
SS	City Of Antioch CS	555010890	825693	Certified	Category 3	2475 Grimsby Dr. Antioch Ca.		Contra Costa	No	6	-	6/13/2016	Pipe Structural Problem/Failure - Installation
SS	Sacramento Area Sewer District CS	555010912	826783	Certified	Category 3		162595	Sacramento	No	6	-	6/20/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826790	Certified	Category 3		163480	Sacramento	No	6	-	6/23/2016	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	826800	Certified	Category 3		163806	Sacramento	No	6	-	6/29/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827644	Certified	Category 3		163916	Sacramento	No	6	-	7/1/2016	Vandalism
SS	Sacramento Area Sewer District CS	555010912	827732	Certified	Category 3		163916	Sacramento	No	6	-	7/1/2016	Vandalism
SS	Sacramento Area Sewer District CS	555010912	827673	Certified	Category 3		164273	Sacramento	No	6	-	7/11/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827761	Certified	Category 3	164273		Sacramento	No	6	-	7/11/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827683	Certified	Category 3		164432	Sacramento	No	6	-	7/13/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827771	Certified	Category 3	164432		Sacramento	No	6	-	7/13/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827685	Certified	Category 3		164490	Sacramento	No	6	-	7/14/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827773	Certified	Category 3	164490		Sacramento	No	6	-	7/14/2016	Debris-General
SS	City of Stockton MUD CS	555011433	826841	Certified	Category 3	8411 Trianon Ct		San Joaquin	No	6	-	7/28/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827724	Certified	Category 3		165404	Sacramento	No	6	-	7/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827812	Certified	Category 3	165404		Sacramento	No	6	-	7/30/2016	Root Intrusion
SS	Dry Creek CS	555010912	826670	Certified	Category 3	417 Shannon		Placer	No	5	-	6/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826778	Certified	Category 3		162452	Sacramento	No	5	-	6/16/2016	Vandalism
SS	Sacramento Area Sewer District CS	555010912	826780	Certified	Category 3		162572	Sacramento	No	5	-	6/17/2016	Debris from Lateral
SS	Sacramento Area Sewer District CS	555010912	826781	Certified	Category 3		162572	Sacramento	No	5	-	6/18/2016	Root Intrusion
5F	City of Fresno CS	555011202	825758	Certified	Category 3	517 Fresno St.		Fresno	No	5	-	6/25/2016	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	826796	Certified	Category 3		163706	Sacramento	No	5	-	6/28/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826797	Certified	Category 3		163763	Sacramento	No	5	-	6/28/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826802	Certified	Category 3		163817	Sacramento	No	5	-	6/29/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826803	Certified	Category 3		163834	Sacramento	No	5	-	6/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827647	Certified	Category 3		163954	Sacramento	No	5	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827735	Certified	Category 3		163954	Sacramento	No	5	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827653	Certified	Category 3		163970	Sacramento	No	5	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827741	Certified	Category 3	163970		Sacramento	No	5	-	7/4/2016	Root Intrusion
SS	Davis CS	555010921	826242	Certified	Category 3	113 D street		Yolo	No	5	-	7/10/2016	CS Maintenance Caused Spill/Damage
SS	Sacramento Area Sewer District CS	555010912	827672	Certified	Category 3		164267	Sacramento	No	5	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827760	Certified	Category 3	164267		Sacramento	No	5	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827679	Certified	Category 3		164362	Sacramento	No	5	-	7/11/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827767	Certified	Category 3	164362		Sacramento	No	5	-	7/11/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827687	Certified	Category 3		164529	Sacramento	No	5	-	7/14/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827775	Certified	Category 3	164529		Sacramento	No	5	-	7/14/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827688	Certified	Category 3		164541	Sacramento	No	5	-	7/15/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827776	Certified	Category 3	164541		Sacramento	No	5	-	7/15/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827697	Certified	Category 3		164644	Sacramento	No	5	-	7/18/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827785	Certified	Category 3	164644		Sacramento	No	5	-	7/18/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827700	Certified	Category 3		164747	Sacramento	No	5	-	7/19/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827788	Certified	Category 3	164747		Sacramento	No	5	-	7/19/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827710	Certified	Category 3		165012	Sacramento	No	5	-	7/24/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827798	Certified	Category 3	165012		Sacramento	No	5	-	7/24/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827712	Certified	Category 3		165056	Sacramento	No	5	-	7/25/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827715	Certified	Category 3		165082	Sacramento	No	5	-	7/25/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827800	Certified	Category 3	165056		Sacramento	No	5	-	7/25/2016	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	
SS	Sacramento Area Sewer District CS	555010912	827803	Certified	Category 3	165082	Sacramento	No	5	-	7/25/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827725	Certified	Category 3		165406	Sacramento	No	5	-	7/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827813	Certified	Category 3	165406	Sacramento	No	5	-	7/30/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826750	Certified	Category 3		161642	Sacramento	No	4	-	6/3/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826766	Certified	Category 3		161966	Sacramento	No	4	-	6/9/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826767	Certified	Category 3		161967	Sacramento	No	4	-	6/9/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826793	Certified	Category 3		163634	Sacramento	No	4	-	6/25/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827643	Certified	Category 3		163913	Sacramento	No	4	-	7/1/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827731	Certified	Category 3		163913	Sacramento	No	4	-	7/1/2016	Debris-General
