

California Regional Water Quality Control Board
Central Valley Region

Pamela Creedon, Executive Officer



EXECUTIVE OFFICER'S REPORT
December 10/11, 2015

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SUCCESS STORIES

PPG Inc., Fresno, Fresno County

A no further action determination was issued on 3 September 2015 for a diesel fuel release at PPG Inc., 3333 S. Peach Avenue, Fresno, Fresno County. The release occurred during filling of an 170,000 gallon aboveground storage tank. The released fuel degraded shallow soil in the vicinity of the tank. Soil that was accessible was excavated after the release. An assessment was conducted to delineate the lateral and vertical extent of impacts to soil. A bioventing system was installed and operated for approximately six years to remediate the degraded soil. Soil confirmation samples were collected to confirm that the bioventing system was effective in remediating the degraded soil. Any remaining degraded soil beneath the aboveground storage tank will be removed when the tank is removed in the future.

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

- **Former Buttonwillow Fire Station, 104 West 2nd Street, Buttonwillow, Kern County**

Two USTs were removed from the site in 1989 and gasoline was detected in soil. About 4.5 tons of impacted soil was removed at that time, and an additional 125 cubic yards were removed in 1991. Subsequent investigations determined groundwater was impacted. Kern County referred the case to the Central Valley Water Board in 2011. Subsequent investigations showed that the areal extent of groundwater pollution was shrinking and the case satisfies the criteria contained in the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 31 August 2015.

- **Alvidres Unocal, 100 West Front Street, Buttonwillow, Kern County**

The site is currently vacant. Two USTs were removed in 1997 and gasoline was detected in soil. Subsequent investigations determined the release had impacted groundwater. Kern County referred the site to the Central Valley Water Board in July 2011. Soil vapor extraction was performed between May 2011 and February 2013, and removed an estimated 26,000 pounds (4,200 gallons) of gasoline. Subsequent investigations showed that the areal extent of groundwater pollution was shrinking and the case satisfies the criteria contained in the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 13 October 2015.

- **Flyers #223, 2023 Mettler Frontage Road West, Mettler, Kern County**

The site is an active fueling facility. During 2014 the dispensers were upgraded and diesel was detected in soil. An investigation determined that the release had not impacted groundwater. About 400 cubic yards of soil and pea gravel, including contaminated soil, were excavated. Further source mass reduction was not practicable. The case satisfies the criteria contained in the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 13 October 2015.

- **Aquino's Exxon, 441 West Robertson Boulevard, Chowchilla, Madera County**

Five USTs were removed in 1994 and gasoline was detected in soil. Subsequent investigations determined that soil and groundwater were impacted and that floating product was present. A soil vapor assessment

determined that indoor air quality in nearby structures was not threatened by the release. Soil vapor extraction was performed between 2010 and 2014 and removed an estimated 117,000 pounds (19,000 gallons) of gasoline. Air sparging was performed between 2011 and 2014. When groundwater was last sampled in 2014 gasoline constituents were confined primarily to the source area. The case satisfies the criteria of the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 13 October 2015.

A & R Gas-N-Go, 300 East Ninth Street, Madera, Madera County

In 1997 three USTs were removed and gasoline was detected in soil. An investigation in 2014 did not detect gasoline in soil or soil vapor. The case satisfies the criteria of the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 9 September 2015.

J & V Farms (Site 4), 25409 Avenue 8, Madera, Madera County

Three USTs were removed in 1991 and gasoline was detected in soil. In 2013 Madera County referred the site to the Central Valley Water Board for regulatory oversight. An investigation in 2015 did not detect gasoline in soil. The case satisfies the principles contained in the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 14 October 2015.

Former Langendorf Bakery, 525 North Burke Street, Visalia, Tulare County

In 1990 one UST was removed and gasoline was detected in soil. A 1991 investigation detected gasoline in soil to a depth of 20 feet. A 2014 investigation detected low concentrations of gasoline in soil vapor but not in soil. The case satisfies the criteria contained in the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, and was closed on 27 August 2015.

b. **REDDING OFFICE**

CHP Alturas Area Office, 905 N West C Street, Alturas, Modoc County, Case No. 250014

In October 2013, an 8,000-gallon UST and dispenser were removed from a subsurface concrete block vault located west of the office building. A grab groundwater sample collected immediately outside the vault reported methyl tert-butyl ether (MtBE) and tert-butyl alcohol (TBA) at 140 and 45 ug/L, respectively. In December 2013, the Discharger filed an Unauthorized Release Report with Modoc County Environmental Health Department. In February 2015, seven soil borings and three temporary well points were installed at the site. No petroleum hydrocarbons were detected in any soil samples. TBA was detected in two temporary well points at concentrations below the Water Quality Objective (WQO). Remaining impacts to groundwater are spatially limited and natural attenuation processes will likely continue to degrade any low-level residual petroleum hydrocarbons. Furthermore, there are no sensitive receptors located within 1,000 feet of the site. The case satisfies the criteria of the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy (LTCP), and was closed in October 2015.

Firestone Beacon, 449 Main Street, Red Bluff, Tehama County, Case No. 520026

This case invoices a former gas station with tanks found to be leaking during a tank integrity test in 1987. The UST system and dispensers were removed in 1988, and petroleum hydrocarbon impacts to soil and groundwater were observed. The site underwent extensive investigation and remediation between 1989 and 2014. Approximately 1576 pounds of petroleum hydrocarbons were removed through in-situ chemical oxidation, oxygen sparging, source zone excavation, and natural attenuative processes. Confirmation sampling conducted in the fourth quarter of 2014 confirmed that pollutant rebound had not occurred and that remaining concentrations continue to decline. While pollution remains on-site in soil and groundwater, WQOs are estimated to be met in a reasonable timeframe and remaining pollution does not pose a significant threat to human health or the environment. Staff closed the case in September 2015.

Former Unocal 76, 1105 Park Avenue, Chico, Butte County, Case No. 040299

The case invoices an active automotive fueling station and convenience store. Fueling operations began in the 1940s. In 1987, five USTs were abandoned in place and two USTs were removed under the oversight of the City of Chico Fire Chief. Three 10,000-gallon USTs were subsequently installed in 1987 and are currently in use. On 25 April 2014, the Discharger submitted an Underground Storage Tank Unauthorized Release Report (URR) to Butte County Department of Environmental Health. Between March 2014 and September 2015, the Discharger performed subsurface investigations using direct push methods and reported petroleum

hydrocarbons and polychlorinated biphenyls (PCBs) in soil and groundwater samples at concentrations above WQOs. Although petroleum constituent concentrations exceeded WQOs, the site meets the closure eligibility requirements of the LTCP with the exception of PCBs. Based on site-specific soil data and the hydraulic parameters derived from a neighboring UST investigation, staff estimated the velocity of PCB migration is low (approximately 1.5×10^{-4} feet per year). Therefore, it is unlikely that the pollutants will affect drinking water supply wells or other receptors. On 5 October 2015, staff notified DTSC in writing of the PCBs at this site. Staff closed the case in October 2015.

Premier West Bank, 1201 Solano Street, Corning, Tehama County, Case No. 520143

A 1,500-gallon capacity UST previously used to contain heating oil was discovered during demolition of a former bank building in November 2007. Petroleum hydrocarbons were reported in soil within the UST excavation in December 2007. Tehama County Department of Environmental Health referred the case to the Central Valley Regional Water Quality Control Board on 13 June 2013. The Discharger installed a soil vapor probe and three groundwater monitoring wells. On 28 March 2014, the Discharger submitted a Preliminary Investigation and Evaluation Report indicating a maximum concentration of 17,000 ug/L diesel range hydrocarbons in groundwater. No polycyclic aromatic hydrocarbons (PAH) were reported. Staff closed the case under the LTCP in October 2015.

Vaughns Market, 6278 Parallel Road, Anderson, Shasta County, Case No. 450247

The case is a vacant building formerly used as a grocery store and retail fuel service facility. An unauthorized release from three 8,000-gallon USTs, associated piping, and dispenser was discovered during UST upgrades in 1998. A grab groundwater sample detected gasoline range petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylenes, and MtBE. Three monitoring wells were installed in 1999 to further assess groundwater impacts. The three USTs were removed from the site in 2005. Confirmation soil samples reported very low levels of gasoline range petroleum hydrocarbons. The site was recalcitrant from 2007 until 2014. Two additional monitoring wells were installed in December 2014. Groundwater samples collected from site wells in December 2014 and March 2015, indicate that there are no longer any groundwater impacts beneath the site. Staff closed the case under the LTCP in October 2015.

Walia's Country Market, 12886 Lake Boulevard, Redding, Shasta County, Case No. 450339

The case was a gas station and convenience store. In 2008, the Shasta County Environmental Health Division (SCEHD) referred the case to the Central Valley Water Board when pollution was discovered during the Phase II investigation. In December 2008, the Central Valley Water Board closed the case after determining that there was no threat to human health or the environment. In May 2015, the SCEHD received a UST Removal/Closure Application from the Discharger. In July 2015, a three compartment UST system (8,000 gallon gasoline, 4,000 gallon gasoline, and 3,000 gallon diesel), piping, and two dispenser islands were removed. No soil impacts were apparent during the investigation. A groundwater sample collected from the tank cavity detected low-level hydrocarbons. SCEHD referred the case to the Central Valley Water Board in August 2015. Staff determined that all detected constituents were well below their respective WQOs and that remaining pollution is likely to be further attenuated by natural processes such as biodegradation, dispersion and absorption to soil particles. Staff closed the case under the LTCP in September 2015.

c. SACRAMENTO OFFICE

Herb's Corner Store, 6 California Street, Valley Springs, Calaveras County

The site's four former USTs were abandoned in-place in 2003 and subsequently removed from the site in February 2015. About 30 tons of petroleum-impacted soil was removed in February 2015 and results of post excavation sampling indicate that residual hydrocarbons had been removed to the extent practicable. Petroleum hydrocarbons were not detected in any groundwater samples collected from site monitoring wells. No domestic wells or surface water bodies are located within 1,000 feet of the site. Remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State. The site was closed on 13 October 2015.

Oliver's Groceries, 15701 Lake Arthur Road, Auburn, Placer County

In August 1999, the Site's USTs, dispensers, and associated piping were removed. About 250 pounds (35 gallons) of petroleum fuel were removed from the Site through remediation, and less than 1 pound is estimated to remain in groundwater. The extent of the petroleum pollution in groundwater is defined and concentrations

are expected to achieve WQOs within 5 years. While groundwater supply wells and a surface water body (Dry Creek) are located within 1,000 feet of the Site, the remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State. The site was closed on 25 August 2015.

California Stop, 2224 Manthey Road, Stockton, San Joaquin County

In 2002, California Stop upgraded their product lines and dispensers and discovered that an unauthorized release of petroleum had occurred from its system. From 2010 to 2013, California Stop removed methyl tertiary butyl ether (MTBE) and gasoline via groundwater extraction, a soil vapor extraction pilot study, and an ozone sparge remediation pilot study. The petroleum pollution in groundwater is stable and constituent concentrations in groundwater have declined over time as a result of active remediation and natural attenuation. The site was closed on 3 September 2015.

Local Agency UST Closures with Concurrence of Board Staff

Sacramento County

Arco Station #662, 1949 Arden Way, Sacramento

SITE CLEANUP-SUCCESSFULLY CLOSED-NO FURTHER ACTION REQUIRED

Former Barber Cashew Supply Corporation, Maxwell, Colusa County

Decades of poor housekeeping practices at the former fertilizer distribution facility in Maxwell resulted in nitrate and ammonium pollution in soil and groundwater. Union Pacific Railroad (UPRR) took on the responsible party obligation when Barber Cashew Supply Corporation went into bankruptcy. UPRR excavated soil containing nitrogen and planted the site with trees to remove nitrogen from groundwater with phytoremediation. On 18 September 2015, the Executive Officer determined that no further action was required at the site. (AST)

The Former Natomas Air Park Meets Fuel Cleanup Standards, Sacramento County

A leaking fuel tank was replaced in 1982. Beazer Homes took responsibility for remediating fuel contamination on property formerly known as parcels 30 and 32. Beazer Homes excavated an extensive amount of soil, and operated a soil vapor extraction/air sparging groundwater treatment system. These actions removed the source of the groundwater contamination. Beazer Homes also removed shallow soil containing oil above the odor threshold. Residual groundwater pollution meets the Low Threat Closure Policy Criteria for petroleum. The Executive Officer has requested that Beazer Homes remove the monitoring wells, after which Beazer Homes will receive a no further action determination. (AST)

**STAFF RECOGNITION
FRESNO OFFICE**

OCTOBER

Candidate: Jeff Pyle
Unit: Non-15 WDR Unit
Title: Engineering Geologist
Supervisor: Scott Hatton

Jeff has been an Engineering Geologist in the Fresno office for 10 years and a valuable asset to the Non-15 Waste Discharge Requirements (WDRs) Unit. This past month, he finished up tentative WDRs for a large project and volunteered to incorporate comments received from an Administrative Draft WDR and sent both of them out for public review. He also transitioned to begin drafting another set of tentative WDRs for a different project. Jeff also found time to respond to the public's questions, review files, and have meetings with Dischargers. Jeff is a reliable and professional staff member of our Unit.

**REDDING OFFICE
OCTOBER**

Candidate: Doug Barber
Unit: Redding Office, NPDES Unit
Title: Water Resource Control Engineer
Supervisor: Jeremy Pagan

Doug Barber is a Water Resource Control Engineer working in the NPDES Unit of the Redding Office of the Central Valley Water Board. Doug has been with the Central Valley Water Board for just over one year and in that relatively short time frame has already earned a reputation for being a solid contributor to the agency. Doug has conducted numerous facility inspections, established a good working relationship with his permitted facilities, reviewed technical reports and permit-required deliverables, and is scheduled to work on NPDES permit renewals this year for both the City of Corning and the Sewerage Commission – Oroville Region. From his prior experience as a consulting wastewater treatment design engineer, Doug brings a valuable technical background to the NPDES Unit and is relied upon regularly for his wastewater treatment engineering knowledge and expertise. Doug is a dependable, hard worker, and consistently shows up to work with a good attitude and work ethic, regularly executing tasks and keeping his work load balanced. Doug is a good communicator and does a great job of interacting with the regulated community in various contexts. Doug shows good poise and personality when meeting with NPDES permit holders and also serves as a liaison between the Central Valley Water Board and the regulated community through his involvement with the Northern Sacramento Valley Section of the California Water Environment Association (CWEA). Doug is a tremendously valuable asset to the NPDES Unit and his contributions are greatly appreciated.

**SACRAMENTO OFFICE
OCTOBER**

Candidate: Emily Cushman
Unit: Storage Tank Enforcement Unit 1
Title: Engineering Geologist
Supervisor: Joe Mello

Emily began working for the Regional Board two years ago as a new graduate of UC-Davis. Emily is always looking to take on a heavier workload and is very eager to work with Responsible Parties to find amicable solutions for moving UST cases along.

During Emily's first full year, she successfully brought 25% of her underground storage tank cases to closure; nearly double the statewide closure rate. As Emily has closed cases and come up to speed on others her caseload has been augmented twice since July, adding fifteen UST cases in July and five Site Cleanup cases to her workload during the last week of September. While seeing sites through cleanup and ultimate closure is an

important aspect of her job, she was also able to move a site from site assessment to remediation last quarter and finish a draft enforcement order. She has exceeded our expectations of a recent graduate and is more than deserving of this recognition.

Candidate: Cindy Au Yeung
Unit: Ag. Regulatory Planning/CV-SALTS
Title: Environmental Scientist
Supervisor: Anne Littlejohn

Cindy joined Region 5's Agricultural Regulatory Planning Unit in 2013 and has since proven to be an invaluable member of the team.

This past year, Cindy took the lead on developing key technical water quality monitoring reports that supported a recently adopted Basin Plan Amendment to remove the Municipal and Domestic Supply (MUN) beneficial use from twelve constructed and/or modified agricultural water bodies in the Sacramento River Basin. Cindy has also just completed a comprehensive water quality monitoring and GIS map repository to assist with the region-wide evaluation of the MUN use in Ag dominated water bodies. Cindy's work not only benefits current basin planning projects, but serves as a vital resource to help staff across programs understand the hydrography of the region and be able to identify potential data gaps in beneficial use assessment. This information in turn fosters the development of collaborative efforts and robust monitoring and surveillance programs.

Cindy is a hardworking and dedicated Environmental Scientist who consistently goes above and beyond her duties to find creative solutions and deliver great service. She coordinates well with both staff and stakeholders, while maintaining a positive outlook and an eagerness to take on new challenges. It is a pleasure to work with Cindy and she is well deserving of the recognition award.

ENFORCEMENT

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action. This section of the Executive Offer'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. **Cleanup & Abatement Order (CAO)**

On 5 October, the Assistant Executive Officer issued a CAO to Soper Family 2004 Trust (Trust) in Lake County. The Trust removed a walnut orchard, leaving only stumps in place with no cover crop or other well-established vegetation cover where orchard removal took place. The Lake County Department of Water Resources notified Central Valley Water Board staff of erosive activities at the site and expressed concerns about site conditions that had already led to sediment-laden discharges and deposition on the public road that intersects the site. In addition, the site has a steep grade with drainage to Clear Lake. The disturbed earth has created the potential for sediment discharges to surface waters during the upcoming wet season. The CAO requires the Trust to submit a Sediment & Erosion Control Plan and a Completion Report to document site improvements based on a defined time schedule.

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

San Joaquin County Environmental Crimes Task Force Meeting

On 5 October 2015 Central Valley Regional Board (Regional Board) staff attended the Environmental Crimes Task Force meeting for San Joaquin County in Stockton. The meeting was organized by the District Attorney's office for San Joaquin County and attended by several local and state environmental crimes enforcement agencies in addition to the Regional and State Boards. Regional Board staff will continue to endeavor to collaborate with other environmental protection agencies to bolster efforts to protect the waters of the Central Valley.

- **Release of Highly Chlorinated Wastewater**

On 9 October 2015, the City of Vacaville discharged 226,930 gallons of super chlorinated final effluent from the Easterly Wastewater Treatment Plant. The spill was caused by a power failure which caused the effluent monitoring system to shut down. The City did not have a backup to this system. Plant operations staff verified that the hypochlorite and bisulfite pumps were not operating and the diversion gate to the emergency storage basin had not closed, resulting in the super chlorinated release to Old Alamo Creek. The discharged volume contained chlorine averaging 3.3 mg/L for approximately 49 minutes and entered Old Alamo Creek. This discharge resulted in a violation of the WDR effluent limitation for total residual chlorine of 0.019 mg/L. Board staff will evaluate the City's technical report and determine the appropriate enforcement action.

- **Response to Release of Raw Sewage**

On 19 October, the Sacramento Area Sewer District's (SASD) contractor was in the process of replacing the sewer line that crosses Arcade Creek when the bypass of the sewer system failed, which resulted in the release of 188,125 gallons of untreated, raw sewage. The entire sewage release entered Arcade Creek and the SASD participated in the clean-up. Board staff are waiting for SASD's technical report and evaluating enforcement options.

- **Response to Unpermitted Discharge, Martinez Farms, Solano County**
 On 20 October, Central Valley Regional Water Board staff received a complaint from the Solano County Department of Public Works. The complaint stated that wastewater from walnut hulling operations conducted at Martinez Ranch was being applied to county roads as dust control. Regional Board staff contacted Martinez Ranch (Discharger) and based on information provided by the Discharger, wastewater from the subject facility is collected in a water truck and discharged to various orchards throughout Solano County. Regional Board staff verified that the discharge had ceased. A Notice of Violation and a Request for a Report of Waste Discharge was subsequently issued to the Discharger.
 - **Response to Unpermitted Discharge/Illegal Dumping**
 On 21 October, the Central Valley Regional Water Board received a complaint from the San Joaquin County Environmental Health Department that Camera Brothers, a walnut processing company in Stockton, was dumping their process wastewater into an irrigation canal and has been for quite some time. An estimated 10,000 gallons of wastewater has been discharged without a surface water permit into the irrigation canal, which is tributary to Mormon Slough. Board staff will require that Camera Brothers stop the unauthorized discharge and will evaluate appropriate enforcement.
 - **El Niño Preparedness Letter**
 On 26 October, staff from the Rancho Cordova office sent a letter to the 291 dischargers who own or operate a sewage collection system or a domestic wastewater treatment facility. The letter states that because an El Niño winter has been predicted for some time, we expect our dischargers to take measures now to prevent or minimize rain-related sanitary sewer overflows. If there are rain-related overflows, and a discharger failed to take adequate measures ahead of time, then it is likely that the Board will take enforcement actions, which could include monetary penalties. Staff from the Fresno and Redding office will send out similar letters to their dischargers.
 - **Executive Officer Meeting with Caltrans District Directors**
 On 30 October, the Executive Officer held her annual storm water meeting with the Caltrans District Directors from Redding, Marysville, Stockton and Fresno. Key staff from Caltrans' construction and environmental divisions also attended. The meeting provided an opportunity for executive level discussion of storm water compliance and permitting issues. Caltrans reported on the winterization status of their major construction projects in the region. The group also discussed contingency plans for the El Nino winter, the State Board's Trash Policy and a variety of other topics. These meetings provide a problem-solving opportunity for both agencies and convey the Board's concerns about protecting water quality to Caltrans leadership.
 - **Response to Large-Volume Spills of Chlorinated Water**
 The El Dorado Irrigation District reported two large spills of 1,000,000 gallons and 600,000 gallons of chlorinated drinking water, which occurred on 26 October 2015 and 30 October 2015, respectively. The first spill occurred due to a water main break and the release entered a dry creek bed at Savage Creek. The second spill occurred due to a subsequent water main break and the release entered Hangtown Creek. Board staff will determine the appropriate enforcement action after the Irrigation District submits its technical reports.
- b. **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.

