

**California Regional Water Quality Control Board**

**San Diego Region**

**David Gibson, Executive Officer**



**Executive Officer’s Report**

**March 13, 2019**

---

**Table of Contents**

**Part A – San Diego Region Staff Activities.....2**

- 1. Personnel Report .....2
- 2. Sierra Club, 2019 FEAT Award (*Attachment A-2*) .....2

**Part B – Significant Regional Water Quality Issues.....3**

- 1. Sustainable Groundwater Management Act 2018 Basin Modification and Prioritization .....3
- 2. Lake San Marcos Update.....5
- 3. Commercial Agriculture Regulatory Program Update.....7
- 4. Status of Claude “Bud” Lewis Carlsbad Desalination Plant NPDES Permit Reissuance .....9
- 5. Enforcement Actions for January 2019 (*Attachment B-5*) .....11
- 6. Sanitary Sewer Overflows and Transboundary Flows from Mexico in the San Diego Region – December 2018 (*Attachment B-6*) .....11

**Part C – Statewide Issues of Importance to the San Diego Region.....13**

The March report for the Tentative Schedule of Significant NPDES Permits, WDRs, and Actions; Agenda Items Requested by Board Members; and the attachments noted above are included at the end of this report.

## Part A – San Diego Region Staff Activities

### 1. Personnel Report

*Staff Contact: Elisa Danielson*

The organizational chart of the San Diego Water Board can be viewed at:  
[https://www.waterboards.ca.gov/sandiego/about\\_us/org\\_charts/orgchart.pdf](https://www.waterboards.ca.gov/sandiego/about_us/org_charts/orgchart.pdf)

#### Recent Hires and Rotations

Jill Harris joined us on February 1, 2019 as a Senior Environmental Scientist (Specialist) in the Wetland and Riparian Protection Program. Jill's work will primarily be engaged with permitting and environmental review work for the City of San Diego water, wastewater, and storm water infrastructure projects. Jill has a Bachelor of Science degree in Marine Biology and Environmental Studies from Dartmouth College, a Master of Science degree in Marine and Environmental Affairs from the University of Washington, and a Ph.D. in Marine Biology from the UCSD Scripps Institution of Oceanography.

#### Recruitment

We are recruiting for two office technician roles in the Mission Support Services Unit. We continue in our recruitment process for two Environmental Scientist positions – one in the Site Restoration and Agricultural Program, the other in the Monitoring Assessment and Research Unit.

We also continue our recruiting for four student interns who will be serving in the Storm Water Management, Source Control Regulation, Monitoring Assessment and Research, and Restoration and Protection Planning Units.

#### Separations

Rachel O'Donovan has been with the Board for over 12 years as an Office Technician in the Mission Support Services Unit. She has taken a promotional opportunity with the Department of Social Services. Lucas Lima has been with the Board for over 4 ½ years as an Office Technician as well in the Mission Support Services Unit. He will be leaving State service mid-March.

### 2. Sierra Club, 2019 FEAT Award (*Attachment A-2*)

*Staff Contact: David Gibson*

The San Diego Chapter of the Sierra Club will present the San Diego Water Board with its Fantastic Environmental Action Taken (FEAT) Award (Attachments). The theme for FEAT in 2019 is *Our Environmental Heritage* and honors those community and business leaders and volunteers who have contributed their time and effort to protecting the environment. The FEAT Awards are also being presented to Feeding San Diego and San Diego EarthWorks. The San Diego Water Board is being recognized for its work protecting, restoring and responsibly managing San Diego's water resources for the benefit of present and future generations. Representatives of the San Diego Water Board will receive the 2019 FEAT Award at the San Diego Chapter Sierra Club Awards Dinner Celebration on Saturday, May 4, 2019 at the Hilton Harbor Island Hotel, San Diego, from 6:00 pm-9:30 pm.

## Part B – Significant Regional Water Quality Issues

### 1. Sustainable Groundwater Management Act 2018 Basin Modification and Prioritization

*Staff Contact: Sean McClain*

The Department of Water Resources (DWR) released its 2018 list of Final Basin Boundary Modifications and Basin Prioritizations as part of the implementation process for the Sustainable Groundwater Management Act (SGMA). DWR's recent release includes the final basin prioritization for 458 of the 517 basins in the State. The San Diego Region basin boundary and basin prioritization changes include the following:

#### Basin Boundary Changes in the San Diego Water Board Region

- San Diego River Valley – Revised boundary to be consistent with alluvial deposits, overall size reduced by approximately 800 acres.
- San Jacinto – Approved a reduction of the outer boundary to remove low yield non-alluvial areas (included a small area in the San Diego Water Board Region). Denied the removal of Lake Perris.

More information regarding the Basin Boundary Modifications is available on the following DWR website <https://gis.water.ca.gov/app/bp2018-dashboard/p1/>.

#### Basin Prioritization Changes in the San Diego Water Board Region

- Temecula Valley (adjudicated)<sup>1</sup> – changed from high to very low.
- Cahuilla Valley (adjudicated) – changed from medium to very low.
- Santa Margarita Valley (adjudicated) – changed from medium to very low.

Basins ranked as a high- or medium-priority are subject to the requirements of SGMA and must form a Groundwater Sustainability Agency and prepare a Groundwater Sustainability Plan. Basins that are adjudicated or ranked with a low- or very low-priority are not subject to the requirements in SGMA.