SS	City of Stockton MUD CS	555011433	825943	Certified	Category 3	1438 E Hazelton Av	San Joaquin	No	4	-	7/1/2016	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	555010912	827649	Certified	Category 3		163960	Sacramento	No	4	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827737	Certified	Category 3		163960	Sacramento	No	4	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827658	Certified	Category 3		163993	Sacramento	No	4	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827746	Certified	Category 3	163993	Sacramento	No	4	-	7/4/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827660	Certified	Category 3		164034	Sacramento	No	4	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827748	Certified	Category 3	164034	Sacramento	No	4	-	7/5/2016	Root Intrusion	
SS	City of Stockton MUD CS	555011433	826055	Certified	Category 3	541 E Oak St	San Joaquin	No	4	-	7/5/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	827666	Certified	Category 3		164177	Sacramento	No	4	-	7/7/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827754	Certified	Category 3	164177	Sacramento	No	4	-	7/7/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827678	Certified	Category 3		164353	Sacramento	No	4	-	7/12/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827766	Certified	Category 3	164353	Sacramento	No	4	-	7/12/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827714	Certified	Category 3		165079	Sacramento	No	4	-	7/25/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827802	Certified	Category 3	165079	Sacramento	No	4	-	7/25/2016	Debris-General	
SS	City of Stockton MUD CS	555011433	826704	Certified	Category 3	3319 Bellview Av	San Joaquin	No	4	-	7/25/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	827717	Certified	Category 3		165127	Sacramento	No	4	-	7/26/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827805	Certified	Category 3	165127	Sacramento	No	4	-	7/26/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	826759	Certified	Category 3		161801	Sacramento	No	3	-	6/6/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826762	Certified	Category 3		161820	Sacramento	No	3	-	6/7/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826768	Certified	Category 3		162080	Sacramento	No	3	-	6/9/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	826772	Certified	Category 3		162143	Sacramento	No	3	-	6/11/2016	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	555010912	826779	Certified	Category 3		162485	Sacramento	No	3	-	6/16/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826795	Certified	Category 3		163643	Sacramento	No	3	-	6/26/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827648	Certified	Category 3		163955	Sacramento	No	3	-	7/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827736	Certified	Category 3		163955	Sacramento	No	3	-	7/2/2016	Root Intrusion
SS	Deer Creek CS	555010923	826918	Certified	Category 3	DC-2016-07-08	El Dorado	No	3	-	7/3/2016	Debris-General	
SS	Sacramento Area Sewer District CS	555010912	827651	Certified	Category 3		163963	Sacramento	No	3	-	7/3/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827739	Certified	Category 3		163963	Sacramento	No	3	-	7/3/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827656	Certified	Category 3		163982	Sacramento	No	3	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827744	Certified	Category 3		163982	Sacramento	No	3	-	7/5/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827670	Certified	Category 3		164261	Sacramento	No	3	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827671	Certified	Category 3		164264	Sacramento	No	3	-	7/10/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827758	Certified	Category 3	164261	Sacramento	No	3	-	7/10/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827759	Certified	Category 3	164264	Sacramento	No	3	-	7/10/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827675	Certified	Category 3		164285	Sacramento	No	3	-	7/11/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827763	Certified	Category 3	164285	Sacramento	No	3	-	7/11/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827694	Certified	Category 3		164592	Sacramento	No	3	-	7/17/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827782	Certified	Category 3	164592	Sacramento	No	3	-	7/17/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827713	Certified	Category 3		165060	Sacramento	No	3	-	7/24/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827801	Certified	Category 3	165060	Sacramento	No	3	-	7/24/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827719	Certified	Category 3		165276	Sacramento	No	3	-	7/28/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827807	Certified	Category 3	165276	Sacramento	No	3	-	7/28/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827721	Certified	Category 3		165394	Sacramento	No	3	-	7/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827726	Certified	Category 3		165407	Sacramento	No	3	-	7/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827809	Certified	Category 3	165394	Sacramento	No	3	-	7/30/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827814	Certified	Category 3	165407	Sacramento	No	3	-	7/30/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	827727	Certified	Category 3		165414	Sacramento	No	3	-	7/31/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827815	Certified	Category 3	165414	Sacramento	No	3	-	7/31/2016	Root Intrusion	
SS	Sacramento Area Sewer District CS	555010912	826747	Certified	Category 3		161482	Sacramento	No	2	-	6/2/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826753	Certified	Category 3		161701	Sacramento	No	2	-	6/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826757	Certified	Category 3		161781	Sacramento	No	2	-	6/6/2016	Operator error