Enforcement Table 1 – Region 5 Enforcement Orders (26 June 2015 through 20 August 2015)

Action Date	Action	Agency	County	Summary
8/28/2015	Water Code Section 13267 Investigative Order (Investigative Order)	CTU Precast	Yuba	Notice of Violation (NOV) for violations of the Industrial Storm Water General Permit and 13267 Investigative Order requiring CTU Precast to submit a <i>Storm Water Compliance Technical Report</i> to address the violations noted in the 28 August 2015 NOV/13267 letter.
9/1/2015	Investigative Order	Tuolumne Cnty PWD	Tuolumne	13267 Investigative Order for violations of Waste Discharger Requirements (WDRs) requiring that by 15 October 2015 Tuolumne County submit an <i>Evaluation Monitoring Program/Site Investigation Workplan</i> .
9/4/2015	Investigative Order	H & H Trenching	Yuba	Central Valley Regional Board staff issued a NOV and 13267 Order for technical reports--due 31 October 2015--to H&H Trenching (Discharger) due to continuing Water Code Violations observed at the Discharger's Olivehurst Facility.
9/22/2015	Investigative Order	Paul and Barbara Heath	Nevada	13267 Investigative Order requiring, either: Workplans for addressing Regional Board concerns; or a signed service agreement with Nevada County to connect the Penn Valley MHP wastewater system to the Lake Wildwood collection system.
9/24/2015	Investigative Order	Cruiser Haven, Inc.	Contra Costa	13267 Investigative Order requiring--by 16 October 2015--a Technical Report to obtain compliance with WDRs.
9/25/2015	Investigative Order	Gallo Cattle Company	Merced	13267 Investigative Order requiring--by 25 October 2015--monitoring data and reports from September 2009 through September 2015 commensurate with the 2013 Dairy General Order's Monitoring and Reporting Program.
8/24/2015	Cleanup and Abatement Order (CAO)	Tamarack Energy, Inc.	Kern	Cleanup and Abatement Order (CAO) R5-2015-0720 issued to Tamarack Energy, Inc. requiring a Work Plan and time schedule to determine whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of waste discharge requirements (WDRs).
8/24/2015	CAO	J.P. Oil Company LLC	Kern	CAO R5-2015-0719 issued to J.P. Oil Company, LLC requiring a Work Plan--by 26 October 2015--and time schedule to determine whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/26/2015	CAO	Jaco Production Company (aka Jaco Oil	Kern	CAO R5-2015-0721 issued to Jaco Production Company requiring a Work Plan--by 27 October 2015--and time schedule to determine whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/26/2015	CAO	A Greener Globe Inc	Placer	CAO R5-2015-0723 issued to A Greener Globe, Inc. requiring immediate compliance with WDRs Order R5-2011-0048 and a number of technical reports.
8/27/2015	CAO	Duncan's Pumping Service	Kings	CAO R5-2015-0726 issued to Duncan's Pumping Service requiring--by 2 November 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/27/2015	CAO	Compass Global Resources, LLC	Kings	CAO R5-2015-0724 issued to Compass Global Resources, LLC requiring--by 2 November 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/27/2015	CAO	Central California Oil Company	Kings	CAO R5-2015-0725 issued to Central California Oil Company that includes a draft Monitoring and Reporting Program (MRP) for their facility that utilizes ponds for disposal of produced petroleum production fluids.
8/31/2015	CAO	Longbow, LLC	Kern	CAO R5-2015-0731 issued to Longbow, LLC. requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/31/2015	CAO	K.B. Oil & Gas, Inc.	Kern	CAO R5-2015-0734 issued to KB Oil and Gas requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.

Enforcement Table 1 (cont)

Action Date	Action	Agency	County	Summary
8/31/2015	CAO	Brittany Oil Company	Kern	CAO R5-2015-0727 issued to Brittany Oil Company requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/31/2015	CAO	Ballard Oil Inc	Kern	CAO R5-2015-0733 issued to Ballard Oil, Inc. requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/31/2015	CAO	Preuitt, Gerald H.	Kern	CAO R5-2015-0728 issued to G.H. Preuitt requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/31/2015	CAO	Grayson Service Inc	Kern	CAO R5-2015-0730 issued to Grayson Service, Inc. requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/31/2015	CAO	S&S Oil Company	Kern	CAO R5-2015-0732 issued to S&S Oil Company requiring--by 30 October 2015--a Work Plan and time schedule to determine whether whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
9/29/2015	CAO	Sacramento City	Sacramento	CAO R5-2015-0739 requires the Discharger to complete the following: (1) establish an Evaluation Monitoring Program to assess the nature and extent of the release; (2) submit results and assessment of the Evaluation Monitoring Program; (3) submit an updated Engineering Feasibility Study for Corrective Action; and, (4) implement the prescribed Corrective Action.
10/5/2015	CAO	Soper Family 2004 Trust	Lake	CAO R5-2015-0740 requiring technical reports, including a Sediment and Erosion Control Plan and a Completion Report, issued to Soper Family 2004 Trust to ensure that appropriate measures are implemented to protect waters of the state, and to verify that those measures were installed, respectively.
10/14/2015	CAO	Hanover Properties, LLC	Butte	CAO R5-2015-0741 issued to Hanover Properties, LLC for the cleanup and abatement of road drainage and dischargers of sediment-laden storm water to Canyon Creek.
11/2/2015	CAO	Gordon Dole Company	Kern	CAO R5-2015-0729 issued to Gordon Dole Company requiring--by 4 January 2016--a Work Plan and time schedule to determine whether onsite discharges can comply with applicable laws, policies, and regulations that allow the issuance of WDRs.
8/26/2015	Administrative Civil Liability (ACL)	Donner Summit Public Utilities District	Nevada	ACLO R5-2015-0538 issued in the amount of \$3,000 for one Group 1 serious effluent violation that occurred during between 1 July 2014 and 30 April 2015.
9/14/2015	ACL	Quincy Community Services District	Plumas	ACLC R5-2015-0540 issued in the amount of \$24,000 for MMP effluent violations between 16 January 2015 and 13 March 2015.
9/24/2015	ACL	Collins Pine Company Chester	Plumas	Stipulated Order R5-2015-0544 settled in the amount of \$228,000 that settles ACL Complaint R5-2014-0576 related to effluent violations subject to MMPs.
9/24/2015	ACL	David Allan Ross & Renae Elaine Braaksma-Ross	Madera	Stipulated Order ACLO R5-2015-0530 in the amount of \$42,900 replaces ACL Complaint R5-2015-0511 and addresses failure to submit a Report of Waste Discharge as required by Water Code section 13260. The Stipulated Order allocates 50% of the liability amount towards a Supplemental Environmental Project (SEP) to implement pharmaceutical take-back in Madera County.
9/30/2015	ACL	Placer County Dept of Facility Services	Placer	ACLO R5-2015-0543 assesses an administrative civil liability in the amount of \$201,000. This represents the sum of the statutory MMPs for effluent violations at the Facility from 1 March 2014 through 30 June 2015. The Order suspends \$108,000 of the penalty amount pending completion of a SEP pursuant to California Water Code section 13385(I).

Enforcement Table 1 (cont.)

Action Date	Action	Agency	County	Summary
10/9/2015	ACL	Mountain House CSD	San Joaquin	ACL R5-2015-0539 charges the Discharger with administrative civil liability in the amount of \$39,000, which represents the sum of accrued MMPs for effluent limitation violations that occurred from 1 January 2009 through 30 June 2015. There are 12 serious violations and 1 non-serious violation subject to MMPs.
10/14/2015	ACL	City of Yuba City	Sutter	ACL R5-2015-0531 charges the Discharger with administrative civil liability in the amount of \$12,000, which represents the sum of Mandatory Minimum Penalties for effluent limitation violations that occurred between 1 April 2014 and 30 June 2015. There are 2 Group I violations and 2 non-serious violations subject to MMPs.
10/15/2015	ACL	City of Sacramento	Sacramento	ACL R5-2015-0534 charges the Discharger with administrative civil liability in the amount of \$3,000, which represents the sum of MMPs for effluent limitation violations that occurred between 1 May 2013 and 30 June 2015. There is 1 non-serious violation subject to MMPs.
10/15/2015	ACL	City of Rio Vista	Solano	ACL R5-2015-0542 charges the Discharger with an administrative civil liability in the amount of \$9,000, which represents the sum of Mandatory Minimum Penalties for effluent limitation violations that occurred between 1 January 2013 and 30 June 2015. There were 3 non-serious violations subject to MMPs.
10/15/2015	ACL	City of Vacaville DPW	Solano	ACL R5-2015-0536 charges the Discharger with an administrative civil liability in the amount of \$27,000, which represents the sum of MMPs for effluent limitation violations that occurred between 2 July 2014 and 30 April 2015. There are 7 Group I violations and 2 non-serious violations subject to MMPs.
10/19/2015	ACL	City of Manteca	San Joaquin	ACL R5-2015-0535 charges the Discharger with administrative civil liability in the amount of \$6,000, which represents the sum of accrued MMPs for effluent limitation violations that occurred from 1 January 2015 through 30 June 2015. There are 2 non-serious violations subject to MMPs.
10/21/2015	ACL	City of Woodland	Yolo	ACL R5-2015-0535 charges the Discharger with administrative civil liability in the amount of \$12,000, which represents the sum of MMPs for effluent limitation violations that occurred between 1 July 2012 and 30 June 2015. There is 1 late report serious violation and 3 non-serious violations subject to MMPs.
10/23/2015	ACL	Linda County Water District	Yuba	ACL R5-2015-0532 charges the Discharger with administrative civil liability in the amount of \$18,000, which represents the sum of MMPs for effluent limitation violations that occurred between 1 April 2014 and 30 June 2015. There are 4 Group I violations and 2 non-serious violations subject to MMPs.

1) Enforcement Update – Enforcement Table 2, included below, summarizes the enforcement actions issued in all the Regions since the last EO Report (21 August through 2 November 2015). From a statewide perspective, Region 5 was responsible for 34% of all the enforcement actions tracked in CIWQS during this period including 69% of all NOV's, 90% of all CAO's, and 33% of all ACL's.

Enforcement Table 2 – Statewide Enforcement Actions

Region / Office	Enforcement Actions										
	VER	SEL	NOV	NTC	NNC	13267	TSO	CAO	EPL	ACL	Total
1	0	0	2	0	0	0	0	2	0	2	6
2	0	0	3	0	0	1	0	0	1	3	8
3	4	0	13	0	19	0	0	0	0	2	38
4	0	0	10	5	112	2	1	0	12	17	159
5F	0	60	28	1	0	0	0	15	0	0	104
5R	7	0	7	0	21	0	0	1	0	2	38
5S	2	1	47	0	144	6	0	3	0	11	214
RB 5 Total	9	61	82	1	165	6	0	19	0	13	356
6T	1	9	0	0	0	0	0	0	0	0	10
6V	0	1	1	0	0	0	0	0	0	0	2
7	0	11	0	0	50	0	0	0	0	0	61
8	14	5	2	0	356	0	0	0	0	2	379
9	2	22	5	0	0	0	0	0	0	1	30
Total	30	109	118	6	702	9	1	21	13	40	1,049

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

(21 August 2015 through 2 November 2015)

SANITARY SEWER OVERFLOWS AND COMPLAINTS

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

There were no SSO events resulting in spill in excess of 50,000-gallons in the July/August 2015 reporting period. For this reporting period, there were **6** Category 1, **5** Category 2, and **240** Category 3 spills reported. 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/ssso/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

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 Form (http://www.dtsc.ca.gov/database/CalEPA_Complaint/).

Since 1 January 2015, the Central Valley Water Board has received **130** complaints of which **107 (82%)** have been closed. Investigations for the remaining **23** complaints remain ongoing.

TMDL BASIN PLANNING

1. 2014 Integrated Report

The 2014 Integrated Report will include surface water quality data assessment, evaluation, and Clean Water Act Section 303(d) listing recommendations (identification of impaired water bodies) for the Central Valley, Central Coast, and San Diego Regions. The Central Valley Integrated Report is currently scheduled to be brought before the Central Valley Water Board in 2016.

2. Pesticide Basin Planning/TMDLs

On 9 October, Adam Laputz, Jeanne Chilcott, Danny McClure and Melissa Dekar attended a meeting hosted by the Department of Pesticide Regulation to discuss urban surface water protection, progress on the control of pyrethroids and fipronil, and continuing coordination on upcoming Water Board planning efforts related to pesticides. The meeting was also attended by staff from the San Francisco and Central Coast Water Boards, State Water Board, and members of the California Association of Stormwater Quality Agencies and the Urban Pesticides Pollution Prevention Partnership.

SALINITY AND CV SALTS

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

The CV-SALTS Executive Committee policy discussions in September and October were focused providing input on finalizing components of the draft Salt and Nitrate Management Plan (SNMP). The September meeting focused on clarifying definitions for key regulatory terms and understanding the impact of those terms when implementing a Central Valley SNMP (e.g. interpretation of “background”). There was a two day meeting in October with the first day focused on preliminary findings from the Nitrate Implementation Measures Study (NIMS) that is evaluating alternatives to address elevated nitrate concentrations in groundwater. The NIMS is scheduled for completion by the end of the year. The second day used the NIMS presentation to inform a review of the draft section of the SNMP dealing with nitrate permitting strategy for groundwater. Small working groups continue to draft preliminary policy recommendation documents on issues such as regulating nitrate discharges to groundwater and appropriate utilization of secondary maximum contaminant level to protect drinking water. The recommendations will be incorporated into the draft SNMP following review and approval by the Executive Committee.

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>

The CV-SALTS Lower San Joaquin River (LSJR) Committee has completed its efforts to compile technical information necessary to support a Basin Plan Amendment for salinity water quality objectives for the stretch of river between the Merced River and Vernalis. During September and October, the committee approved final technical reports on the economic, monitoring and surveillance, and environmental review components of the project. These reports, along with previously approved reports that proposed water quality objectives, compiled water quality and salt loading data, presented results of implementation modeling, and recommended implementation alternatives, will be used by Board staff to develop a Basin Plan Amendment for Board consideration in 2016.

2. **CV-SALTS Meeting Participation**

On 10 September, Pamela Creedon, Karl Longley, Clay Rodgers, Jeanne Chilcott, and Glenn Meeks participated in the CV-SALTS Executive Committee Policy Meeting which focused clarifying key definitions for incorporation into the draft SNMP.

On 30 September, Jim Brownell and Anne Littlejohn attended the monthly Lower San Joaquin River Committee meeting in Modesto to finalize the last of the reports developed by Larry Walker Associates to support a Basin Plan Amendment for water quality objectives in the Lower San Joaquin River.

On 15 October, Pam Buford attended the stakeholder meeting which focused on the draft report for the Alta Irrigation District Management Zone Archetype study.

On 21 and 22 October, Pamela Creedon, Karl Longley, Clay Rodgers, and Jeanne Chilcott, participated in the CV-SALTS Executive Committee Policy Meeting which focused preliminary findings from the NIMS and nitrate permitting strategy for groundwater.

On 29 October, Jim Brownell and Anne Littlejohn participated in the monthly Lower San Joaquin River Committee’s monthly meeting conducted by conference call. Items of discussion included continued support to Board staff while it prepares a Basin Plan Amendment for salinity water quality objectives for the Lower San Joaquin River.

On 6 November, Jeanne Chilcott and Pam Buford attended the CV-SALTS Executive Committee Administrative meeting which focused on how CV-SALTS will coordinate with other stakeholder studies, and procurement for the remaining work to finalize the SNMP for the Central Valley.

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

A monthly staff meeting with representatives of the USBR was held on 28 September. During the meeting, staffs of both agencies discussed the content of presentations to be delivered at the meeting of the Board-approved Real Time Salinity Management Program (RTMP) stakeholder steering committee to be held in October.

On 6 October, Jim Brownell and Anne Littlejohn attended the first quarterly meeting of the Board-approved RTMP stakeholder steering committee held at the San Luis and Delta-Mendota Water Authority offices in Los Banos. The committee elected David Corey as its Chair and Bobby Pierce as its Vice-Chair. Nigel Quinn, representing USBR, presented a summary of the WARMF model forecasting tools developed by USBR contractors. Joe McGahan, representing the committee, summarized the purpose of the RTMP and its implementation framework document that had been approved by the Board in December 2014. He also discussed the MOU and its existing and potential future signatories. Board staff summarized the requirements of the Salt and Boron TMDL, the content of the December 2014 revised MAA with USBR, and the details of the USBR's 2016 Annual Work Plan. The California Department of Water Resources (DWR) staff confirmed the agency's participation in the MOU as a "cooperating agency"; USBR is currently evaluating its participation. The next steering committee meeting was scheduled for 5 January.

A monthly staff meeting with representatives of the USBR was held on 19 October. During the meeting, the 2016 Work Plan was discussed. USBR indicated that it would be requesting an extension of the due date for submittal of a work plan addendum from 30 October to 30 November 2015, to more specifically describe how the work plan tasks support the phased goals of the RTMP.

The USBR technical research team is continuing discussions on the performance and development of the WARMF Forecast Tool for salinity in the Lower San Joaquin River, including the transfer of weekly salinity forecasting from USBR to DWR, and the eventual transfer of the tool to the RTMP group.

4. **Evaluation of Municipal and Domestic Supply (MUN) Beneficial Use in Sacramento Valley Publicly Owned Treatment Works (POTW) Receiving Water and Ag Dominated Surface Water Bodies**

The Central Valley Water Board adopted a Basin Plan Amendment to remove the municipal and domestic supply (MUN) beneficial use in twelve constructed and/or modified water bodies in the Sacramento River Basin that receive treated municipal wastewater from the cities of Biggs, Colusa, Live Oak or Willows at the April 2015 Board Meeting in Fresno. The State Water Resources Control Board adopted a resolution to approve the Basin Plan Amendment on 18 August 2015. Submission of the administrative record to the Office of Administrative Law and US EPA for review was postponed until early November 2015 due to a delay in receiving the final resolution from the State Water Resources Control Board.

The Basin Plan Amendment effort to develop a region-wide MUN evaluation process in Ag dominated surface water bodies continues to progress as scheduled. Two stakeholder meetings were held in September to continue discussions on the LIMITED-MUN beneficial use development as well as monitoring/surveillance issues. An additional small-group meeting focused on closed recirculation systems will be held on 13 November 2015. Staff will consider stakeholder input from these meetings in the development of their draft Staff Report to support this Basin Plan Amendment.

Meeting Participation

On 3 September, Anne Littlejohn, Jeanne Chilcott, Patrick Pulupa and True Khang attended a stakeholder meeting in Rancho Cordova to discuss the development of the LIMITED-MUN beneficial use.

On 24 September, Anne Littlejohn, Cindy Au Yeung, Jeanne Chilcott, Patrick Pulupa and True Khang attended a stakeholder meeting in Rancho Cordova to discuss monitoring and surveillance issues.

More information on the project can be found at:

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

SITE CLEANUP

Complex PCE Contamination Site, Former Shell Service Station – 4301 Marconi Ave, Sacramento County. The property at the corner of Eastern and Marconi Avenues in Sacramento County was the site of a Shell service station from 1955 until 1985 when the service station was demolished and a single story office building was constructed. In 2010 the site received a No Further Action (NFA) determination from the Sacramento County Environmental Management Department (SCEMD) for the completion of cleanup activities from an underground storage tank petroleum release. The NFA was for the petroleum cleanup only. Due to high levels of tetrachloroethene (PCE) that were identified on and off-site in soil, soil vapor and groundwater, at the completion of the petroleum cleanup activities, the SCEMD referred the case over to the Central Valley Water Board for further investigation and cleanup of the PCE contamination. Onsite concentrations of PCE were reported up to 8.82 parts per million (ppm) in groundwater, 770 ppm in soil and 8.11 ppm by volume in soil vapor. Off-site soil vapor PCE concentrations were detected as high as 1,636 ppmv toward the east, where a neighboring property once housed a dry cleaner facility. The extent of PCE contamination has not been defined.

The former Shell property is a complex PCE case that involves the apparent release of PCE through a dry well at the site in addition to potential PCE releases from neighboring businesses. Two former dry cleaning businesses have been identified adjacent to the former Shell service station - one to the east and one to the north of the site. Sunshine Cleaners was located at 4317 Marconi Avenue, approximately 150 feet east of the former Shell service station. It operated as a dry cleaning business from approximately 1965 through at least 1998. A review of the records indicates that PCE was used at this dry cleaning facility during this time frame. The second dry cleaning business, a Swanson's Cleaners and then later Bennie's Drop Shop Cleaners, was located at 2924 Eastern Avenue, approximately 75 feet north of the former Shell service station. This business operated as a dry cleaning drop off facility from at least 1970 through 1982. This second dry cleaning business was reported to handle drop offs only for off-site dry cleaning. Central Valley Water Board staff is currently in the process of formally acquiring facility operation information from the owners and/or former owners of these two adjacent dry cleaning businesses. Pending a review of the facility operations information, additional investigatory information may be required.

Shell submitted a Remedial Action Plan to the Central Valley Water Board on 28 July 2015, to address soil impacts onsite. The Remedial Action Plan proposes to test the effectiveness of soil vapor extraction (SVE) in the vicinity of the former dry well. Regional Board staff is in the process of reviewing this remedial plan. Regional Board staff anticipates approval of the Remedial Action Plan by early November 2015 and the SVE pilot testing to begin by early to mid-December 2015. A remedial design would then be prepared by Shell following the pilot study and a fact sheet distributed to the nearby residences to describe the proposed cleanup design/process at the Former Shell Service station. A schedule for the remedy design and installation would be dependent upon the Pilot test results and will be included in the fact sheet.

Once the source removal remedy has been implemented by Shell, it is anticipated that they will address any additional groundwater investigations and cleanup under their property in early to mid-2016. Potential cleanup of the soils and groundwater beneath the two neighboring properties will depend upon the facility operations information and any investigatory data received from each property owner. Currently, each party will be responsible for their own investigations and cleanups unless they agree to a cost sharing combined investigation and/or remedial approach. Due to the complexity of the apparent comingled plumes, cost sharing agreements made between the parties may extend the time to complete any groundwater investigatory and/or remedial work.

DAIRIES

1. Enforcement

In August 2015, staff issued approximately 46 Notices of Violation (NOV) to 32 dairies covered under the Dairy General Order that failed to submit the 2014 Annual Report, which was due by 1 July 2015. 14 of the 32 dairies have operators that are not the owners of the land or facility. Because of this, an NOV was issued to both the operator and owner of the 14 dairies. Of the 32 dairies, some have entered into the closure process or have declared bankruptcy. Staff is in the process of pursuing formal enforcement for remaining dairies that have not yet submitted the required Annual Report following receipt of their NOV.

2. Inspections

Staff has completed approximately 78 dairy inspections for FY 2015/16, including 63 compliance inspections. This outcome is in alignment with the target performance goal of inspecting each CDQAP-certified dairy covered under the Dairy General Order once every five years, and non-certified dairies once every three years.

OIL FIELDS

1. Waste Water Surface Pond

Central Valley Water Board staff continues to address issues associated with unlined surface ponds used to dispose of oil field wastewater. In 2015, 100 Section 13267 orders were issued to operators of active ponds to require submission of analytical data for produced water waste constituents including general minerals (major cations and anions), total dissolved solids, metals, radionuclides, organic compounds (such as polynuclear aromatic hydrocarbons, benzene, toluene, ethylbenzene, and xylenes), and others (such as boron, lithium, and strontium). Staff is compiling the data that has been submitted and has posted much of it to the Central Valley Water Board's internet site on the Oil Fields page

Staff is drafting enforcement orders for those facilities that are not covered by waste discharge requirements or where the current waste discharge requirements need to be updated. Staff has drafted 47 cleanup and abatement orders (CAOs), 30 of which have been issued as final. Staff anticipates finalizing approximately 95 CAOs by December.

Staff has circulated revised monitoring and reporting programs for three projects that recycle oil field produced water for agriculture. The revised programs will include more frequent monitoring and an expanded list of constituents, including but not limited to, semi-volatile and volatile organic compounds.

2. UIC Program

In 2015, Staff has issued 34, 13267 orders to operators of injection wells that inject into zones that may not have been properly designated as exempt aquifers under the federal Safe Drinking Water Act. These orders require preparation and submittal of a work plan to characterize the wastewater being injected, the quality of the groundwater within the injected zone, and existence of any nearby vulnerable water supply wells. Staff is currently reviewing the work plans and technical reports required by the 13267 orders that have been received.

3. DOGGR Face-to-Face/Field Trip

On 29 and 30 October, Central Valley Water Board Oil Field Program Staff spent two days in Bakersfield. On the 29th, Staff participated in a face-to-face meeting with State Board staff and California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR), staff to discuss roles and responsibilities. Staff then participated in a presentation on well stimulation that was coordinated by California Resources Corporation and held at the Baker Hughes facility in Shafter. On the 30th, Staff toured Chevron's Kern River Oil Field. The two days of activities provided valuable information for newer Oil Field Program Staff.

GROUND WATER STRATEGY

Groundwater Quality Protection Strategy for the Central Valley Region, a Roadmap – Workplan June 2013-June 2015 (Update)

The Groundwater Quality Protection Strategy June 2013-2015 Workplan can be found at:
http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

During the December 2013 Board Meeting direction was given to staff to coordinate with the State Water Board's Groundwater Concept Paper efforts before beginning an update to the Central Valley Water Board's Groundwater Strategy. Since that time the State Water Board has put the Groundwater Workplan on hold due to increased efforts to address the drought.

Staff is in the initial stages of preparing to update the Groundwater Quality Protection Strategy for the Central Valley Region and is currently coordinating with the Board's Program Managers. An update on the Groundwater Quality Protection Strategy is currently being drafted.

The following is a brief status report on the implementation of tasks for each of the actions identified in the June 2013-2015 Workplan:

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 Executive Committee adopted an updated Strategy, Framework, and Workplan in February 2012. 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: Establishing and Applying Site-specific Background Concentrations, Conceptual Model, Monitoring Well Network Design, Additional Monitoring Techniques, Methods, and Tools. 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, the work of the GMAW will resume upon completion of both efforts.

GMAW meeting information can be found at:
http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

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

Action 6.4.3 Implement Groundwater Quality Protection Programs through the Integrated Regional Water Management Plan Groups. The goal of this action is to leverage and expand groundwater quality program coverage through improved coordination and partnering with local regional groups that receive State funds through the Integrated Regional Water Management (IRWM) process. Efforts continue to encourage Regional Water Management Groups outreach to Disadvantaged Communities with distribution of a factsheet to provide information on Supplemental Environmental Project funding sources that may be available for IRWM plan projects that benefit disadvantaged communities. The factsheet is available at:
http://www.waterboards.ca.gov/centralvalley/water_issues/enforcement/sep_apr2015_fact_sheet.pdf On-going staff participation in IRWM groups (or Regional Water Management Groups) is included under the Public Outreach section of this EO report.

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

Action 6.5.1(b) Develop General Order for Poultry, Cattle, or Other Confined Animal Facilities. The goal of this action is to protect groundwater from waste associated with the operation of confined animal facilities including poultry raising and egg laying facilities, bovine feedlots (heifer ranches, beef cattle yards, etc.), and other types of confined animal facilities not covered by the Dairy General Order.

A General Order for Bovine Feedlots has been drafted and is being revised to address comments after internal review, expand the order to include new and expanding facilities, incorporate provisions of the recently-adopted State Board General Order for Composting, and add surface water monitoring provisions derived from those in the Irrigated Lands Regulatory Program. A public review draft is expected to be available before the end of the calendar year, with an information item presented at a Regional Board meeting shortly thereafter.

Drafting of the General Order for Poultry facilities has begun. An initial meeting with Poultry industry representatives was held in Modesto on 25 August. It is anticipated that an initial draft of the General Order will be available for public review and comment by the end of the calendar year, with an information item presented at a Regional Board meeting shortly thereafter.

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

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 certificate training program for Certified Crop Advisors and on the development of a self-certification program for growers. Staff will also coordinate with CDFA as the State Water Board responds to the Expert Panel recommendations. CDFA is participating in the Nitrogen Management Plan Technical Advisory Work Group to develop a crop nitrogen knowledge gap study plan for the agricultural water quality coalitions.

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 1 July 2013, the site cleanup backlog has been reduced from about 600 sites to 500 sites. This represents a 16% reduction, exceeding the work plan commitment of a 10% reduction. In the past 2 months, an additional 19 backlog sites were categorized, of which 6 were closed, 2 were found to be handled by another agency, 6 were considered to be site candidates, 3 were found to be closure candidates, 3 were found to be not sites at all but informational, and two were duplicate Geotracker entries that were deleted.

Action 6.5.4(a) & 6.5.4(b) Update Guidelines for Waste Disposal from Land Developments.

The State Water Board Onsite Wastewater Treatment Systems (OWTS) Policy became effective 13 May 2013 and can be found at: http://www.waterboards.ca.gov/water_issues/programs/owts/index.shtml. As required by the OWTS Policy the Central Valley Water Board adopted amendments for both Basin Plans in May 2014 and were approved by the State Water Board and Office of Administrative Law. The amendments to incorporate the OWTS Policy into our basin plans are in effect as of 26 January 2015.

The OWTS Policy gives Local Agencies the option to develop and implement performance-based requirements for new and replacement OWTS in Local Agency Management Programs (LAMPs). In the Central Valley, most Local Agencies have committed to submit LAMPs; drafts are due to our agency by 13 May 2016, and will

require Regional Board approvals by 13 May 2017. Central Valley Water Board staff expects to receive 30 draft LAMPs. To prepare for this workload, staff has maintained coordination with the State Water Board, the California Conference of Directors of Environmental Health (CCDEH), and California Onsite Wastewater Association throughout 2015, including cooperation on a preliminary completeness checklist for LAMPs. Staff met with CCDEH to discuss the checklist and Local Agencies' potential concerns; these mainly concern reporting requirements of the OWTS Policy. As a follow-up, we have composed for CCDEH review, a conceptual straw-man spreadsheet of requirements for annual reports and Water Quality Assessment Reports. The CCDEH Director is compiling comments; we will follow up with the State Water Board, likely early in 2016. An information item was presented at the 1 October 2015 at the Central Valley Water Board meeting in Redding, on implementation to date of the OWTS Policy. In October a meeting was held in Willows with the Glenn County Environmental Health Director to discuss LAMP scope, and in Redding with the Butte County Environmental Health Director to discuss a preliminary draft LAMP. On 2 November 2015, we met in Chico with Butte County and City staffs to discuss OWTS destructions, sanitary sewer constructions and connections, and groundwater monitoring in progress in the greater Chico Urban Area, which since 1990 has been under a Prohibition Order due to nitrates in groundwater.

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

Staff is enrolling small food processors and wineries under the recently-issued and expanded conditional waiver for small food processors and small wineries. There are about 475 domestic waste dischargers that appear could be regulated by the expanded new state-wide Small Volume Domestic order. Staff will continue enrolling dischargers into the new order and include rescissions of old WDRs into regular Central Valley Water Board meeting agendas. Staff will also outreach to and enroll small food processors in the waiver.

State Water Board staff has targeted two General Orders for adoption within the next twelve months (Winery General Order and Aggregate General Order). Region 5 staff will be involved directly with the development of these general orders. Development of these two orders is expected to reduce the number of backlogged applications by approximately forty.

Staff will also implement the measures developed through the Lean 6 Sigma project and develop an updated *Information Needs Sheet* to assist dischargers in understanding the information staff needs to develop WDRs. It will develop a review checklist to assist staff review or Reports of Waste Discharge, and improve permit tools to help staff develop WDRs.

Staff forecasts 27 individual WDRs in the current fiscal year and 80 enrollments in general orders or waivers. Overall, staff expects about a 22% reduction in backlogged applications this fiscal year to 170 applications.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

Waste Discharge Requirements (WDRs) Development

On 2 October, the Board adopted amendments to the Waste Discharge Requirements General Orders for growers within the Central Valley that are members of a third-party group (ILRP General Orders) to clarify that a designee can participate in outreach events on behalf of a third-party Member in fulfillment of the requirements for the following ILRP General Orders:

- Eastern San Joaquin River Watershed R5-2012-0116
- Tulare Lake Basin Area R5-2013-0120
- Western Tulare Lake Basin Area R5-2014-0001
- Western San Joaquin River Watershed R5-2014-0002
- Sacramento River Watershed Area R5-2014-0030
- Sacramento Valley Rice Growers R5-2014-0032

Sediment Erosion and Control Plan Template

On 14 September, the agricultural water quality coalitions submitted a draft Sediment and Erosion Control Plan template developed under the Group Option through collaboration of the third-party groups in the Central Valley. The ILRP General Orders require that the third-party members (Members) with the potential to cause erosion and discharge sediment that may degrade surface waters prepare and implement a Sediment and Erosion Control Plan. To comply with the requirements, a template approved by the Executive Officer must be used. The template will help identify locations subject to erosion or to frequent water flow (sediment and erosion risk areas), and describe and ensure the implementation of practices to minimize or eliminate the discharge of sediment in storm water and irrigation water discharges.

Staff provided comments to the agricultural water quality coalitions on 29 September, and a revised draft template was received on 9 October. The revised draft Sediment and Erosion Control Plan template was circulated for public review and comments. Comments on the draft template are due by 20 November 2015, and will be considered prior to the Executive Officer providing the final template to the third-party groups.

Nitrogen Management Plan Technical Advisory Work Group

The Nitrogen Management Plan (NMP) Technical Advisory 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." The NMP Work Group has met since April 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. On 21 September, the NMP Work Group met to discuss using nitrogen applied over yield as a tool for growers to evaluate their nitrogen use, in place of nitrogen removed.

ILRP Stakeholder Meeting

On 8 October, the ILRP held a stakeholder meeting at the Stanislaus Farm Bureau. The meeting was 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 were provided by representatives of the Water Board, California Department of Food and Agricultural, agricultural coalitions, and environmental justice groups. Information and suggestions were provided by the agricultural coalitions and managed wetlands representatives regarding how they can be more effectively regulated and monitored.

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 (ILRP). 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 Sept 1 – Oct 31
East San Joaquin	29
Kaweah Basin	30
San Joaquin County & Delta	260
Sacramento Valley	65
Total	384

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 (NOI) 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 Sept 1 – Oct 31
Kings River	77
Kaweah Basin	10
San Joaquin County & Delta	152
Sacramento Valley	63
Total	302

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 Sept 1 – Oct 31
Kings River	69
Tule Basin	1
Total	70

Pre-Administrative Civil Liability Notification Letters

On 30 September, the Assistant Executive Officer issued five pre-ACL letters to growers for failure to obtain regulatory coverage in the Irrigated Lands Regulatory Program. An additional four pre-ACL letters we issued on 5 October. The pre-ACL letter recipients were almond and grape growers with farm operations ranging in size from 39 to 574 acres. The pre-ACL letters proposed fines ranging from \$15,730 to \$70,980 depending on the size of the grower’s operation and time of non-compliance with applicable regulatory requirements.

Pre-ACL letters offer the recipients the opportunity to negotiate a settlement with Board staff and avert the issuance of an Administrative Civil Liability Complaint. If a settlement is reached, the details of the settlement are circulated for a 30-day public review prior to the settlement being finalized and approved by the Executive Officer.

Settlement of Administrative Civil Liability Complaints

On 24 September, the Executive Officer approved a settlement agreement and stipulation for entry of Administrative Civil Liability with Madera County almond growers David Ross & Renae Braaksma-Ross (Discharger). The settlement agreement requires the Discharger to pay a fine of \$43,544, with half this amount going toward a Rose Foundation-sponsored supplemental environmental project. This agreement settles an Administrative Civil Liability Complaint that was issued in March 2015 with a proposed penalty of \$32,532.

On 16 October, the Central Valley Regional Water Quality Control Board (Regional Board) reached a settlement agreement with M.C. Land Company in the amount of \$46,000 for violating Water Code section 13260 by failing to obtain regulatory coverage for their irrigated agricultural lands. As a stipulation of the settlement agreement, a portion of the settlement amount (\$23,000) will be used towards a Supplemental Environmental Project (SEP). As part of this initiative, the Regional Board has partnered with the Rose Foundation for Communities and the Environment to act as a third-party and assist in dispersing penalty monies to projects that are focused on protecting water quality in the Central Valley and also assist Disadvantaged Communities in the Central Valley. For this settlement, \$21,390 will be distributed to the Central California Environmental Justice Network to enhance residents' abilities to identify, monitor, and report potential threats to groundwater and surface watersheds in Fresno and Kern Counties. The full Settlement Agreement, including a description of the SEP with a timeline and deliverables, is available for review on the Regional Board's webpage.

Coalition Enrollment Summary

The tables below provide the latest coalition enrollment data based on coalition member lists submitted on or about July 31st per the ILRP general order requirements and subsequent updates to member lists.

Table 1 of 2. Coalition Enrollment Information Summary in the Sacramento, Delta, East and Western San Joaquin River Watersheds				
Coalition Group	East San Joaquin	Sacramento Valley	San Joaquin Co. & Delta	Western San Joaquin River
Outreach Start Date	Jan 2013	June 2014	April 2014	March 2014
Participating Growers and Associated Acreage				
Number of Growers, Pre-Order ¹	2,225	7,888	3,256	2,450
Number of Growers, as of July 2015	3,743	8,618	3,515	2,507
Change (Additional Growers Enrolled)	1,518	730	259	57
Participating Acres and Associated Acreage				
Number of Acres, Pre-Order ²	535,653	1,183,491	348,200	467,625
Number of Acres, as of July 2015	713,216	1,340,216	386,452	446,057
Change in Acres Enrolled	177,563	156,725	38,252	-21,568 ³

Table 2 of 2. Coalition Enrollment Information Summary for the Tulare Lake and Western Tulare Lake Basins									
	Coalition Group	Buena Vista	Cawelo	Kaweah Basin	Kern River	Kings River	Tule Basin	Westside	Westlands
	New Order Outreach Start Date	Apr 2014	Apr 2014	Feb 2014	Feb 2014	Nov 2013	Apr 2014	May 2014	Feb 2014
Participating Growers and Associated Acreage									
	Number of Growers, Pre-Order ¹	3,794 (Southern San Joaquin Water Quality Coalition ³)							1,070
	Number of Growers, as of July 2015	61	87	1,321	819	5,165	1,116	43	1,214
	Change (Additional Growers Enrolled)	4,818 (Southern San Joaquin Water Quality Coalition to multiple Tulare Lake coalitions)							144
Participating Acres and Associated Acreage									
	Number of Acres, Pre-Order ²	957,362 (Southern San Joaquin Water Quality Coalition ⁴)							507,489
	Number of Acres, as of July 2015	30,788	34,524	163,422	513,097	790,358	225,018	99,761	511,467
	Change (Additional Acres Enrolled) ⁴	899,606 (Southern San Joaquin Water Quality Coalition to multiple Tulare Lake coalitions)							3,978

¹The East San Joaquin coalition pre-Order participating growers comes from July 2012; the rest of the coalitions come from July 2013. Participant values were provided by the coalitions or calculated by staff using a pivot table to determine the number of unique names.

²East San Joaquin Coalition is derived from the 2012-2013 Annual Fees; for the rest of the coalitions, the acre value is derived from the 2013-1014 Annual Fees. Reporting acres vary (e.g., acres, irrigated acres, farmable acres, assessed acres, etc.)

³ Acreage reductions in Western San Joaquin River Coalition area are due to drought-related fallowing of land.

⁴ Participant information prior to 2014 uses data derived from the Southern San Joaquin Water Quality Coalition

Cleanup & Abatement Order (CAO)

On 23 September, the Assistant Executive Officer issued a CAO to K2 Ranches LLC (Discharger) in Stanislaus County. The Discharger has mass-graded a large area of former foothill pasture to prepare the land for a permanent crop, likely almond orchard. The disturbed earth has created the potential for sediment discharges to surface waters during the upcoming wet season. The CAO requires the Discharger to submit a Sediment & Erosion Control Plan and a Completion Report to document site improvements based on a defined time schedule.

In addition, staff will continue conducting targeted inspections of other new orchards in the foothills to address the water quality threat from these new operations on steep slopes.

Sacramento River Watershed Coalition Groups

California Rice Commission Coalition

On 20 May, the California Rice Commission submitted a Surface Water Quality Management Plan for Dissolved Oxygen (DO) which examines DO exceedances for the cold and warm water quality objectives from 2004 to

2014. The request for a Management Plan was triggered by water quality objective exceedances in the 2014 season. The DO management plan is under staff review.

On 4 June, the California Rice Commission submitted a proposed Nitrogen Management Plan template as required by General Order R5-2014-0032. The proposed Nitrogen Management template is specific for rice and will be a web-based system to assist rice growers in managing nitrogen applications. No comments were received on the proposed template, which were due on 3 July. The Nitrogen Management Plan template was approved by the Executive Officer on 23 October 2015.

On 1 October, the California Rice Commission submitted the draft Groundwater Trend Monitoring Workplan and Data Gap Assessment Plan for staff review. The draft Workplan includes a quality assurance project plan for groundwater to supplement the surface water plan as an appendix. As required by the Order, the Workplan details the groundwater trend monitoring that will take place to determine current water quality conditions of groundwater relevant to rice operations and develop long-term groundwater quality information that can be used to evaluate the regional effects of rice practices. The draft Workplan is under staff review.

Sacramento Valley Water Quality Coalition

On 20 August, SVWQC (Coalition) submitted a revised proposal for participation in the Delta Regional Monitoring Program (RMP). In the proposal, the Coalition outlined specific monitoring reductions that would permit SVWQC to continue to comply with Waste Discharge Requirements Order R5-2014-0030-R1 and offer support to the Delta RMP.

On 10 September, SVWQC submitted a breakdown of costs associated with their Delta RMP proposed monitoring reductions. Staff is in the process of reviewing the proposal.

On 19 October, Central Valley Water Board staff held a meeting with SVWQC and representatives from the Placer-Nevada-South Sutter-North Sacramento (PNSSNS) subwatershed to discuss their proposal for participation in the Reduced Monitoring / Management Practices Verification Option.

San Joaquin River Watershed Coalition Groups

East San Joaquin Water Quality Coalition

On 1 September, the East San Joaquin Water Quality Coalition submitted an amendment to the 2015 Annual Report to correct calculation error that was noticed during staff's review, and clarify the method for calculating the compliance statistics. The report is currently under staff review.

On 1 September, staff received the East San Joaquin Water Quality Coalition's Quarterly Monitoring Data Report for the period January-March 2015.

On 11 September, staff received the East San Joaquin Water Quality Coalition's updated boundary shape files.

On 18 September, the East San Joaquin Water Quality Coalition resubmitted the Monitoring Plan Update report for the 2016 water year (1 October 2015 - 30 September 2016), including edits discussed with staff on 3 September. The Monitoring Plan Update is currently under staff review.

On 21 September, the Coalition submitted a request to remove 30 constituents from 17 site subwatersheds management plans and management plan monitoring schedule. The request is currently under staff review.

On 27 September, staff held the 25th quarterly meeting with the East San Joaquin Water Quality Coalition to discuss progress of implementing the Coalition's Management Plan, performance goals, compliance time schedule and status of other activities in progress. The Coalition provided an update on the management plan monitoring results and outreach in the subwatersheds.

On 3 August, the East San Joaquin Water Quality Coalition submitted a proposal outlining the monitoring reductions to compensate the monetary contribution to the Delta Regional Monitoring Program. After confirming that the proposed changes to water quality monitoring would allow the Coalition to continue to comply with the requirements of the Order, the EO approved the proposed changes on 29 September. The approved monitoring reductions are included in the 2015 Monitoring Plan Update.

San Joaquin County and Delta Water Quality Coalition

Staff continues to review the San Joaquin County and Delta Water Quality Coalition's Comprehensive Surface Water Quality Management Plan, submitted on 1 May. The Plan provides an evaluation of water quality impairments, evaluation of management practices, and establishes performance goals and measures with a time-table.