SS	Sacramento Area Sewer District CS	555010912	826789	Certified	Category 3		163474	Sacramento	No	2	-	6/23/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826794	Certified	Category 3		163639	Sacramento	No	2	-	6/26/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	826805	Certified	Category 3		163870	Sacramento	No	2	-	6/30/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827654	Certified	Category 3		163972	Sacramento	No	2	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827742	Certified	Category 3		163972	Sacramento	No	2	-	7/4/2016	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	827667	Certified	Category 3		164205	Sacramento	No	2	-	7/8/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827755	Certified	Category 3	164205	Sacramento	No	2	-	7/8/2016	Debris-General	
SS	City of Sacramento Utilities CS	555010901	826282	Certified	Category 3	4650 77th ST, SACRAMENTO, CA	Sacramento	No	2	-	7/9/2016	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	555010912	827677	Certified	Category 3		164313	Sacramento	No	2	-	7/11/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827765	Certified	Category 3	164313	Sacramento	No	2	-	7/11/2016	Debris-General	

Region	Collection System	WDD	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
SS	City Of Antioch CS	555010890	826894	Certified	Category 3	617 w 7th st antioch ca	Contra Costa	No	2	-	7/13/2016	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	827681	Certified	Category 3		164392 Sacramento	No	2	-	7/13/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827769	Certified	Category 3	164392	Sacramento	No	2	-	7/13/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827689	Certified	Category 3		164579 Sacramento	No	2	-	7/16/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827777	Certified	Category 3	164579	Sacramento	No	2	-	7/16/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827692	Certified	Category 3		164585 Sacramento	No	2	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827780	Certified	Category 3	164585	Sacramento	No	2	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827696	Certified	Category 3		164642 Sacramento	No	2	-	7/18/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827784	Certified	Category 3	164642	Sacramento	No	2	-	7/18/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827699	Certified	Category 3		164707 Sacramento	No	2	-	7/19/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827787	Certified	Category 3	164707	Sacramento	No	2	-	7/19/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827701	Certified	Category 3		164883 Sacramento	No	2	-	7/21/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827789	Certified	Category 3	164883	Sacramento	No	2	-	7/21/2016	Root intrusion
SS	Dry Creek CS	555010935	827325	Certified	Category 3	854 Shearer St	Placer	No	2	-	7/22/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827718	Certified	Category 3		165137 Sacramento	No	2	-	7/26/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827806	Certified	Category 3	165137	Sacramento	No	2	-	7/26/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827722	Certified	Category 3		165401 Sacramento	No	2	-	7/30/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827810	Certified	Category 3	165401	Sacramento	No	2	-	7/30/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	826749	Certified	Category 3		161536 Sacramento	No	1	-	6/2/2016	Operator error
SS	El Dorado Hills CS	555010941	826244	Certified	Category 3	EDH-2016-06-04	El Dorado	No	1	-	6/3/2016	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
SS	Sacramento Area Sewer District CS	555010912	826765	Certified	Category 3		161974 Sacramento	No	1	-	6/8/2016	Root intrusion
SS	City of Stockton MUD CS	555011433	825391	Certified	Category 3	531 N. Laurel St.	San Joaquin	No	1	-	6/8/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	826788	Certified	Category 3		163407 Sacramento	No	1	-	6/22/2016	Operator error
SS	City of Stockton MUD CS	555011433	825714	Certified	Category 3	537 E. Oak St.	San Joaquin	No	1	-	6/24/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827642	Certified	Category 3		163885 Sacramento	No	1	-	7/1/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827720	Certified	Category 3		163885 Sacramento	No	1	-	7/1/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827663	Certified	Category 3		164074 Sacramento	No	1	-	7/6/2016	Operator error
SS	Sacramento Area Sewer District CS	555010912	827751	Certified	Category 3	164074	Sacramento	No	1	-	7/6/2016	Operator error
SS	Sacramento Area Sewer District CS	555010912	827691	Certified	Category 3		164584 Sacramento	No	1	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827693	Certified	Category 3		164591 Sacramento	No	1	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827779	Certified	Category 3	164584	Sacramento	No	1	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827781	Certified	Category 3	164591	Sacramento	No	1	-	7/17/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827702	Certified	Category 3		164909 Sacramento	No	1	-	7/21/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827790	Certified	Category 3	164909	Sacramento	No	1	-	7/21/2016	Debris-General
SS	Sacramento Area Sewer District CS	555010912	827704	Certified	Category 3		164928 Sacramento	No	1	-	7/22/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827706	Certified	Category 3		164963 Sacramento	No	1	-	7/22/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827792	Certified	Category 3	164928	Sacramento	No	1	-	7/22/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827794	Certified	Category 3	164963	Sacramento	No	1	-	7/22/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827708	Certified	Category 3		164986 Sacramento	No	1	-	7/23/2016	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	827796	Certified	Category 3	164986	Sacramento	No	1	-	7/23/2016	Root intrusion