On 1 August, the SJD Coalition submitted its annual 2015 Monitoring Plan Update by the Order's deadline. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2015 and September 2016. It is under staff review.

On 15 September, the Executive Officer approved SJD Coalition proposal outlining its contribution to the Delta Regional Monitoring Program. The reduced monitoring involves eliminating specific months from the core site monitoring schedule where there have not been water quality issues for toxicity, applied pesticides or applied metals.

On 22 October 2015, the Executive Officer approved the SJD Coalition Monitoring Plan Update. The Coalition is required to prepare an annual monitoring plan that includes the monitoring schedule and frequency.

Westside San Joaquin River Watershed Coalition

On 9 September, Staff held a meeting with the Westside San Joaquin River Watershed Coalition's (Coalition) representatives and their consultants to discuss the Comprehensive Groundwater Quality Management Plan (GQMP) requirements. The GQMP expectations were discussed.

On 24 September, Staff held a meeting with the Coalition's representatives to discuss the inclusion of the managed wetlands area into the Sediment Discharge Erosion and Assessment Report. The additional requirements to develop a Sediment Erosion Control Plans for the managed wetland were also discussed.

On 5 October, the Executive Officer approved the Coalition's proposal outlining its contribution to the Delta Regional Monitoring Program. The reduced monitoring involves eliminating specific months from the Coalition's monitoring schedule where there have not been water quality issues for toxicity, applied pesticides or applied metals.

Grassland Basin Drainage Steering Committee (Grassland Drainage Area Coalition)

On 16 September, Staff participated in the growers meeting and a field tour of the area hosted by the Grassland Drainage Area Coalition. The new groundwater regulatory requirements were discussed with the growers within the Grassland Drainage Area at the meeting.

On 20 October, the Grassland Drainage Area Coalition submitted a draft outline for the Groundwater Quality Assessment Report for staff review. The draft outline details the information and format for the Report required by 31 July 2016. The outline is currently under staff review.

Tulare Lake Basin Coalition Groups

Kaweah Basin Water Quality Association

During September and October 2015, staff issued one Notice of Applicability (NOA) to a grower within the Kaweah Basin Water Quality Association area, notifying the grower of their coverage under Waste Discharge Requirements General Order R5-2013-0120.

On 7 October 2015 the Executive Officer conditionally approved the Sediment Discharge and Erosion Assessment Report submitted by the Kaweah Basin Water Quality Association. A copy of the letter is available on the Regional Board's ILRP webpage.

Kern River Watershed Coalition Authority

During September and October 2015, staff issued 3 Notices of Applicability (NOAs) to growers within the Kern River Watershed Coalition Authority area, notifying them of their coverage under Waste Discharge Requirements General Order R5-2013-0120.

On 7 October 2015 the Executive Officer conditionally approved the Sediment Discharge and Erosion Assessment Report submitted by the Kern River Watershed Coalition Authority. A copy of the letter is available on the Regional Board's ILRP webpage.

Kings River Watershed Coalition Authority

During September and October 2015, staff issued 23 Notices of Applicability (NOAs) to growers within the Kings River Watershed Coalition Authority area, notifying them of their coverage under Waste Discharge Requirements General Order R5-2013-0120.

On 6 October 2015 the Executive Officer conditionally approved the Sediment Discharge and Erosion Assessment Report submitted by the Kings River Watershed Coalition Authority. A copy of the letter is available on the Regional Board's ILRP webpage.

Tule Basin Water Quality Coalition

On 29 October 2015 the Executive Officer conditionally approved the Sediment Discharge and Erosion Assessment Report submitted by the Tule Basin Water Quality Coalition.

Westlands Water Quality Coalition

During September and October 2015, staff issued 3 Notices of Applicability (NOAs) to growers within the Westlands Water Quality Coalition area, notifying them of their coverage under Waste Discharge Requirements General Order R5-2014-0001.

Other Projects

Data Management

In May 2015, the Central Valley Regional Data Center's (Data Center) contract expired, and the Data Center's assistance with loading ILRP data into the California Environmental Data Exchange Network (CEDEN) has ceased until a new contract is executed. This has delayed uploads of ILRP data into CEDEN and will make it more difficult for interested parties to obtain some of the 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 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 Westside Coalition since program inception.

On 15 June, the Westside San Joaquin River Coalition provided their semi-annual monitoring data deliverable. After the data management team validates the data, it will be loaded into the Data Center database replica.

Staff has loaded the Grasslands Bypass Project electronic field data deliverable covering the monitoring period January through December 2014 into the Data Center replica before submitting to CEDEN.

On 21 October, the Grasslands Bypass Project submitted its chemistry electronic field data deliverable covering the period from January through July 2015. Staff is validating the data before loading into the data base.

Grassland Bypass Project

On 31 August, 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. The draft Plan is currently under staff review.

Rice Pesticides Program

Monitoring for thiobencarb started the last week of April and ended on 1 July 2015. Exceedances of the thiobencarb performance goal were observed in two Colusa Basin Drain sites; there were no thiobencarb detections at the water intakes for the Cities of West Sacramento and Sacramento. The California Rice Commission initiated additional monitoring upstream of a Colusa Basin Drain site that is not required by the Rice Pesticides Program to better characterize the drainage. A Rice Pesticides Program stakeholder meeting to discuss the 2015 thiobencarb monitoring results was held on 6 November 2015.

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 under development. For information on eligible activities visit the Office of Sustainable Water Solutions website at:

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

Current Funding administered through State Water Board

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

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

Clean Water Act §319(h) Nonpoint Source Grant Program on-going grants:

Implementation Middle Creek Watershed Road Storm Proofing Project (\$750,000) - The West Lake Resource Conservation District is implementing this project focused on contributing to the restoration of Clear Lake by reducing the amount of mercury and nutrient transporting sediment reaching the lake and its tributaries. (end date 12/30/15)

Extending Agricultural BMPs in the Lower San Joaquin River Watershed (\$483,720) – 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 6/30/16)

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)

GENERAL

1. **North Star Mine Water Treatment Project, Nevada County**

Newmont USA, Ltd.'s proposed North Star Passive Water Treatment Project in Grass Valley is currently on hold. The proposed project stems from an August 2014 Cleanup and Abatement Order (R5-2014-0706) issued by the Title 27 Permitting and Mining Unit to Newmont for the North Star property. A portion of the property consists of underground mine workings from the late 1880s to 1950s gold mining era. Following closure of the mines and the cessation of mine dewatering activities, groundwater within the underground mines recovered to elevations of the mine drainage tunnels. These tunnels currently drain to Wolf Creek and contain iron and manganese at concentrations that threaten to impact beneficial uses in Wolf Creek. In addition, mine discharges periodically contain arsenic at concentrations that exceed the arsenic Primary Maximum Contaminant Level of 10 parts per billion ($\mu\text{g/L}$).

On 24 September 2015, the Nevada County Planning Commission, on a 5-0 vote, adopted a Mitigated Negative Declaration for the project and took action to approve the Use Permit and Management Plan applications. Following the Planning Commission's actions, neighbors of the project filed an appeal with the Nevada County Board of Supervisors. The Board of Supervisors heard the appeal on 10 November 2015 and after considering the issues, unanimously voted to postpone a decision on the North Star Passive Water Treatment Project, opting instead to send the proposal back to County staff and Newmont's engineers to re-examine the design of the sedimentation ponds.

The earliest the project could return to the Board of Supervisors is next month. If the Board of Supervisors decision results in significant changes, Newmont would have to substantially redesign the project and conduct additional environmental studies which could take several years. Cleanup and Abatement Order R5-2014-0706 required that the North Star Passive Water Treatment Project is completed by 31 December 2015, but delays in the permitting process with Nevada County have taken much longer than anticipated. Construction is expected to take six to nine months to complete once Newmont is given approval to start work.

2. **Argonaut Tailings Dam in Jackson**

Central Valley Water Board staff has been attending meetings with staff from the U.S. EPA, SWRCB, DTSC, the Department of Conservation, and the City of Jackson regarding the 99-year old Argonaut Tailings Dam in Jackson. As described during the Mining Information Item at the October Board meeting, the dam holds back 169,000 cubic yards of arsenic-contaminated tailings, and the U.S. Army Corp of Engineers recently determined the dam to be structurally unsound. DTSC and EPA advise that if the dam fails; it reportedly could release a 15-foot deep mudflow that would reach central Jackson in as little as two minutes. The City is preparing an emergency action plan, and surface water diversion features are currently being constructed as an interim measure to reduce pressure on the dam. This temporary fix is expected to be completed by 23 November 2015. The U.S. Army Corps of Engineers is designing a more permanent retrofit design which will require up to \$8 million to implement

3. **Lean 6-Sigma Project Update**

The Lean 6-Sigma Project training is complete. The Project Team identified critical process steps that delay Non-Chapter 15 permit processing and identified improvement techniques that will improve the amount of time it takes to review a Report of Waste Discharge and adopt the corresponding Waste Discharge Requirements (WDRs). The improvement techniques will be shared with staff in November 2015. The improvement techniques include: an updated *Information Needs Sheet* to assist discharges in understanding the information staff needs to develop WDRs; WDR review checklist; permit templates; and easier ways to facilitate addressing issues with the project.

Demonstration Pilot Project for Biological Denitrification of Rural Community Groundwater
The State Water Board is in the process of finalizing a grant agreement with the City of Delano for \$359,100 in Cleanup and Abatement Account funds to conduct an eight month biological denitrification pilot test at Paradise Colony in Tulare County. Paradise Colony is a small rural unincorporated community near the City of Lindsay, which consists of five homes and approximately 12 residents. The overall purpose of the pilot test is to provide data to be used in determining the efficacy of fixed bed

bioreactors in treating a nitrate contaminated water supply for a very small community such as Paradise Colony that has a low water demand profile. It is anticipated that a pilot unit could be delivered to the site for testing by March 2016. Nitrate impacts to Paradise Colony's groundwater supply typify the problems facing small rural disadvantaged communities in the Tulare Lake Basin in that its water system is a simple well and pressure tank configuration without any type of water treatment. If the remotely operated pilot demonstration is successful, such drinking water treatment systems could potentially be deployed in a multitude of small communities throughout the Region. Such a large deployment on a regional level could lower both capital and operation and maintenance costs to individual communities.

4. Ytr Support on Valley and Butte Post-Fire Responses

Board staff from the region's three offices in the Forest Activities and the Storm Water programs supported the State's response to the Valley fire in Lake and Napa counties and the Butte fire in Amador and Calaveras counties. In late September, CALFIRE requested help on the State Post Fire Watershed Emergency Response Teams. In the first phase, Griffin Perea from Redding on the Valley fire and René Leclerc from Sacramento on the Butte fire each spent 10 days in the field with the teams. The teams validated burn severity maps derived from satellite imagery, identified life safety threats associated with increased runoff from the burn areas, and proposed emergency protective measures. The burn severity information along with terrain and soil data allowed other agencies to model erosion potential, debris-flow risk, and increased flood hazards resulting from the fires. In the second phase, Anthony Toto from Fresno and Rich Muhl from Sacramento each spent five days in the field with the Butte team to further assess life safety threats and emergency protective measures. Rich Muhl continues to assist the affected counties on an as-needed basis, primarily on issues of erosion and sediment control, regulatory compliance, and agency coordination.

Abandoned Mines Update

In October 2015, the US Department of the Interior released a report, Technical Evaluation of the Gold King Mine Incident. The Report contains two appendices, 1) Uncontrolled Releases of Mine Water in the United States and 2) Hydraulic Mine Bulkheads in the United States. Mines within the Central Valley Region are included in both appendices. On December 2, 2015 USEPA contacted Clint Snyder, AEO in the Board's Redding office, to discuss possible deployment of an Optimization Team to the Redding area. The Optimization Team would be made up of mining experts and would conduct a file review and in-field engineering evaluations of Redding area mine features including bulkhead seals. USEPA is currently working on funding to support the teams which could be deployed as early as spring 2016.

DELTA ACTIVITIES

1. Delta Methylmercury Control Program

For the Delta Mercury Control Program Phase 1 (2011 – 2018), the Basin Plan requires that responsible entities perform studies of methods to control methylmercury. The purpose of the control studies is to test and evaluate methods of limiting methylmercury entering Delta waterways in order to reduce the levels in Delta fish and achieve water quality objectives. Control Study Work Plans were reviewed by an independent technical advisory committee and approved by the Executive Officer in 2013. Work plans submitted to the Water Board encompassed most of the types of methylmercury sources named in the Total Maximum Daily Load (TMDL) report, namely seasonal and tidal wetlands, municipal wastewater, urban and industrial storm water, and open water channels.

Methylmercury Control Study progress reports were due on 20 October 2015. The table below lists studies and their current status. The Basin Plan requires that final study reports be submitted in October 2018 unless need for extension until 2020 is granted and approved by the Executive Officer.

Methylmercury Study Project and Authors	Compliant with Basin Plan?	Summary of Study Progress
Central Valley Clean Water Association Methylmercury Special Project (group study that includes Delta and non-Delta municipal wastewater treatment plants)	Yes	Project measured methylmercury (MeHg) in influent and effluent at all participating facilities and evaluated the data with respect to facility treatment type. The project also predicts changes in methylmercury loads under potential treatment upgrades. Data collection from local facilities and most analyses are complete. Data show that treatment systems with nitrification-denitrification processes have near-or non-detectable levels of methylmercury in effluent. The report proposes a small amount of additional work, pending comments from the technical advisory committee.
City of Stockton and County of San Joaquin Methylmercury Control Study (urban stormwater)	Yes	The study is sampling inflow and outflow of a detention basin within the MS4 permit area and evaluating effectiveness of settling basins at trapping MeHg. Data from completed sampling events are presented in the Progress Report. Additional data and analyses will be completed for the Final Report.
Sacramento Stormwater Quality Partnership Methylmercury Control Study (urban stormwater)	Yes	The project tested effectiveness of one management practice, low impact development (LID), at reducing MeHg loads and concentrations. Two urban sites with and without LID features were monitored. Methylmercury loads were reduced by LID due to the reduction in discharge volume. At one site, MeHg discharge concentrations were also lower after LID installation. The final report will evaluate feasibility of meeting wasteload allocations.
City of Sacramento for its Combined Storm Sewer System (wastewater and stormwater)	Yes	This project is evaluating methylation potential in plant and conveyance systems and possible reductions through proposed LID and capital improvement projects. The City collected influent and effluent samples during five winter storm events and tested methylmercury produced in deposited sediments. Additional data and analyses will be completed for the Final Report.
Contra Costa Clean Water Program (urban stormwater)	Yes	This project monitored a) methylmercury in urban drains in East Contra Costa County for comparison with TMDL estimates, and b) outflow from two biofiltration systems, which are a type of LID management practice. Data collection is complete.

Methylmercury Study Project and Authors	Compliant with Basin Plan?	Summary of Study Progress
Deuel Vocational Institute (wastewater treatment for California Department of Corrections facility)	Yes	This individual study completed monitoring of methylmercury in influent and effluent. Data indicate that the treatment process is effectively removing methylmercury and no additional mercury source investigation or plant optimization is needed.
Port of Stockton Methylmercury Control Study (industrial stormwater)	Yes	The objective of this individual study is to determine whether additional maintenance of stormwater collection systems is needed to reduce methylmercury loads discharged to the San Joaquin River. Due to lack of runoff and sediment accumulation in the targeted collection system, monitoring will occur in winter 2015/2016. Data and final analyses will be complete by 2018.
Open Water Workgroup Progress Report (group led by Department of Water Resources and involving State and federal water and land management agencies)	Yes	This group project is a combined modeling, field data, and laboratory approach to evaluate the potential effects of operational changes on methylmercury in Delta channels. Department of Water Resources is developing two mathematical models, one each for the Delta and Yolo Bypass that will allow testing of various land and water management scenarios. This is a particularly detailed effort, as both new data for model inputs and new modelling code are needed. The final report for this study is expected to be complete at the end of 2019.
Delta Mercury Control Progress Report for Tidal Wetlands (Department of Water Resources)	Yes	To inform planning for future tidal wetland restorations, this project is monitoring methylmercury concentrations and loads in existing tidal wetlands. Data collection at one tidal wetland in the Yolo Basin Wildlife Area is complete (10 tidal cycles/one year). Collection has begun at a second site in the Suisun Marsh. The challenge for this study will be to complete monitoring at a sufficient number of wetlands by 2018 so that comparisons between different tidal wetlands and effects on methylmercury can be made.
Effects of Ship Channel Maintenance Dredging on Methylmercury (US Army Corps of Engineers)	Yes	The Corps of Engineers evaluated methylmercury concentrations in dredge material return flow and effect on the San Joaquin River. Although discharge concentrations of methylmercury were relatively high, no effect on the river was observed. This study continues work begun in 2009 to evaluate management practices and characterize methylmercury loads.
Methylmercury Management in Seasonal Wetlands	Yes* (meeting 319(h) grant schedule)	This study is evaluating the effect of passing water from seasonally flooded wetlands (shallow, typically with high methylmercury concentrations) through permanent ponds (deep areas designed to promote methylmercury settling and degradation by ultraviolet light). Final report is due in 2017.

Staff has completed a preliminary review of the Progress Reports. Staff will also obtain comments from the independent Technical Advisory Committee (TAC) and will report the TAC's comments and recommendations for additional work to the Water Board in spring 2016.

In addition to studies specific to methylmercury control, the Basin Plan requires development and implementation of a plan to reduce loads of mercury leaving the Cache Creek Settling Basin. By trapping sediment and associated mercury, the Cache Creek Settling Basin prevents this mercury from entering the Yolo Bypass. The Basin Plan directs that, in parallel with the methylmercury control study progress reports, the agencies responsible for the Cache Creek Settling Basin submit a report describing: a) environmental benefits and costs of maintaining the settling basin indefinitely; and b) potential alternatives for improving trapping efficiency. The Department of Water Resources, assisted by the US Geological Survey and UC Davis, has conducted a multi-year study of mercury and methylmercury entering and within the settling basin. The Department of Water Resources intends to provide a report containing a summary of these studies and the report components described above by the end of November 2015.

Along with the studies being conducted on the TMDL Phase 1 timeline, staff is tracking other methylmercury monitoring, research, and synthesis efforts.

- Characterization of methylmercury concentrations and loads leaving flood- and furrow-irrigated fields (conducted by US Environmental Protection Agency Region 9 and Central Valley Water Board).
- Preliminary investigation of the effects of aquatic vegetation on methylmercury concentrations and production in Delta channels (conducted by Moss Landing Marine Laboratories under contract to Central Valley Water Board).
- Methylmercury management practice studies for seasonally-flooded, managed wetlands and rice previously conducted in the Yolo Bypass (California Department of Fish and Wildlife) and Cosumnes River Preserve (conducted by US Bureau of Land Management and US Geological Survey utilizing a Nonpoint Source Program 319(h) grant).
- Five-year monitoring effort at Mayberry wetland restoration and subsidence reversal project on Sherman Island in the western Delta (conducted by Department of Water Resources).
- The Delta Science Program's review of the 2002 Mercury Strategy for the Bay-Delta Ecosystem that was written for the CalFed program. This review involves presentations of recent research in front of a mercury expert panel in January 26-28, 2016.

A more detailed discussion of the findings from the various studies will be provided to the Board in early 2016. More information on the Delta Mercury Control Program can be found at:

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

2. **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. Accomplishments of the Delta MERP include:

- hosting quarterly meetings for education and networking among community stakeholders;
- training small grant recipients to conduct education in their communities;
- outreach to numerous local agency and community organizations in 5 Delta counties; and
- developing educational materials, including translations into eight non-English languages.

Delta MERP's small grant program is providing assistance to three community organizations: the California Indian Environmental Alliance, Asian Pacific Self-Development and Residential Association, and Lao Khmu Association.

A quarterly community stakeholder meeting was held on 30 September in Stockton. Attendees received an update on the development of a low-literacy fish consumption advisory pier sign to be posted at locations throughout the Delta. Also discussed were a research project analyzing demographic information about Delta populations, the role of media advocacy in education about fish contamination, and an online

educational tool CDPH is developing to train community groups in effective communication of fish contamination messages.

The fourth quarterly community stakeholder meeting is scheduled for 2 December, 9:30 AM – 12:00 p.m., at the East Bay Regional Park District – Big Break Visitor Center in Oakley, CA. Jay Davis from the San Francisco Estuary Institute will present on a recent study to identify lakes and reservoirs in California that have low levels of contaminants in fish.

3. **Delta Regional Monitoring Program (RMP)**

Since April 2015 the Delta RMP has been collecting and analyzing pathogens, pesticides, and toxicity at several locations in the Delta. The pathogen data collection has been a collaborative effort with Department of Water Resources' Municipal Water Quality Investigations branch. This monitoring is occurring at twelve drinking water intake sites and has been evaluating *Cryptosporidium* and *Giardia* concentrations. Preliminary data will be reviewed by the Department of Water Resources and summarized in an annual report. Pesticide and toxicity monitoring has been occurring since July at five sites around the Delta; preliminary data from the first three months of monitoring shows detections of several pesticides.

Staff is continually working to increase participation in the RMP. Permits for four Phase I Large MS4s, seventeen wastewater treatment facilities, and four irrigated lands coalitions have been amended to allow participation in the Delta RMP. Fifteen wastewater treatment plants (WWTPs) in the Delta have received Executive Officer approval to reduce their individual receiving water monitoring and have committed to provide annual funding to the RMP. Several other WWTPs are contributing funding to the Delta RMP but have not yet requested to reduce their monitoring. Staff has also contacted three additional WWTPs with recent permit amendments to solicit their participation in the RMP. These three permittees are outside the Delta boundary but still have a hydrologic connection to the Delta.

In addition, the Board has received and approved requests for eleven small storm water agencies (Phase II Small MS4s) to participate in the Delta RMP. Staff is working on contacting additional Phase II Small MS4s that are near the Delta to solicit their RMP participation. Staff is near completion of an approval for the Stockton and San Joaquin County MS4. Staff is also currently coordinating with the Port of Stockton and Modesto to review their proposals for monitoring reductions in exchange for Delta RMP participation.

In July, staff received proposal letters from the four irrigated lands coalitions that are in or adjacent to the Delta for participation in the Delta RMP. Delta RMP staff have approved three Coalitions and are coordinating with Redding's Irrigated Lands Regulatory Program staff to approve the requested monitoring reductions for the Sacramento Valley Water Quality Coalition.

Thus far, 30 entities are participating in or funding the RMP.

4. **Delta Nutrient Research Plan**

The 2014 Delta Strategic Work Plan calls for the development of a Nutrient Research Plan to determine whether long-term changes in nutrient loads might contribute to several water quality problems present in the Delta today and whether nutrient water quality objectives might be required in the future. A Stakeholder and Technical Advisory Group (STAG) was formed in December 2014 and in 2015, Science Work Groups (SWG) were formed to provide advice on potential nutrient related water quality problems. The SWGs are composed of local experts on each water quality issue. The progress of each group is summarized below.

- The Cyanobacteria SWG. Dr. Mine Berg presented her white paper findings on the state of knowledge about cyanobacteria in the Delta and received and addressed comments from the SWG and STAG. The SWG also prepared a brief document summarizing key knowledge gaps that will need to be addressed before it can be determined whether nutrient management might reduce the severity of the cyanobacteria problem in the Delta. The knowledge gap document was presented to the STAG in September and was then revised based on comments received. The final product was accepted by the STAG at its meeting in November. Work by this SWG is now complete.
- The Macrophyte SWG. Dr. Kathy Boyer presented her white paper findings on the state of our knowledge about macrophytes in the Delta and accepted and addressed comments from the SWG.

Dr. Kathy Boyer presented the findings of her white paper to the STAG during their September meeting. The SWG prepared a knowledge gap document summarizing what key data gaps will need to be addressed before it can be determined whether nutrient management will reduce the magnitude of the macrophyte problem in the Delta. The knowledge gap document was accepted by the STAG at its November meeting. Work by this SWG is now complete.

- The Modeling SWG. This SWG was formed to provide advice to the Regional Board on what types of models would be needed to answer nutrient management questions. Phil Trowbridge of the San Francisco Estuary Institute was contracted to facilitate the work group and tasked with writing the white paper. An initial kick-off meeting was held in June to solicit information on the white paper outline, and two additional meetings were held in September and October to review and revise the draft white paper. Phil Trowbridge presented the draft white paper to the STAG at the November meeting and solicited comments from the STAG. It is anticipated that the white paper will be revised based on STAG comments and completed by early December. This white paper will be the final work product of the Modeling SWG.
- Joint workshop with San Francisco Bay Nutrient Management Group. Staff from the San Francisco and Central Valley Water Boards has similar concerns about the effect of elevated ammonium concentrations and shifts in nitrogen to phosphorus ratios on algal abundance and algal species composition. The Steering Committee for the San Francisco Bay Nutrient Management Group voted in June to hold a joint workshop with the Central Valley Water Board to evaluate current science and identify research needs. A proposal on how to conduct the workshop was prepared and presented at the Nutrient Management Group and STAG meetings on 22 and 23 September, respectively. Advice was sought from both stakeholder groups on how to proceed and a planning subcommittee was formed. The subcommittee has been working on developing the workshop questions, identifying potential funding sources, a list of potential white paper authors, panel members, and list of presenters. It is anticipated that the workshop will take place in early 2016.

With completion of many of the knowledge gap documents and upcoming joint workshop, the STAG has initiated development of a ranking process for the research recommendations that will be included in the final Delta Nutrient Research Strategy.

5. **San Joaquin River Dissolved Oxygen TMDL Implementation**

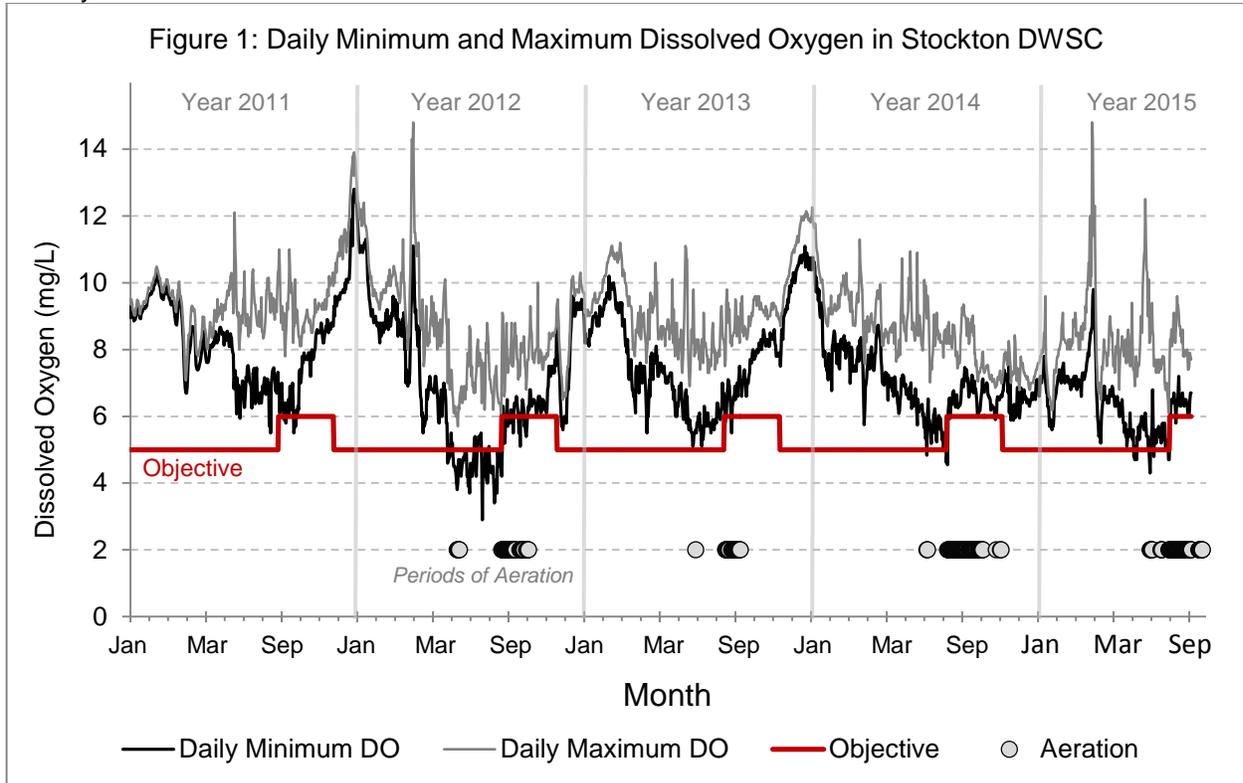
The San Joaquin River near the City of Stockton has been impaired for low dissolved oxygen (DO) concentrations since the mid-1930s. This section of the river has been dredged and is part of the Stockton Deep Water Ship Channel (DWSC). Low DO conditions in this section of the river used to occur all year long resulting in fish kills and contributing to delays in the fall migration of salmon heading upstream to spawn. In 2005, the Central Valley Water Board adopted a TMDL and control program for factors contributing to the DO impairment.

A vital component of the control program was the City of Stockton's upgrades to its Regional Wastewater Control Facility to comply with its 2008 NPDES permit. Upgrades made at the plant in 2007 resulted in a ten-fold reduction in its effluent ammonia concentrations. Another key implementation component was the construction, demonstration and operation of an aeration facility. The facility was constructed in 2006-2007 on Rough and Ready Island, demonstrated from 2008-2010 and is now operated to increase DO levels in the channel when needed. In 2012, the Port of Stockton took ownership of the facility and has voluntarily partnered with the State Water Contractors, the San Joaquin River Tributaries Authority, the San Luis and Delta-Mendota Water Authority and the San Joaquin Valley Drainage Authority to fund the maintenance and operation of the facility. Their current partnership agreement expires in May 2016.

In February 2015, Central Valley Water Board staff provided a detailed update to the Board about the control program that included an evaluation of alternatives to address the remaining impairment. The update also included a review of completed watershed studies, aeration facility operations and additional actions by NPDES permittees and other entities subject to Waste Discharge Requirements located in the upper San Joaquin watershed. Based on the current success of the control program, the Board directed staff to continue to implement the control program without revising the TMDL. In addition, the Board strongly

supported a long-term stakeholder agreement to ensure continued operation of the aeration facility and encouraged additional participation by other stakeholders.

The aeration facility has proven to be a successful and cost-effective method of increasing DO concentrations in the DWSC. The aeration device was first used in 2012 and has been operated each year since, although operating needs and conditions change each year. Since operations began, the annual rate of DO excursions (period of time when DO concentrations are less than the water quality objectives) for 2012 through 2014 has been 3% or less (Figure 1). From 2012 through 2014, aeration agreement partners spent about \$200,000 in total for operation and maintenance of the facility, which is only about a third of the initial cost estimate for a three-year operations schedule. The Port of Stockton and the other partners are currently developing a new aeration agreement that will replace the existing agreement that expires on 31 May 2016.



6. **Notice of Petition Requesting Changes in Water Rights of DWR and USBR for Cal Water Fix and Notice of Public Hearing and Pre-Hearing Conference to Consider the Petition**

The State Water Resources Control Board received a joint petition from the California Department of Water Resources and the U.S. Bureau of Reclamation to add three new points of diversion and/or points of re-diversion of water to 15 water rights permits for the State Water Project and Central Valley Project associated with the California Water Fix Project. The State Water Board will hold a pre-hearing conference on January 28, 2016 and continuing to January 29 (if necessary) to discuss the scope of the hearing and procedural issues associated with this joint petition. Commencement of the hearing is scheduled for April 7, 2016. More information on this pre-hearing and hearing can be found at:

http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/
Regional Board staff will be following this action as it proceeds.

PUBLIC OUTREACH

On 1 September Anthony Medrano participated in the monthly meeting of the Kern Environmental Enforcement Network (KEEN) meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 3 September, Ben Letton provided a presentation to the Bear Creek Watershed Group on Watershed Based Planning. The group may be interested in pursuing a Watershed Based Plan, as is currently being proposed in the Battle Creek Watershed.

On 8 September Anthony Medrano participated in the monthly meeting of the Fresno Environmental Reporting Network (FERN) meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 8 September, Janis Cooke, Laura McLellan, and Patrick Morris attended a meeting of the Delta Tributaries Mercury Council, which meets quarterly to share information and facilitate coordination. Key topics at this meeting were reducing methylmercury in lakes by limited nitrate addition (Lake Onondaga, NY) and near-bottom oxygenation (Santa Clara Valley Water District's reservoirs in the San Francisco Bay Region).

On 9 September, Lynn Coster attended the Shasta Tehama Water Education Coalition (STWEC) meeting in Red Bluff. Discussions included the proposed revision to Waste Discharge Requirements Order R5-2014-0030-R1 to clarify that a designee can participate in required outreach events on behalf of a third-party member. An update on member outreach and enrollment was also provided.

On 14 September, Bethany Soto participated in the Tulare Basin Integrated Regional Planning Effort which is a group of Integrated Regional Watershed Management (IRWM) practitioners from the Tulare - Kern Funding Area. The meeting focused on the IRWM implementation status of each of the individual practitioner's, in particular a discussion on the recently approved governance structure for Tule River IRWM, coordination with DACs within the Tulare Basin, and an update on formation of groundwater sustainability agencies within the Tulare - Kern funding area.

On 14 September, Sarah Rutherford participated in the Madera Integrated Regional Watershed Management Group meeting held in Madera to discuss routine business items. The group also discussed participation in the Sierra Water Work Group and identified the importance on continued relationship building efforts.

On 15 September, Shane Edmunds, Ben Letton and Guy Chetelat participated in the Battle Creek Working Group meeting held in Red Bluff. Topics included impacts from erosion and sediment discharge due to the Ponderosa Fire area, and a SWAMP funded study presented by UC Davis graduate student Jameson Henkle on hydrology and sediment loading in Battle Creek.

On 16 September, Doug Barber presented an overview of ammonia criteria within the NPDES program to the Northern Sacramento Valley Section of the California Water Environment Association (CWEA). The presentation outlined the EPA's 2013 recommended aquatic life criteria for ammonia and explained how these criteria were established. The 2013 recommended criteria were compared to the 1999 ammonia criteria to illustrate differences in limiting factors and the importance of pH and temperature data collection. Several municipal POTWs, industrial dischargers, and consultants were in attendance.

On 16 September, Sarah Rutherford attended the Tuolumne-Stanislaus IRWM, Watershed Advisory Committee meeting in Sonora. Sarah gave a presentation to the group regarding Proposition 1 funding administered by the State Water Board and funding available through Supplemental Environmental Projects administered by the Rose Foundation.

On 16 September, Ashley Shaddy met with Dave Cory and Joe McGahan for a tour of the Grassland Drainage Area.

On 16 and 17 September, Region 5 ILRP staff hosted the state-wide ILRP Roundtable. This is a quarterly meeting of State Board ILRP staff and staff representatives from all Regional Boards with Irrigated Lands

Programs. On the first meeting day, Region 5 staff presented information on surface water monitoring, data management, compliance and enforcement, and groundwater protection. The second meeting day was a field trip hosted by the East San Joaquin Water Quality Coalition. Attendees toured the Dry Creek Watershed north of the town of Waterford. Coalition representatives and growers provided on-farm discussions of pesticide and nutrient management, representative surface water monitoring, and management plan implementation.

On 17-18 September, Janis Cooke and Selina Cole attended the 12th Biennial State of the San Francisco (SF) Estuary Conference. The SF Bay Regional Monitoring Program's 2015 Pulse of the Bay was released at this event. Talks included new approaches to water quality management in the Bay area, information about how the drought and rising tides might affect the Bay and monitoring in the Delta in the next few years, and data and tools that can be used for sharing information with the public.

On 23 September, Alex MacDonald presented an update on the investigation and remediation efforts by Aerojet and the Boeing Company at the bimonthly meeting of the Aerojet Community Advisory Group. The update highlighted Aerojet's remediation efforts, field work, documents under review, implementation of remedial actions in the Perimeter Groundwater Operable Unit and Western Groundwater Operable Unit and the on-going investigation at several source areas of pollution on the Aerojet property and the Inactive Rancho Cordova Test Site.

On 24 September, Guy Chetelat participated in the lower Clear Creek restoration group meeting in Redding. Topics included impact of warm-water releases from Whiskeytown Dam due to the drought and high temperatures, and potential water quality impacts and benefits from a new restoration project on lower Clear Creek.

On 24 September, Alex MacDonald, along with Steve Nugent of the Carmichael Water District spoke to a group on a 2015 Groundwater Tour provided by the Water Education Foundation. The talk was at Aerojet Rocketdyne's GET LA facility in Ancil Hoffman Park. The presentation included a brief history of Aerojet and how the contaminant plume came to be beneath the park and how a collaborative effort between Aerojet, Carmichael Water District, the County of Sacramento and the Regional Board led to the GET LA facility and the reuse of the treated groundwater at the Ancil Hoffman Golf Course.

On 25 September, Chris Foe and Christine Joab met with Dr. Cliff Dahm, lead scientist of the Delta Science Program, to discuss the status of the Regional Board's efforts on the Delta Nutrient Research Plan.

On 25 September, Chris Foe and Christine Joab met with Dr. Cliff Dahm, lead scientist of the Delta Science Program, to discuss the status of the Central Valley Water Board's efforts on the Delta Nutrient Research Plan.

On 29 September, Bethany Soto attended a public meeting held by the Department of Water Resources (DWR). The meeting was soliciting comments on the DWR's draft Guidelines for the Sustainable Groundwater Planning Grant Program and draft Proposal Solicitation Package for the "Counties with Stressed Basins".

On 29 September, Sarah Rutherford attended a Proposition 1, Storm Water Grant Program and Plan Guidelines, public workshop in Fresno. The purpose of the workshop was to allow interested parties to provide oral comments on the Draft Plan Guidelines and the Draft Funding Guidelines.

On 30 September, Laura McLellan attended a quarterly community stakeholder group meeting for the Delta Mercury Exposure Reduction Program. Attendees received an update on the development of a low-literacy fish consumption advisory pier sign to be posted at locations throughout the Delta. Also discussed were a research project analyzing demographic information about Delta populations, the role of media advocacy in education about fish contamination, and an online educational tool the California Department of Public Health is developing to train community groups in effective communication of fish contamination messages.

On 30 September, Terry Bechtel presented to the California Association of Pest Control Advisers' (CAPCA) Continued Education meeting in Chico. Approximately 50 attended. All were PCA's. Most were also certified crop advisers (CCAs). The presentation included the ILRP basics, when a CCA is required to complete grower plans, how a PCA/CCA can bring added value to their clients by becoming aware of coalition monitoring,

management plans, and water quality objectives. The group was encouraged to add water quality evaluations when writing their recommendations.

On 2 October, Sarah Rutherford attended the Upper Mokelumne River Watershed Authority Governing Board meeting in Pardee. The Board discussed the scope and aftermath of the recent Butte Fire, the status of the Mokelumne Wild and Scenic River bill, and partnership agreements with several federal agencies.

On 5 October, 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 an update on IRWM implementation status of each group, coordination with DACs within the Tulare Basin, and an update on formation of Groundwater Sustainability Agencies (GSAs) within the Tulare - Kern funding area.

On 6 October, Bethany Soto participated in the Tule River Basin Integrated Regional Water Management meeting. The meeting focused on the recent approval of their governance structure and appointing members to the their governing board and advisory committee, the review of the Integrated Regional Water Management Plan for submittal to DWR, the list of proposed projects, and grant opportunities.

On 6 October, Anthony Medrano participated in the monthly meeting of the Kern Environmental Enforcement Network (KEEN) meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 8 October Anthony Medrano participated in the quarterly Cal EPA Environmental Justice Roundtable to discuss current and future outreach activities.

On 8 October, Sue McConnell, Susan Fregien, David Sholes, Ashley Shaddy, Patrick Barnes, and Sarah Rutherford attended an ILRP Stakeholder Meeting at the Stanislaus Farm Bureau in Modesto, CA. The meeting was an open forum between Water Board staff, agricultural coalitions, environmental justice groups and other interested parties, to discuss regulatory options for managed wetlands in the region.

On 12 October, Sarah Rutherford participated in the Madera Integrated Regional Watershed Management Group meeting held in Oakhurst. Sarah gave a presentation to the group regarding Proposition 1 funding administered by the State Water Board and funding available through Supplemental Environmental Projects administered by the Rose Foundation. Elissa Brown, from the Sierra Nevada Conservancy discussed additional funding opportunities available for conservation projects.

On 13 October, Anthony Medrano participated in the monthly meeting of the Fresno Environmental Reporting Network (FERN) meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 21 October, Debra Mahnke attended the Association of Environmental Professionals - Central Chapter meeting in Fresno. The U.S. Army Corps of Engineers gave a presentation on the Clean Water Act Section 404 requirements, and Debra gave a presentation on Section 401 permitting and state requirements for permitting projects in non-federal waters.

On 21 October, Bethany Soto participated in the Upper Kings Basin Integrated Regional Water Management Authority, Board of Directors meeting. The meeting focused on staff reports, planning and implementation contracts, coordination, public information, legislation, administrative items, and recommendations for approval by the Board.

On 21 October, Sarah Rutherford attended the Tuolumne-Stanislaus IRWM, Watershed Advisory Committee meeting in Sonora. The group discussed ongoing business items as well as potential future planning to apply for Proposition 1 funding. The group also heard a presentation on small hydro power projects and recent technological developments.

On 22 October, Alex MacDonald presented an update on the Aerojet Rocketdyne cleanup efforts, and James Taylor and Walter Floyd presented an update on the former McClellan Air Force Base to the Regional Groundwater Authority (RGA) of Sacramento. This group is made up of water purveyors in Sacramento County

north of the American River. The Aerojet presentation highlighted groundwater remediation efforts in the Western Groundwater Operable Unit which includes areas within the RGA boundaries, focusing on the results of new monitor wells helping to define the plume of n-nitrosodimethylamine in the Carmichael Water District Area and allow for an evaluation of the expansion of the existing groundwater remedy. The discussion on McClellan focused primarily on hexavalent chromium in groundwater on and around McClellan and impacts on the near-by Rio Linda Water District.

On 22 October, Bethany Soto and Sarah Rutherford participated in the Sustainable Groundwater Management Act (SGMA) Information Meeting. The meeting purpose was to inform stakeholders of the roles and involvement of DWR and the State Water Board in relation to SGMA, provide information on financial and technical resources, and included an open discussion on the status of SGMA implementation in local basins.

On 23 October, Lynn Coster attended an Agriculture Water Stewardship Ranch Tour and Annual Membership Meeting of the Upper Feather River Watershed Group held in Loyalton. A presentation was given on the requirements for participation in the Reduced Monitoring / Management Practices Verification Option.

On 23 October, George Low, Rebecca Tabor, Ashley Hampton, and Monique Gaido participated in the Annual Ignite Opportunity Science, Technology, Engineering, and Mathematics (STEM) Career Day event held at the Shasta County District Fairgrounds in Anderson. The purpose of our involvement was to present the Central Valley Water Board's role in protecting water quality throughout the region. We also highlighted STEM career opportunities that are available within the Central Valley Water Board. This event was attended by approximately 1,500 North State high school freshman students from Shasta, Trinity, Tehama, Siskiyou, Lassen and Modoc counties.

On 26 October, Christine Joab attended the American River Basin Integrated Regional Water Management meeting. The group discussed Prop 1 IRWM Program funding, current regional water resource conditions and water conservation savings and status of IRWM proposed projects.

On 26 October Anthony Medrano participated in the Stakeholders Oversight Advisory Committee (SOAC) for the Tulare Lake Basin Disadvantaged Communities water study to discuss recent and recommended activity related to DAC water and wastewater solutions.

On 27 October, Guy Chetelat attended the Sacramento River Watershed Group annual stakeholders meeting in Sacramento. The meeting covered stakeholder reports, developments in watershed management (including a presentation by Adam Laputz), ecosystem services, and a Maidu tribal presentation on the upper Feather River.

On 28 October, Adam Laputz, Clay Rogers, Sue McConnell and Glenn Meeks met with representatives of the East and Westside San Joaquin, San Joaquin County and Delta, Sacramento Valley, and Westlands Coalitions to discuss the Management Practices Evaluation Program (MPEP) Group approach. The objective of the MPEP is to identify management practices that are protective of groundwater quality. The Coalitions will be developing a draft MPEP Study Plan by March 2016.

On 29 October, Bethany Soto participated in the Tule River Basin Integrated Regional Water Management, Advisory Committee meeting. The meeting focused on the organization of the advisory committee and governing board, the review of the Integrated Regional Water Management Plan for submittal to DWR, the list of proposed projects, and grant opportunities.

On 29 October, Sue McConnell met with Jennifer Clary, Laurel Firestone, Jenny Rempel and Deborah Ores to discuss the ILRP groundwater protection program. The environmental justice representatives were interested in time-lines for groundwater management tasks and being actively engaged in the process.

On 2 November, 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 included an update on the IRWM implementation status of each group, coordination with DACs within the Tulare Basin, and a discussion on required updates to IRWM Plans to meet eligibility requirements for the Prop 1 Stormwater Funding.

On 4 November, Clint Snyder spoke at the Low Impact Development Regional Conference, LID – from Regulations through Compliance to Implementation, hosted by the American Basin Council of Watersheds and Office of Water Programs at Sacramento State. The Conference was held at Sacramento State University and was well attended. The focus of the Regional Board’s talk was the Board’s new MS4 General Order (currently under development), proposed LID and hydromodification requirements, and alternative compliance options. The Conference was also attended by Bryan Smith, Elizabeth Lee, and Dannis Berchtold.

On 12 November, Terry Bechtel and Scott Perrou presented to the Sutter County Ag Commissioners annual grower meeting regarding current ILRP status, grower requirements and Nitrogen Management Plans.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATE

September 1, 2015 through October 31, 2015

Promotion:

John (Ben) Letton – Sr. Engineering Geologist

Leave of Absence:

Diane Beaulaurier – Environmental Scientist
 Stacy Gotham – Water Resource Control Engineer

Retirement:

Barry Hilton – Water Resource Control Engineer

Authorized Positions: 243.7

Vacant Positions: 22

Separations	New Hires
Mary Boyd – Water Resource Control Engineer Trevor Cleak – Environmental Scientist Chris Foe – Sr. Environmental Scientist Fred Mason - Engineering Geologist	Dina Calanchini – Engineering Geologist Nicolette Dentoni – Water Resource Control Engineer Jacqueline Gonzales – Office Assistant

Temporary Help Positions

Separations	New Hires
Rebecca Greenwood – Scientific Aid Leighann Whittier - Scientific Aid	Sumera Kandhro – Scientific Aid Singleton Thibodeaux-Yost - Scientific Aid George Garrigus – Scientific Aid Joseph Draper – Scientific Aid Zaira Lopez-Narvaez – Scientific Aid

TRAINING UPDATE

September 1, 2015 through October 31, 2015

Class	Number of Attendees
2015 California Aquatic Bioassessment Workgroup meeting	1
2015 CWA NPDES National Technical Inspector Worksho	2
CA Aquatic Bioassessment Workgroup	9
CAL/EPA Basic Inspector Academy	1
CalHR Supervisor's Academy (10 Day Cohort)	2
CASQA 2015 Conference	3
Certified Erosion, Sediment and Storm Water Inspector Exam Review Course	1
CPESC Review and Exam	1
CSCI Calculation Workshop	1
Defensive Drivers Training	17
Desktop GIS	1
Editing for Managers	5
Envirocert CPESC Review Course and Exa	8
Ethics Orientation for State Officials	2
Excel 2010 - Part 1	1
Getting Better at Performance Evaluation (Leadership Course	6
Groundwater Modeling	3
Hazardous Fuels Reduction Demonstration	1

Highly Effective Professional Writing	19
Introduction to Environmental Statistics	1
Leadership Education Training	1
Maintaining a Respectful Work Environment	7
Managing Priorities, Managing Time	3
Mastering Microsoft Excel	1
NHD and Watershed Boundary Dataset Technical Workshop	2
Security Awareness Training 2015	108
Sovereign Citizens - Officer & Inspector Safety Awareness	2
State of the Estuary Conference	3
State Supervisory Training Certificate Program	3
Technical Inspector Training	1
Water Quality Monitoring Design	3

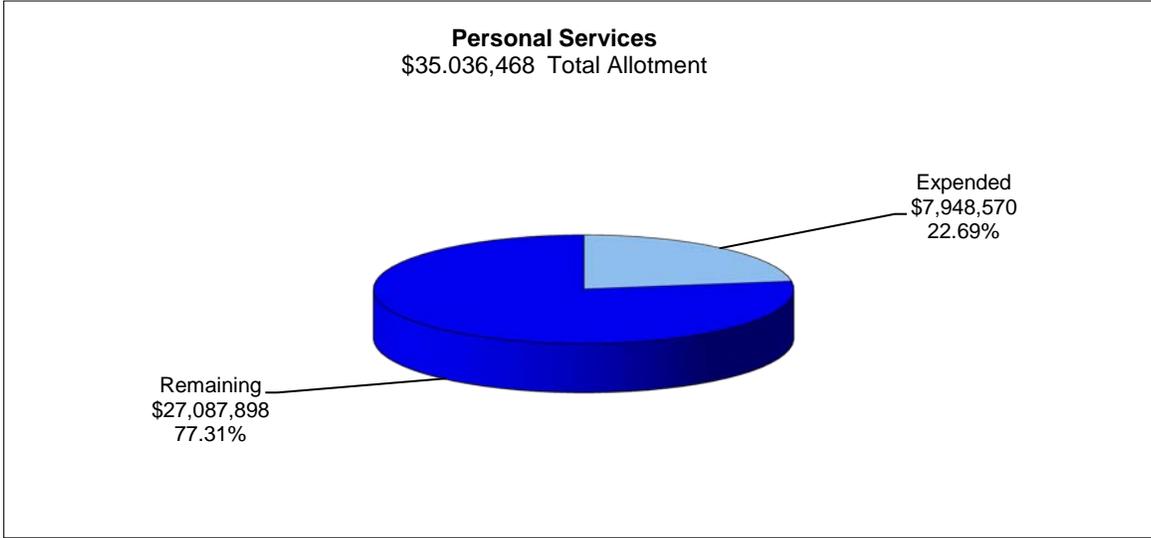
FISCAL UPDATE

Through September 30, 2015

(Approximately 25% should have been expended to date)

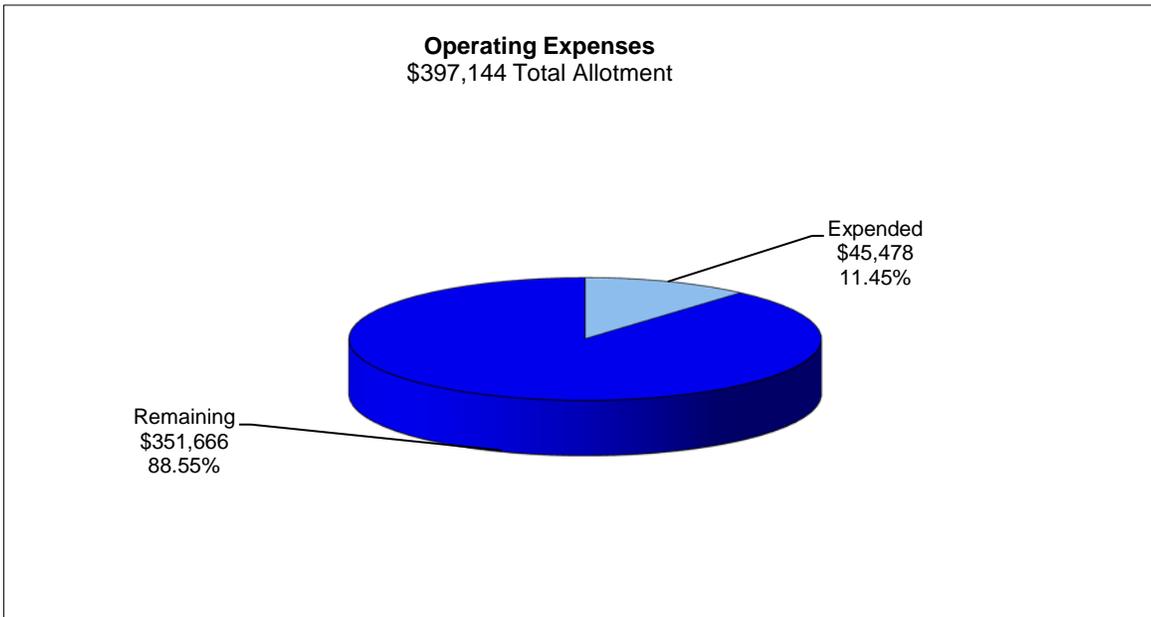
Personal Services:

Our Personal Services budget for the 2015-16 Fiscal Year is \$35,036,468.



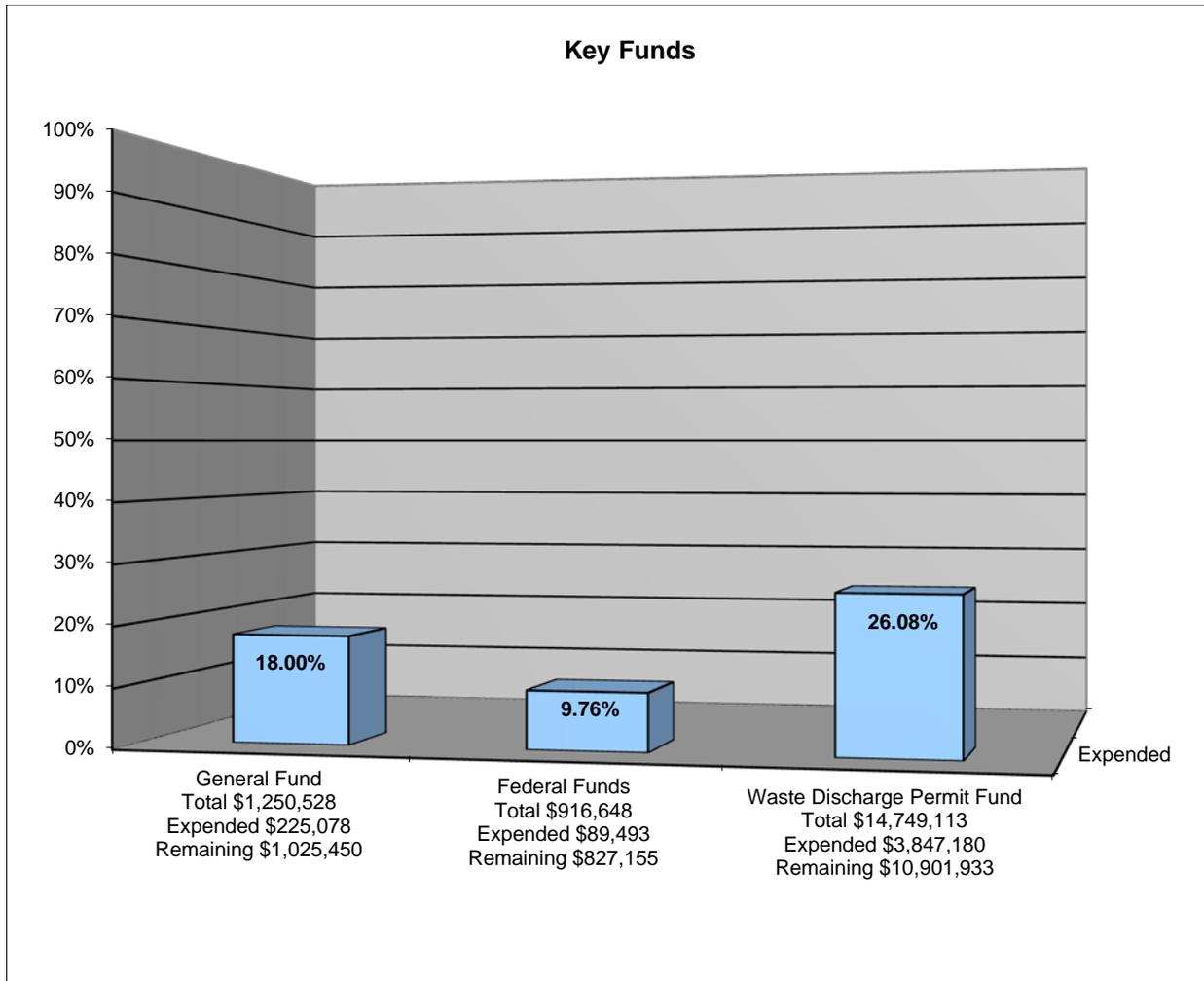
Operating Expenses:

Our Operating Expense budget for the 2015-16 Fiscal Year is \$397,144.



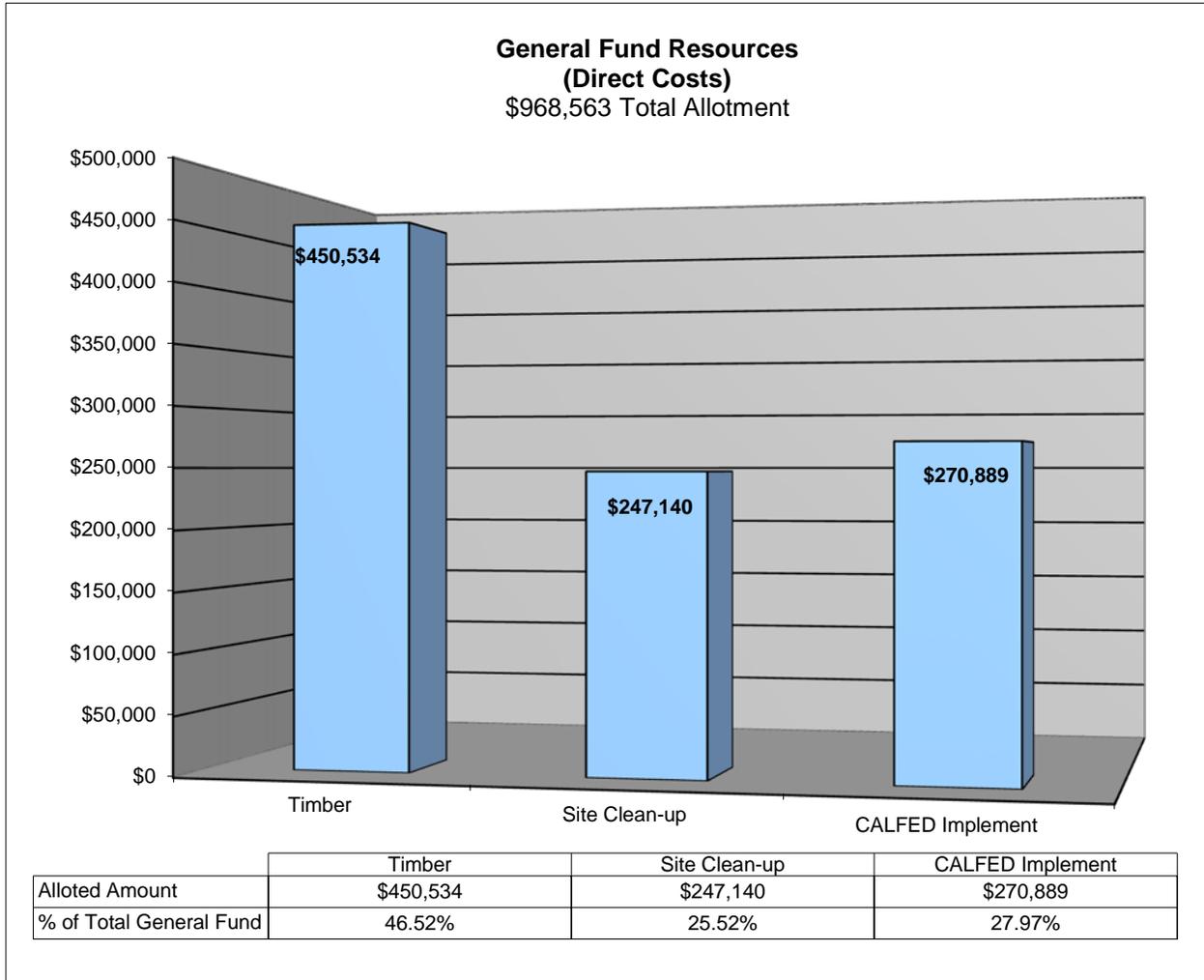
Key Funds

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 2015-16 Fiscal Year is \$968,563. 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

Contract #	Contractor Name	Description	End Date	Amount
Administrative Support Services				
TBD	California Reporting	On-Site Court Reporter Services	6/30/2018	\$36,000
TBD	California Reporting	Off-Site Court Reporter Services	6/30/2017	\$4,999
Operational Support Services				
15-150-D1	SJ State Research Foundation	Mercury Program/Reservoir	3/31/2018	\$200,000
15-011-150	TBD	Lab Analysis – Fresno	06/30/2016	\$65,000
15-011-150	TBD	Lab Analysis - Redding	06/30/2016	\$55,000
13-051-150 Am. 1	Excel Chem Environmental Laboratories	Lab Analysis - Rancho Cordova	06/30/2016	\$80,000
15-023-150	Air Shasta Rotor & Wing	Helicopter Services	9/30/2017	\$40,000
Water Quality Study/Planning				
09-076-150	San Joaquin Valley Drainage Authority	CV-Salts - Phase 1	5/14/2016	\$1,200,000
11-123-555	San Joaquin Valley Drainage Authority	CV-Salts - Phase 2	12/1/2016	\$3,800,000
13-080-150	Aquatic Science Center	Delta Regional Monitoring	3/30/2016	\$250,000
13-093-150	Delta Conservancy	Delta Mercury Exposure Program	3/1/2018	\$370,000
13-103-150	California Department of Fish & Wildlife	Stream Health Assessment	9/30/2016	\$42,537
13-105-150	The Regents of UC Davis	Butte Creek Sediment	9/30/2016	\$44,901
13-117-150	California Department of Food & Agriculture	Dairy Digester Study with UC Davis	6/30/2016	\$200,000
14-025-150	Delta Conservancy	Delta Mercury Exposure Reduction Program	6/30/2017	\$370,000
14-030-150	USGS	Urban and Agriculture Pesticide Monitoring	6/30/2017	\$175,000
14-100-150	The Regents of UC Davis	Large Scale Analysis of Annual Report Data	3/31/2017	\$150,000

FUTURE BOARD ACTIVITIES

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

FEBRUARY 2016 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Corcoran State Prison WWTF (Revised WDRs)
- Ardagh Glass (Revised WDRs)
- Sierra Pacific Industries – Chinese Camp (Revised WDRs)
- Goldstone Lands Co., Bear Creek Winery (Revise WDRs)

NPDES

- Grass Valley Permit Renewal
- Olivehurst WWTP Permit Renewal
- Chester PUD Permit Renewal
- Cities of Turlock and Modesto (NVRWP) New Permit

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Altamont Class II/III Landfills and Class II Surface Impoundment (Revised WDRs)
- Recology Hay Road Class II Landfill, Land Treatment Unit (Revised WDRs)
- Kiefer Landfill, Sacramento County (Revised WDRs)
- Woodlake Landfill (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- NMP Summary Report Info Item

CONFINED ANIMAL PROGRAM

OILFIELD PROGRAM

APRIL 2016 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Rio Alto Water District (New WDRs replacing NPDES Permit)
- Shasta Renewable Energy (New WDRs)
- Langer Farms (Revised WDRs)
- Monarch Nut Company (Revised WDRs)
- Treehouse Almonds (Revised WDRs)
- Harris Ranch Selma Beef Processing (Revised WDRs)
- City of Mendota (Revised WDRs)
- City of Lathrop Consolidated Treatment Facility (Revised WDRs)
- Delta Packing (new WDRs)
- Live Oak Permit Renewal
- City of Chico WPCP Permit Renewal
- City of Portola WWTP Permit Renewal
- City of Auburn WWTP Permit Renewal
- Sacramento Regional County Sanitation District Permit Renewal
- Sterling Caviar Permit Renewal

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Royal Mountain King Mine, Calaveras County (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

OILFIELD PROGRAM

PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PROGRAM – PERMITTING

- Bear Valley WWTP Permit Renewal
- Cities of Turlock and Modesto New Permit
- City of Auburn WWTP Permit Renewal
- City of Chico WPCP Permit Renewal
- City of Portola WWTP Permit Renewal
- Colusa Permit Renewal
- Lincoln Village Center GWT Permit Renewal
- Live Oak Permit Renewal
- Oroville WWTP Permit Renewal
- Quincy CSD WWTP and Collection System Permit Renewal
- Santa Fe Aggregates Sand and Gravel Plant Permit Renewal
- SPI Shasta Lake Division Permit Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISPOSAL TO LAND

- Bully Hill Rising Star Mines (New WDRs)
- Calaveras County Water District, Copper Cove WWTF (Revised WDRs)
- City of Lathrop Crossroads/Consolidated Treatment Facility (Revised WDRs)
- City of Laton WWTF (Revised WDRs)
- City of Manteca WWTF
- City of Richgrove WWTF (Revised WDRs)
- City of Tuolumne WWTF (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Los Gatos Tomato (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- Pleasant Valley State Prison WWTF (Revised WDRs)
- Spanish Mine, Nevada County (New WDRs)
- Strathmore WWTF (Revised WDRs)
- Sun Pacific/Califia Farms (Revised WDRs)
- Tasteful Selections (Revised WDRs)
- Tesoro Viejo WWTF (New WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Anderson Class III Landfill (Revised WDRs)
- Calaveras Cement Mine, Calaveras County (Revised WDRs)
- Yolo County Landfill, Yolo County (Revised WDRs)

STORM WATER PROGRAM - PERMITTING

- Central Valley Region-wide MS4 General Permit
- City of Modesto – Approval of Updated Storm Water Management Plan

PERMITS AND POLICIES TABLE

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-14	Central Valley Diazinon and Chlorpyrifos Basin Plan Amendment	2015-10-22 Amendment addressing chlorpyrifos and diazinon in hundreds of valley floor rivers, streams and creeks adopted by Regional Board on 28 March 2014. Approved by the State Water Board on 16 June 2015. Requires OAL and USEPA approval before becoming effective. (Staff contact, Danny McClure)	Regional	R5
A-14	Nonpoint Source (NPS) Implementation and Enforcement Policy Amendments	2015-09-22 The NPS Implementation and Enforcement Policy (NPS Policy) is being updated to preclude the use of prohibitions of waste discharge for addressing NPS discharges for those land uses (e.g., irrigated lands) already covered under other regulatory mechanisms (e.g., waivers of waste discharge requirements) for which discharger enrollment fees are being assessed. Staff anticipates releasing a draft of the NPS Policy amendments in December 2015.	Statewide	SB
A-14	Implement Lower San Joaquin River Salt/Boron TMDL	2015-11-03 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. At the 4 December 2014 Central Valley Water Board meeting, both an updated MAA with the USBR and a phased RTMP were approved through Resolutions R5-2014-0150 and R5-2014-0151, respectively. Salt load allocations have also been 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 a request for an Addendum by 31 October 2015. USBR submitted a letter to extend the deadline of the addendum to 30 November 2015. (Staff contact, James Brownell)	Regional	R5
A-14	Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan	2015-10-29 Staff prepared draft toxicity amendments and a staff report. Staff released the draft documents for public review and received comments in summer 2012. Those comments are currently under review. Considering these comments and the Water Board's mandates, staff is preparing a revised draft staff report and environmental document. Once the draft documents are revised, staff will initiate additional stakeholder outreach and circulate the draft documents for public review. Staff expects to release the draft documents in early 2016.	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-14	Organochlorine Pesticides in the Sacramento River and San Joaquin River Basin Plan	2015-10-22 Regional Board completed CEQA Scoping meeting in July 2009. A draft summary report on OC pesticides was completed in December 2014. Final report will be completed in winter 2015/16. □	Regional	R5
A-15	General Order for Poultry Facilities	2015-10-19 General Order for poultry raising and egg laying facilities. Issue paper review completed. Drafting of GO has begun. Meeting held on 25 August 2015 with poultry industry representatives to discuss proposed approach for General Order.	Regional	R5
A-15	Central Valley Pyrethroids Basin Plan Amendment	2015-10-22 In development. Scoping meeting held in October 2012. Stakeholder meetings held in Sept-Nov 2014, May 2015. Was sent to peer review in Summer 2015. A public review draft is scheduled to be released for public comment in late 2015 and Board consideration in Spring 2016.	Regional	R5
A-15	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.	2015-11-03 Regional Board completed CEQA Scoping meeting in March 2009. Development of proposed water quality objectives being conducted the stakeholder driven, CV-SALTS Lower San Joaquin River sub-committee. The Amendment is tentatively scheduled for a workshop in June 2016 and consideration by the Regional Board in later 2016. Status report provided to Regional Board on 28 March 2014.	Regional	R5
A-15	Central Valley Diuron Basin Plan Amendment	2015-10-22 In development. Scoping meeting held in October 2012. Scheduled for peer review draft release in late 2015, Board Hearing in Spring/Summer 2016. (Staff contact, Danny McClure)	Regional	R5

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-15	Strategy to Optimize Resource Management of Storm Water	2015-10-16 State Water Board staff engaged with stakeholders statewide to identify and discuss storm water program issues and potential approaches to address them. The product of this collaboration will be a prioritized list of potential Water Board actions that identifies ways to expand the breadth of the storm water program to utilize our regulatory role with management of storm water to better focus on incentive-driven, multiple-benefit approaches that achieve tangible results in terms of both improved water quality and supply. The State Water Board held a workshop on August 19, 2015 where there was overall support of the concept to treat stormwater as a resource. A draft stormwater strategy will be presented to the board in December 2015 for consideration.	Statewide	SB
A-15	Region-wide General Order for MS4s	2015-11-16 Permittee Working Group meetings ongoing, latest 3 November 2015. Focused meetings with environmental community in January and February 2015. Admin draft permit expected December 2015. (Staff contact, Bryan Smith)	Regional	R5
A-15	Revision of General Order for Existing Dairies	2015-10-19 Revision of General Order R5-2013-0122 to include requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements. Will follow issuance of bovine feedlot order.	Regional	R5
*A-16	Wetland Area Protection and Dredge and Fill Permitting Policy – Phase I	2015-10-19 State Water Board staff is preparing a draft staff report. This includes the draft policy language and the accompanying draft Substitute Environmental Document (SED). Staff expects to release the proposed policy and SED for public comments May 2016.	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-16	Phase I update of the Bay-Delta Plan:- San Joaquin River flows and southern Delta salinity.	2015-10-21 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 late 2015. Draft plan amendment to be brought to the Board for consideration by late 2015 or early 2016.	Statewide	SB
A-16	Statewide General NPDES Permit for Vector Control Applications	2015-10-29 The Statewide General NPDES Permit for Vector Control Applications will expire in February 2016. Staff is drafting the permit for reissuance by the State Water Board. The change to the permit is the addition of language that delegates the State Water Board's authority to the Executive Director or his/her designee to: (1) add active ingredients that are registered by the Department of Pesticide Regulation for vector control along with their receiving water limitations which shall be consistent with the water quality objectives in the California Ocean Plan and Regional Water Board Basin Plans, and the California Toxics Rule criteria; and (2) grant exceptions to qualified dischargers from meeting priority pollutant receiving water limitations pursuant to section 5.3 of the State Implementation Policy. Staff anticipates releasing the draft permit on December 28, 2015 for a 30 days public comment period, and presenting the item to the State Water Board on March 1, 2016 for consideration.		
A-16	Mercury TMDL and Water Quality Objectives (Reservoirs)	2015-10-16 Staff from Regions 2, 5, and State Board are developing a TMDL and implementation plan to address fish mercury impairments in about 150 reservoirs around the state. Staff is preparing the scientific and technical analysis (source analysis, linkage, targets, allocations, and implementation plan considerations), and regulatory provisions for the objectives, implementation plan, and TMDL. Focused stakeholder group meetings were held in 2014. In addition, staff met with a reservoir operators focus group four times to discuss and develop ideas and criteria for water chemistry and fisheries management pilot studies. Staff is preparing the staff report for submittal to peer review this fall.	Statewide	R5
A-16	Bacteria Standards for Ocean and Inland Surface Waters	2015-10-20 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 (currently under development) and the California Ocean Plan. State Water Board staff compiled comments from focused stakeholder meetings held in 2014 and 2015. See http://www.swrcb.ca.gov/bacterialobjectives/docs/notice_bacteria_objectives.pdf for more information about the Scoping Meetings. The comment period for the scoping document ended on February 20, 2015, and 23 comment letters were received. Staff is preparing the Staff Report. Staff plans to release draft documents for public review and comment in March of 2016. State Board Web site: http://www.waterboards.ca.gov/bacterialobjectives/	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Nutrient Numeric Endpoints Tools	<p>2015-11-04 Staff is working with technical advisory groups to produce an implementation strategy document. U.S. EPA contracted to have nutrient numeric endpoint protocol updated with results of case studies and lessons learned. In 2014, staff organized a stakeholder advisory group, a science advisory group, and expanded a regulatory advisory group for the nutrients in wadeable streams project. The Science Panel met at a Southern California Coastal Watershed Research Project meeting in June 2015 to review the science plan. The Science Panel was generally supportive of the Science Plan. A written report from the Science Panel is forthcoming. Webinars were held for stakeholders on August 21 and 26, 2015 to discuss the results of modeling approaches. Staff plans to continue outreach efforts by having Focus Group meetings from January 2016 to June 2016. An outreach document will be available for public review in January 2016.</p>	Statewide	SB
A-17	Methylmercury Objectives	<p>2015-10-21 Staff is preparing draft regulatory language and a draft staff report and coordinating with the staff developing the statewide mercury TMDL for reservoirs. Focus group meetings began in June 2014 and continued through October 2014. The purpose of the meetings was to collect feedback from tribes and other stakeholder groups on the project framework. In October 2014, staff met with regional board representatives and conducted additional outreach to tribes. The draft staff report and the draft regulatory language are expected to be sent for peer review in November or December 2015.</p>	Statewide	SB
*A-17	Antidegradation Policy	<p>2015-11-03 The State Water Board is considering preparation of guidance or an additional policy to address application of the Antidegradation Policy to groundwater. Staff distributed a scoping document in June 2015 to participants of focused stakeholder group meetings, and held these meetings in June and July 2015 to receive comments on the scoping document. Staff received input during these meetings and has summarized the comments received to date in preparation for Board member and Executive management briefings. Staff is also in the process of executing a contract with UC Davis to develop tools to aid in implementation of the antidegradation policy for groundwater and the WDR permitting process. The project web page contains summaries of purpose, background, and process; an estimated time line; and links to associated documents. Web page link: http://www.waterboards.ca.gov/plans_policies/antidegradation.shtml</p>	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Biological Integrity Plan Development	2015-10-21 State Water Board staff is developing a proposed Implementation Plan for Assessing Biological Integrity of perennial freshwater streams. The goal is to set biological expectations to ensure protection and restoration of aquatic life beneficial uses in these waterbodies and to incorporate additional bioassessment monitoring and assessment into the Water Boards regulatory programs. Staff is revising the existing draft Biological Integrity Plan based on the feedback from stakeholders and advisory groups. A revised Draft Plan is scheduled to be released for outside stakeholder input by early 2016.	Statewide	SB
A-17	Blue Green Algae Action Levels	2015-10-19 The Water Board staff is working with a multi-agency workgroup, consisting of the Water Board, CDPH, OEHHA, and US EPA, to update the Draft Voluntary Guidance Document for CCHABs, related to monitoring and posting public notices. Staff is also coordinating with the Monitoring Council to continue to work issues related to CCHABs	Statewide	SB
A-17	Sediment Quality Objectives (SQOs) for Enclosed Bays and Estuaries: Phase II	2015-10-29 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. Staff anticipates that the case study and test drive will be completed by late next year followed by release of draft documents in February 2017.	Statewide	SB
*A	Onsite Wastewater Treatment Systems Policy Implementation	2015-10-21 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 8. State and Regional Water Board staff have been meeting with Local Agencies to facilitate LAMP development.	Statewide	SB
A	Water Effects Ratios	2015-10-30 Staff is currently conducting research in preparation for the proposed Water Effects Ratio Policy. This project would provide guidance on developing water effect ratios.	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A	New winery waste guidelines	2015-10-20 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated.	Regional	R5
A	Groundwater Quality Protection Strategy	2015-11-04 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 Workplans for the highest priority actions were provided in June 2012 and December 2013. At the December 2013 meeting a workplan for June 2013 - June 2015 was approved that included the unfinished high and medium priority actions. Staff is currently working on an update to the Roadmap to be presented in an Information Item at the February 2016 Central Valley Water Board meeting. (Staff contact person, Pam Buford)	Regional	R5
A	Chlorine Residual Objectives and Implementation	2014-08-06 The scientific peer review is complete. The report and policy will be revised as necessary to address peer review comments. This project is pending management prioritization.	Statewide	SB
C	Implement Mercury TMDL/Control Program in Cache Creek Watershed - Sacramento River and San Joaquin River Basin Plan	2015-10-16 Mining waste at six mercury mines in the upper Cache Creek watershed was tentatively scheduled to be consolidated and covered in 2014 to prevent continued erosion of mercury sediment into Sulphur Creek, a tributary to Cache Creek. Permitting delays associated with review and approval of the project by the US Army Corps of Engineers will likely delay implementation of the planned cleanup until Summer 2015. The six mercury mines included in this cleanup include the Central, Cherry Hill, Empire, Manzanita, West End, and Wide Awake. Staff is working with the mine owners in the upper Davis Creek watershed to address their mercury mines.	Regional	R5

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
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	<p>2015-10-20 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 completed 20 January 2015. Central Valley Water Board workshop conducted 16 April 2015. (Staff contact person, Jeanne Chilcott)</p> <p>□</p>	Regional	R5
A	Cadmium Objective and Hardness Implementation Policy	<p>2015-10-29 In response to a Jeopardy Biological Opinion by the National Marine Fisheries Service on U.S. EPA's 304(a) recommended acute aquatic life cadmium criterion in the state of Oregon, U.S. EPA's Office of Water is updating its national cadmium criteria. Currently, staff is awaiting U.S. EPA direction to states. This action will be a priority for U.S. EPA once the revised criteria are issued.</p>	Statewide	SB
A	Phase II Small Municipal Separate Storm Sewer System (MS4) Permit Amendment	<p>2015-11-04 State Water Board staff is working with Regional Water Board staff in developing the proposed amendment of Attachment G (titled Region-specific Total Maximum Daily Loads Implementation Requirements) of the existing Phase II Small MS4 Permit to include TMDL implementation requirements. Staff is currently developing a schedule.</p>	Statewide	SB
A	General Order for Bovine Feedlots	<p>2015-10-19 General Order to regulate bovine feedlots (other than dairies - e.g., heifer facilities, calf raising facilities, beef cattle facilities). Current draft is being modified to include new and expanding facilities, composting provisions, and surface water monitoring provisions.</p>	Regional	R5
P	Suction Dredge General Permit	<p>2015-10-20 State Water Board staff considered development of a statewide general order to protect water quality from impacts related to suction dredge mining. This effort is suspended during the pendency of the suction dredge moratorium imposed by the Department of Fish and Wildlife. Pursuant to the moratorium, suction dredging, including the method known as booming, continues to be prohibited within 100 yards of any California river, stream or lake (Fish & G. Code, section 5653 subd. (d).). 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 held issued before the moratorium was imposed. Staff is not proposing to develop a general permit at this time. Water Boards staff will consult with the Department of Fish and Wildlife and affected stakeholders in order to determine whether/when to recommend developing a general permit.</p>	Statewide	SB

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
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	2015-09-02 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 rejected by State Board. Staff gathering additional information to respond to State Board and USEPA comments. Expected completion date 2016.	Regional	R5
P	New Manual of Good Practice for Land Application of Food Processing/Rinse Water	2015-10-20 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated.	Regional	R5
		LEGEND		
		Orange = Targeted for completion in 2015 (A-15)		
		Light Green = Targeted for completion in 2016 (A-16)		
		Lavender = Targeted for completion in 2017 (A-17)		
		Gray = Suspended or No statewide effort at this time or Pending (P)		
		Note: * indicates Board Priority		

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - July through August 2015

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	Amador City CS	55SO10863	816651	Certified	Category 1	Amador Creek just below the Amador City Aeration Pond	Amador	Yes	45,000	45,000	7/4/2015	Other (specify below)	
SS	El Dorado Hills CS	55SO10941	817649	Certified	Category 2	EDH-2015-08-02	El Dorado	No	22,940	0	8/21/2015	Pipe Structural Problem/Failure - Installation	
SS	Ironhouse Sanitary District CS	55SO10970	817253	Certified	Category 2	Air Relief Vault	Contra Costa	No	18,000	0	8/9/2015	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	City of Stockton MUD CS	55SO11433	817083	Certified	Category 2	2800 Shimizu Dr.	San Joaquin	No	12,000	0	8/2/2015	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
5F	Tehachapi Correctional Inst CS	55SO10763	817591	Certified	Category 2	CCI Tehachapi, Facility E Clark Hall	Kern	No	4,000	0	8/24/2015	Debris-Rags	
SS	Sacramento Area Sewer District CS	55SO10912	816766	Certified	Category 1		140830	Yes	3,225	2,695	7/21/2015	Debris from Construction	
SS	Deer Creek CS	55SO10923	817280	Certified	Category 2	DC-2015-08-05	El Dorado	No	1,300	0	8/6/2015	Pipe Structural Problem/Failure	
SS	Hangtown Creek CS	55SO10965	817348	Certified	Category 1	1040 Marshall Way, Placerville, CA	El Dorado	Yes	1,250	1,250	8/9/2015	Debris-Rags	
SS	Hangtown Creek CS	55SO10965	817344	Certified	Category 1	1040 Marshall Way, Placerville, CA	El Dorado	Yes	950	950	8/9/2015	Debris-Rags	
SS	Rancho Marieta Community Service District CS	55SO11487	817616	Certified	Category 1	behind 7003 Lindero Lane	Sacramento	Yes	850	50	8/24/2015	Debris from Construction	
SS	White Slough Water Poll Con Pu CS	55SO11084	817397	Certified	Category 3	Reynolds Ranch subdivision	San Joaquin	No	847	0	7/16/2015	Other (specify below)	
SS	Sacramento Area Sewer District CS	55SO10912	817733	Certified	Category 3		141590	No	715	0	7/30/2015	Debris-Rags	
SS	Hangtown Creek CS	55SO10965	817598	Certified	Category 3	1350 Carson Road, Placerville, CA	El Dorado	No	625	0	8/22/2015	Debris-General	
5F	Kern Sanitation Authority CS	55SO10737	816832	Certified	Category 3	2308 Berger, Bakersfield, CA	Kern	No	500	0	7/24/2015	Grease Deposition (FOG)	
5F	Tehachapi Correctional Inst CS	55SO10763	817126	Certified	Category 3	California Correctional Institution (CCI) Tehachapi	Kern	No	500	0	8/3/2015	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	817723	Certified	Category 3		141190	No	456	0	7/25/2015	Air Relief (ARV)/Blow-Off (BOV) Valve Failure	
SS	City Of Antioch CS	55SO10890	816825	Certified	Category 3	618 W 7th Street, Antioch, CA 94509	Contra Costa	No	439	0	7/16/2015	Debris-General	
5F	El Portal CS	55SO10735	816754	Certified	Category 3	EPU Manhole #49, Along HWY 140, El Portal	Mariposa	No	400	0	7/21/2015	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	
SR	MT Shasta CS	55SO10835	817394	Certified	Category 1	Merritt and South B	Siskiyou	Yes	250	200	8/16/2015	Debris-General	
SS	Hangtown Creek CS	55SO10965	817139	Certified	Category 3	1350 Carson Road, Placerville CA	El Dorado	No	250	0	8/1/2015	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	817705	Certified	Category 3		140682	No	232	0	7/18/2015	Root intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	818415	Certified	Category 3		141844	No	218	0	8/3/2015	Root intrusion	
SS	Sacramento Executive Airport CS	55SO11604	816357	Certified	Category 3	Executive Airport South Ramp	Sacramento	No	210	0	7/2/2015	Other (specify below)	
SS	Bear Valley CS	55SO10973	816680	Certified	Category 3	133 Lake Road	Alpine	No	200	0	7/5/2015	Root intrusion	
SS	City Of Bakersfield CS	55SO11320	816753	Certified	Category 3	8rd 274 Marina View Ca	Madera	No	200	0	7/19/2015	Other (specify below)	
5F	Atwater CS	55SO10716	817626	Certified	Category 3	Winton Way and Carter Way	Merced	No	180	0	8/25/2015	Grease Deposition (FOG)	
SS	City of Woodland CS	55SO10903	817023	Certified	Category 3	11 First St.	Yolo	No	173	0	7/21/2015	Root intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	817694	Certified	Category 3		140219	Sacramento	No	153	0	7/13/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11423	817650	Certified	Category 3	940 Edan Av Stockton Ca	San Joaquin	No	151	0	8/27/2015	Debris-General	
SS	SMD No. 2 CS	55SO11362	816514	Certified	Category 3	Fuller Drive, Granite Bay, CA Map Page D15-111	Placer	No	150	0	7/1/2015	Debris-Rags	
SS	White Slough Water Poll Con Pu CS	55SO11084	818052	Certified	Category 3	N2160	San Joaquin	No	115	0	8/14/2015	Grease Deposition (FOG)	
5F	City Of Merced CS	55SO10724	818246	Certified	Category 3	south side of 16th street east of G street near the highway 99 overpass	Merced	No	102	0	8/10/2015	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
SS	Sacramento Area Sewer District CS	55SO10912	817722	Certified	Category 3		141166	Sacramento	No	100	0	7/10/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818475	Certified	Category 3		143211	Sacramento	No	96	0	8/24/2015	Root intrusion
SR	Redding City CS	55SO10801	817471	Certified	Category 3	Manhole L6-42, located in the Hill St. ROW north of 2225 Cliff Dr.	Shasta	No	80	0	8/13/2015	Debris-Rags	
SS	Angels Camp CS	55SO10865	817070	Certified	Category 3	1690 Martina St. Angels Camp Ca. 95222	Calaveras	No	75	0	7/31/2015	Debris-General	
SS	Tuolumne CS	55SO11068	817567	Certified	Category 3	18491 Baker Street	Tuolumne	No	70	0	8/25/2015	Other (specify below)	
SS	City of Woodland CS	55SO10903	816653	Certified	Category 3	621 West St.	Yolo	No	69	0	7/13/2015	Debris-General	
SS	El Dorado Hills CS	55SO10941	816756	Certified	Category 3	EDH-2015-07-01	El Dorado	No	60	0	7/20/2015	Root intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	818447	Certified	Category 3		142722	Sacramento	No	60	0	8/15/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817684	Certified	Category 3		140043	Sacramento	No	57	0	7/9/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818480	Certified	Category 3		143271	Sacramento	No	55	0	8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817699	Certified	Category 3		140360	Sacramento	No	54	0	7/15/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817680	Certified	Category 3		139873	Sacramento	No	53	0	7/5/2015	Debris-General
SS	City Of Bakersfield CS	55SO10717	817582	Certified	Category 3	Morning Breeze St & Onyx Night Dr	Kern	No	50	0	7/19/2015	Pump Station Failure-Mechanical	
SS	California State Prison, Sacramento CS	55SO11183	817615	Certified	Category 3	California State Prison-Sacramento	Sacramento	No	50	0	8/22/2015	Debris-General	
5F	City Of Bakersfield CS	55SO10717	817573	Certified	Category 3	2900 Spruce St.	Kern	No	50	0	8/23/2015	Grease Deposition (FOG)	
SS	City of Stockton MUD CS	55SO11433	817748	Certified	Category 3	1965 Lucerne Ave.	San Joaquin	No	47	0	8/30/2015	Root intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	817736	Certified	Category 3		141677	Sacramento	No	46	0	7/30/2015	Root intrusion
SS	Modesto CS	55SO11001	817527	Certified	Category 3	Pump Station	Stanislaus	No	45	0	8/17/2015	Pump Station Failure-Mechanical	
SS	Sacramento Area Sewer District CS	55SO10912	817717	Certified	Category 3		141049	Sacramento	No	44	0	7/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817732	Certified	Category 3		141421	Sacramento	No	44	0	7/28/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818488	Certified	Category 3		143433	Sacramento	No	44	0	8/5/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818500	Certified	Category 3		143816	Sacramento	No	44	0	8/30/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816376	Certified	Category 3	946 S. Sierra Nevada St.	San Joaquin	No	39	0	7/2/2015	Root intrusion	
5F	City Of Bakersfield CS	55SO10717	817381	Certified	Category 3	3100 Coventry Dr	Kern	No	35	0	8/9/2015	Other (specify below)	
SS	Nw Regional Waste Disp Fac CS	55SO11015	817230	Certified	Category 3	Miramonte Ave. at Quail Ct.	Lake	No	33	0	8/8/2015	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	55SO10912	818486	Certified	Category 3		143364	Sacramento	No	33	0	8/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817672	Certified	Category 3		139735	Sacramento	No	32	0	7/3/2015	Root intrusion
SS	City Of Folsom CS	55SO10893	816838	Certified	Category 3	104 Brugler Ct.	Sacramento	No	32	0	7/19/2015	Pipe Structural Problem/Failure	
SS	Sacramento Area Sewer District CS	55SO10912	817740	Certified	Category 3		141777	Sacramento	No	30	0	7/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818470	Certified	Category 3		143143	Sacramento	No	27	0	8/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818424	Certified	Category 3		142146	Sacramento	No	25	0	8/6/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818442	Certified	Category 3		142623	Sacramento	No	25	0	8/14/2015	Other (specify)
SS	Sacramento Area Sewer District CS	55SO10912	817728	Certified	Category 3		141218	Sacramento	No	24	0	7/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817674	Certified	Category 3		139742	Sacramento	No	22	0	7/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817683	Certified	Category 3		139996	Sacramento	No	22	0	7/8/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817710	Certified	Category 3		140754	Sacramento	No	22	0	7/20/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816874	Certified	Category 3	1026 N Hunter St.	San Joaquin	No	22	0	7/23/2015	Debris from Lateral	
SS	Sacramento Area Sewer District CS	55SO10912	817737	Certified	Category 3		141706	Sacramento	No	22	0	7/30/2015	Debris-General
SS	Angels Camp CS	55SO10865	816546	Certified	Category 3	289 Stockton Rd.	Calaveras	No	20	0	7/10/2015	Grease Deposition (FOG)	
5F	City Of Bakersfield CS	55SO10717	817224	Certified	Category 3	9013 Ellashosh St	Kern	No	20	0	8/5/2015	Other (specify below)	
SS	Sacramento Area Sewer District CS	55SO10912	818489	Certified	Category 3		143465	Sacramento	No	20	0	8/26/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818416	Certified	Category 3		141851	Sacramento	No	18	0	8/3/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	817695	Certified	Category 3		140222	Sacramento	No	15	0	7/13/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817701	Certified	Category 3		140443	Sacramento	No	15	0	7/14/2015	Root intrusion
SS	Yuba City CS	55SO11100	816726	Certified	Category 3	1648 Sequoia Dr	Sutter	No	15	0	7/16/2015	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	55SO10912	817711	Certified	Category 3		140856	Sacramento	No	15	0	7/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818408	Certified	Category 3		141780	Sacramento	No	15	0	8/1/2015	Root intrusion
5F	City Of Bakersfield CS	55SO10717	817380	Certified	Category 3	1st St & Donna Ave	Kern	No	15	0	8/11/2015	Other (specify below)	
SS	Sacramento Area Sewer District CS	55SO10912	818440	Certified	Category 3		142578	Sacramento	No	15	0	8/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817704	Certified	Category 3		140677	Sacramento	No	14	0	7/18/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818419	Certified	Category 3		141963	Sacramento	No	14	0	8/1/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818418	Certified	Category 3		141870	Sacramento	No	14	0	8/3/2015	Root intrusion

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - July through August 2015

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	55SO10912	817725	Certified	Category 3		141198	Sacramento	No	13	0 7/26/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816882	Certified	Category 3	1933 Bordeaux Ave.		San Joaquin	No	13	0 7/26/2015	Debris-General
SS	City Of Antioch CS	55SO10890	817170	Certified	Category 3	2205 Baker Ct. Antioch Ca		Contra Costa	No	13	0 7/29/2015	Root intrusion
SS	Dry Creek CS	55SO10935	817820	Certified	Category 3	271 Spvglass		Placer	No	13	0 8/3/2015	Non-Dispersables
SS	South Placer Mud CS	55SO11054	817292	Certified	Category 3	Manhole L05-054 Fleet Cr, Rocklin		Placer	No	13	0 8/3/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818421	Certified	Category 3		142025	Sacramento	No	12	0 8/5/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818449	Certified	Category 3		142724	Sacramento	No	12	0 8/16/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	817697	Certified	Category 3		140305	Sacramento	No	11	0 7/14/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818493	Certified	Category 3		143650	Sacramento	No	11	0 8/27/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818500	Certified	Category 3		143732	Sacramento	No	11	0 8/30/2015	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	817681	Certified	Category 3		139874	Sacramento	No	10	0 7/7/2015	Root intrusion
SS	Dry Creek CS	55SO10935	817422	Certified	Category 3	505 Main St		Placer	No	10	0 7/15/2015	Root intrusion
SS	Dry Creek CS	55SO10935	817564	Certified	Category 3	320 Grove		Placer	No	10	0 7/20/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816733	Certified	Category 3	1143 E Hazelton St		San Joaquin	No	10	0 7/20/2015	Debris from Lateral
SF	Tuolumne Utilities District CS	55SO10771	816813	Certified	Category 3	MH at 220 Vickie Rd		Tuolumne	No	10	0 7/24/2015	Root intrusion
SS	City of Woodland CS	55SO10903	817313	Certified	Category 3	317 Buena Tierra Dr.		Yolo	No	10	0 7/29/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818409	Certified	Category 3		141790	Sacramento	No	10	0 8/1/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818443	Certified	Category 3		142624	Sacramento	No	10	0 8/10/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818436	Certified	Category 3		142430	Sacramento	No	10	0 8/11/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818463	Certified	Category 3		143065	Sacramento	No	10	0 8/21/2015	Grease deposition (FOG)
SS	City Of Antioch CS	55SO10890	817877	Certified	Category 3	2064 Eucalyptus way Antioch Ca		Contra Costa	No	10	0 8/23/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818491	Certified	Category 3		143574	Sacramento	No	10	0 8/27/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818494	Certified	Category 3		143649	Sacramento	No	10	0 8/27/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817676	Certified	Category 3		139762	Sacramento	No	9	0 7/5/2015	Root intrusion
SS	City Of Antioch CS	55SO10890	816922	Certified	Category 3	600 H Street, Antioch, CA 94509		Contra Costa	No	9	0 7/7/2015	Root intrusion
SS	City of Sacramento Utilities CS	55SO10901	817442	Certified	Category 3	3832 HURON ST, SACRAMENTO, CA		Sacramento	No	9	0 8/17/2015	Grease Deposition (FOG)
SF	City Of Bakersfield CS	55SO10717	816782	Certified	Category 3	2619 Buck Owens Blvd		Kern	No	8	0 7/15/2015	Other (specify below)
SS	Sacramento Area Sewer District CS	55SO10912	817724	Certified	Category 3		141192	Sacramento	No	8	0 7/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818503	Certified	Category 3		143809	Sacramento	No	8	0 8/30/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817675	Certified	Category 3		139747	Sacramento	No	7	0 7/4/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817703	Certified	Category 3		140564	Sacramento	No	7	0 7/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818425	Certified	Category 3		142208	Sacramento	No	7	0 8/7/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818431	Certified	Category 3		142295	Sacramento	No	7	0 8/10/2015	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	818433	Certified	Category 3		142355	Sacramento	No	7	0 8/11/2015	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	818469	Certified	Category 3		143142	Sacramento	No	7	0 8/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818483	Certified	Category 3		143281	Sacramento	No	7	0 8/23/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818477	Certified	Category 3		143217	Sacramento	No	7	0 8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818505	Certified	Category 3		143815	Sacramento	No	7	0 8/31/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817671	Certified	Category 3		139733	Sacramento	No	6	0 7/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817678	Certified	Category 3		139841	Sacramento	No	6	0 7/6/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817698	Certified	Category 3		140308	Sacramento	No	6	0 7/14/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817707	Certified	Category 3		140687	Sacramento	No	6	0 7/18/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817716	Certified	Category 3		140996	Sacramento	No	6	0 7/22/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	817738	Certified	Category 3		141755	Sacramento	No	6	0 7/21/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818410	Certified	Category 3		141794	Sacramento	No	6	0 8/2/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818458	Certified	Category 3		142807	Sacramento	No	6	0 8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817668	Certified	Category 3		139644	Sacramento	No	5	0 7/1/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817688	Certified	Category 3		140128	Sacramento	No	5	0 7/11/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817690	Certified	Category 3		140135	Sacramento	No	5	0 7/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817693	Certified	Category 3		140201	Sacramento	No	5	0 7/12/2015	Root intrusion
SS	City Of Lakeport CS	55SO10896	816645	Certified	Category 3	1151 11th Street, Lakeport Ca. 95453		Lake	No	5	0 7/16/2015	Debris-General
SS	City Of Folsom CS	55SO10893	817323	Certified	Category 3	405 Scott St.		Sacramento	No	5	0 7/25/2015	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	817739	Certified	Category 3		141764	Sacramento	No	5	0 7/31/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818412	Certified	Category 3		141796	Sacramento	No	5	0 8/2/2015	Vandalism
SS	Sacramento Area Sewer District CS	55SO10912	818417	Certified	Category 3		141858	Sacramento	No	5	0 8/3/2015	Grease deposition (FOG)
SS	City of Stockton MUD CS	55SO11433	817142	Certified	Category 3	9026 n el dorado st		San Joaquin	No	5	0 8/3/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818423	Certified	Category 3		142134	Sacramento	No	5	0 8/6/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818426	Certified	Category 3		142211	Sacramento	No	5	0 8/8/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818430	Certified	Category 3		142272	Sacramento	No	5	0 8/8/2015	Root intrusion
SF	City Of Bakersfield CS	55SO10717	817468	Certified	Category 3	3025 Q St		Kern	No	5	0 8/18/2015	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	818462	Certified	Category 3		143022	Sacramento	No	5	0 8/19/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818471	Certified	Category 3		143144	Sacramento	No	5	0 8/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818473	Certified	Category 3		143156	Sacramento	No	5	0 8/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818481	Certified	Category 3		143279	Sacramento	No	5	0 8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818485	Certified	Category 3		143338	Sacramento	No	5	0 8/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818492	Certified	Category 3		143591	Sacramento	No	5	0 8/27/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818498	Certified	Category 3		143720	Sacramento	No	5	0 8/29/2015	Grease deposition (FOG)
SS	City of Stockton MUD CS	55SO11433	817751	Certified	Category 3	8521 Woodhaven Way		San Joaquin	No	5	0 8/30/2015	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	818507	Certified	Category 3		143990	Sacramento	No	5	0 8/31/2015	Root intrusion
SS	City of Woodland CS	55SO10903	816637	Certified	Category 3	22 Casa Linda		Yolo	No	4	0 7/7/2015	Pipe Structural Problem/Failure
SS	City of Stockton MUD CS	55SO11433	816584	Certified	Category 3	868 Likala Dr.		San Joaquin	No	4	0 7/13/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	817709	Certified	Category 3		140719	Sacramento	No	4	0 7/20/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	817711	Certified	Category 3		140814	Sacramento	No	4	0 7/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817712	Certified	Category 3		140817	Sacramento	No	4	0 7/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817714	Certified	Category 3		140865	Sacramento	No	4	0 7/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817715	Certified	Category 3		140911	Sacramento	No	4	0 7/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818411	Certified	Category 3		141795	Sacramento	No	4	0 8/2/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818448	Certified	Category 3		142723	Sacramento	No	4	0 8/15/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818452	Certified	Category 3		142742	Sacramento	No	4	0 8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818457	Certified	Category 3		142800	Sacramento	No	4	0 8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818459	Certified	Category 3		142930	Sacramento	No	4	0 8/19/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818472	Certified	Category 3		143155	Sacramento	No	4	0 8/23/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818482	Certified	Category 3		143280	Sacramento	No	4	0 8/24/2015	Debris-General
SS	City of Sacramento Combined CS	55SO10901-C	817596	Certified	Category 3	932 33rd STREET, SACRAMENTO, CA		Sacramento	No	4	0 8/24/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	818487	Certified	Category 3		143417	Sacramento	No	4	0 8/26/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818493	Certified	Category 3		143601	Sacramento	No	4	0 8/27/2015	Root intrusion

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - July through August 2015

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	55SO10912	818497	Certified	Category 3		143715 Sacramento	No	4	0	8/28/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818502	Certified	Category 3		143736 Sacramento	No	4	0	8/30/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	817670	Certified	Category 3		139732 Sacramento	No	3	0	7/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817677	Certified	Category 3		139764 Sacramento	No	3	0	7/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817682	Certified	Category 3		139945 Sacramento	No	3	0	7/8/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817686	Certified	Category 3		140119 Sacramento	No	3	0	7/11/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817689	Certified	Category 3		140121 Sacramento	No	3	0	7/11/2015	Other (specify)
SS	Sacramento Area Sewer District CS	55SO10912	817689	Certified	Category 3		140132 Sacramento	No	3	0	7/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817691	Certified	Category 3		140138 Sacramento	No	3	0	7/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817692	Certified	Category 3		140171 Sacramento	No	3	0	7/13/2015	Root intrusion
SS	City Of Folsom CS	55SO10893	816837	Certified	Category 3	112 Hopper Ln.	Sacramento	No	3	0	7/14/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	817696	Certified	Category 3		140248 Sacramento	No	3	0	7/14/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816711	Certified	Category 3	2439 Angel Dr	San Joaquin	No	3	0	7/19/2015	Grease Deposition (FOG)
SS	City of Stockton MUD CS	55SO11433	816760	Certified	Category 3	131 Orleans Ct	San Joaquin	No	3	0	7/21/2015	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	817718	Certified	Category 3		141089 Sacramento	No	3	0	7/23/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817720	Certified	Category 3		141097 Sacramento	No	3	0	7/23/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	817721	Certified	Category 3		141130 Sacramento	No	3	0	7/24/2015	Debris from Lateral
SS	Sacramento Area Sewer District CS	55SO10912	817729	Certified	Category 3		141281 Sacramento	No	3	0	7/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817730	Certified	Category 3		141327 Sacramento	No	3	0	7/27/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817731	Certified	Category 3		141375 Sacramento	No	3	0	7/28/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818413	Certified	Category 3		141801 Sacramento	No	3	0	8/2/2015	Root intrusion
SS	City Of Folsom CS	55SO10893	817330	Certified	Category 3	105 Swift River Dr.	Sacramento	No	3	0	8/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818429	Certified	Category 3		142233 Sacramento	No	3	0	8/9/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818432	Certified	Category 2		142328 Sacramento	No	3	0	8/10/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818437	Certified	Category 3		142435 Sacramento	No	3	0	8/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818438	Certified	Category 3		142497 Sacramento	No	3	0	8/12/2015	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	818441	Certified	Category 3		142617 Sacramento	No	3	0	8/13/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818444	Certified	Category 3		142683 Sacramento	No	3	0	8/14/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818445	Certified	Category 3		142717 Sacramento	No	3	0	8/15/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818446	Certified	Category 3		142719 Sacramento	No	3	0	8/15/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818450	Certified	Category 3		142728 Sacramento	No	3	0	8/16/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818453	Certified	Category 3		142759 Sacramento	No	3	0	8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818454	Certified	Category 3		142775 Sacramento	No	3	0	8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818455	Certified	Category 3		142777 Sacramento	No	3	0	8/17/2015	Root intrusion
SS	City Of Folsom CS	55SO10893	817600	Certified	Category 3	100 Rocky Cove Ct	Sacramento	No	3	0	8/19/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818460	Certified	Category 3		142962 Sacramento	No	3	0	8/19/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818464	Certified	Category 3		143083 Sacramento	No	3	0	8/21/2015	Other (specify)
SS	Sacramento Area Sewer District CS	55SO10912	818465	Certified	Category 3		143091 Sacramento	No	3	0	8/21/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818467	Certified	Category 3		143107 Sacramento	No	3	0	8/21/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818474	Certified	Category 3		143209 Sacramento	No	3	0	8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818478	Certified	Category 3		143240 Sacramento	No	3	0	8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818484	Certified	Category 3		143296 Sacramento	No	3	0	8/25/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818490	Certified	Category 3		143512 Sacramento	No	3	0	8/26/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818499	Certified	Category 3		143727 Sacramento	No	3	0	8/29/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818501	Certified	Category 3		143734 Sacramento	No	3	0	8/30/2015	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	818504	Certified	Category 3		143814 Sacramento	No	3	0	8/31/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817667	Certified	Category 3		139642 Sacramento	No	2	0	7/1/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817669	Certified	Category 3		139728 Sacramento	No	2	0	7/2/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817673	Certified	Category 3		139736 Sacramento	No	2	0	7/3/2015	Root intrusion
SS	Dry Creek CS	55SO10935	816746	Certified	Category 3	1601 Russel	Placer	No	2	0	7/4/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817679	Certified	Category 3		139871 Sacramento	No	2	0	7/6/2015	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	817685	Certified	Category 3		140109 Sacramento	No	2	0	7/8/2015	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	817708	Certified	Category 3		140690 Sacramento	No	2	0	7/19/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816734	Certified	Category 3	1001 Royal Oaks Dr	San Joaquin	No	2	0	7/20/2015	Debris from Lateral
SS	Sacramento Area Sewer District CS	55SO10912	817727	Certified	Category 3		141203 Sacramento	No	2	0	7/26/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817734	Certified	Category 3		141612 Sacramento	No	2	0	7/30/2015	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	817735	Certified	Category 3		141615 Sacramento	No	2	0	7/30/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818420	Certified	Category 3		141989 Sacramento	No	2	0	8/4/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818422	Certified	Category 3		142105 Sacramento	No	2	0	8/6/2015	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	818427	Certified	Category 3		142217 Sacramento	No	2	0	8/8/2015	Root intrusion
SS	City Of Lakeport CS	55SO10896	817257	Certified	Category 3	870 11th Street	Lake	No	2	0	8/10/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818434	Certified	Category 3		142365 Sacramento	No	2	0	8/11/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818439	Certified	Category 3		142502 Sacramento	No	2	0	8/12/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818451	Certified	Category 3		142734 Sacramento	No	2	0	8/16/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818456	Certified	Category 3		142791 Sacramento	No	2	0	8/17/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818461	Certified	Category 3		143008 Sacramento	No	2	0	8/20/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818466	Certified	Category 3		143105 Sacramento	No	2	0	8/21/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818468	Certified	Category 3		143131 Sacramento	No	2	0	8/22/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818476	Certified	Category 3		143214 Sacramento	No	2	0	8/24/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818496	Certified	Category 3		143714 Sacramento	No	2	0	8/28/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817700	Certified	Category 3		140371 Sacramento	No	1	0	7/15/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817702	Certified	Category 3		140535 Sacramento	No	1	0	7/16/2015	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	817706	Certified	Category 3		140684 Sacramento	No	1	0	7/18/2015	Root intrusion
SS	City of Stockton MUD CS	55SO11433	816710	Certified	Category 3	5801 Caribbean Cj	San Joaquin	No	1	0	7/19/2015	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	55SO10912	817733	Certified	Category 3		141093 Sacramento	No	1	0	7/23/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	817726	Certified	Category 3		141200 Sacramento	No	1	0	7/26/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818414	Certified	Category 3		141820 Sacramento	No	1	0	8/3/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818428	Certified	Category 3		142228 Sacramento	No	1	0	8/9/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818435	Certified	Category 3		142420 Sacramento	No	1	0	8/11/2015	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	818479	Certified	Category 3		143244 Sacramento	No	1	0	8/24/2015	Operator error

ATTACHMENT A - Sanitary Sewer Spills - Summary Report

Count of Spills for July through August 2015

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	
July 2015	0	0	6	6	0	0	0	0	2	0	105	107	113
August 2015	0	1	8	9	1	0	1	2	3	4	119	126	137
Total	0	1	14	15	1	0	1	2	5	4	224	233	250

Spill Cause	Count of Spills	%
Root intrusion	155	62.0%
Debris - General	26	10.4%
Grease Deposition	21	8.4%
Other	12	4.8%
Pipe Structural Problem/Failure	9	3.6%
Debris-Rags	6	2.4%
Operator error	5	2.0%
Debris from Lateral	4	1.6%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	4	1.6%
Debris from Construction	2	0.8%
Pump Station Failure-Mechanical	2	0.8%
Damage by Others Not Related to CS Construction/Maintenance	1	0.4%
Non-Dispersables	1	0.4%
Pipe Structural Problem/Failure - Installation	1	0.4%
Vandalism	1	0.4%
Grand Total	250	100%

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

Reach surface water and/or reach a drainage channel tributary to a surface water; or

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

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

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