DWR ranks basins as very low-, low-, medium-, or high-priority based on the following basin components:

1. The population overlying the basin or subbasin.
2. The rate of current and projected growth of the population overlying the basin or subbasin.
3. The number of public supply wells that draw from the basin or subbasin.
4. The total number of wells that draw from the basin or subbasin.
5. The irrigated acreage overlying the basin or subbasin.
6. The degree to which persons overlying the basin or subbasin rely on groundwater as their primary source of water.

---

<sup>1</sup> Water Code §10720.8 identifies adjudicated areas in SGMA, which have an existing defined entity administering the adjudication. Under SGMA, adjudicated portions of basins are exempt from developing a Groundwater Sustainability Plan and forming a Groundwater Sustainability Agency.

7. Any documented impacts on the groundwater within the basin or subbasin, including overdraft, subsidence, saline intrusion, and other water quality degradation.
8. Any other information determined to be relevant by the department, including adverse impacts on local habitat and local stream flows.

Priority points are calculated for each of the 8 components listed above, the total component points for each basin are used to determine the basin priority using the following scale.

Priority	Total Priority Point Ranges
Very Low	<7
Low	7 to ≤14
Medium	14 to ≤ 21
High	21 to ≤42

Since all three of the basins with prioritization changes in our Region are adjudicated, they are exempt from forming a Groundwater Sustainability Agency and preparing a Groundwater Sustainability Plan. More information regarding the Basin Prioritization process is available on the following DWR website <https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization>.

### **Pending Basin Boundary Modifications**

The City of San Diego Public Utilities Department proposed a modification to the boundaries of the Sweetwater Valley, Otay Valley, and Tijuana Valley groundwater basins to facilitate coordinated management of the San Diego Formation aquifer, which underlies all three areas. The proposed modification will consolidate the three basins into one and expand the boundaries to include the entire San Diego Formation aquifer. The proposed modification is consistent with the intent of SGMA which requires basins boundaries to be based on scientifically recognized hydrogeologic boundaries to facilitate more coordinated management of the State's water resources.

The City of Oceanside, in conjunction with the County of San Diego, proposed two boundary modifications to the San Luis Rey Valley Groundwater Basin. The request would divide the basin into two basins whose boundaries are based on the water rights classifications. The upper portion of the basin would be named the "Pauma Valley Groundwater Basin" and designated as "percolating groundwater" that would not be subject to water rights permitting. The lower portion of the groundwater basin would be named the "San Luis Rey Valley Groundwater Basin" and would be designated as a subterranean stream and subject to water rights permitting. A groundwater basin classified as a subterranean stream could receive a lower priority for the purposes of the SGMA because groundwater use in these types of basin is already subject to State Water Board water rights program regulation and monitoring. While subterranean stream groundwater basins may receive a lower SGMA priority, both types of groundwater basins are subject to SGMA.

### **Next Steps**

The Draft SGMA Basin Prioritization for modified basins is anticipated to be released for public comment and finalized in the Spring 2019.

## 2. Lake San Marcos Update

*Staff Contact: Sarah Mearon*

The San Diego Water Board approved a revised corrective action work schedule for the Lake San Marcos and San Marcos Creek watershed Site Cleanup Program (SCP) case. The lake owner, Citizens Development Corporation (CDC), and four public agencies (San Diego County, Cities of San Marcos and Escondido, and Vallecitos Water District) are currently performing investigation and cleanup work cooperatively and voluntarily with SCP oversight.

Lake San Marcos is a seasonally stratified lake impaired by excess phosphorus and nitrogen. The excess nutrients in the lake result in excess algal growth and low dissolved oxygen. Both the lake and San Marcos Creek, which flows into the lake at its north end, are included on the U.S. Environmental Protection Agency Clean Water Act 303(d) list of impaired waters. CDC and the four public agencies are currently working cooperatively to mitigate the causes of nutrient impairment in the lake and watershed and pilot-test cleanup alternatives. Results of the pilot tests will be used to design full-scale remedies for implementation. A summary of pilot tests and other field program activities is provided in the table below.

<b>Field Program Summary</b>			
<b>Project Area</b>	<b>Action</b>	<b>Timeframe(s)</b>	<b>Status</b>
Lake	Phosphorus inactivation treatment (alum pilot test)	1) May 2017 2) August 2017 3) June 2018	Completed
Downstream of dam	Water quality sampling and analysis (dry weather during dam valve inspection)	July 2018	Completed
Watershed	Basin infiltration (pilot test)	November 2018-Present	Ongoing
Downstream of dam	Water quality sampling and analysis (wet weather)	1) November 2018 2) January 2019 3) March 2019 (weather-dependent)	Ongoing
Watershed	Phosphorus inactivation treatment (aluminum chlorohydrate pilot test)	1) January-February 2019 2) March 2019 (weather-dependent)	Ongoing
Lake	Phosphorus inactivation treatment (Phoslock pilot test)	April or May 2019 (anticipated)	Planned
Lake	Aeration (pilot test)	January 2020	Planned

### ***Dry-Weather Dam Valve Sampling Event***

The parties conducted a dry-weather dam valve sampling event on July 30, 2018, during the annual Office of Safety of Dams inspection, in accordance with the approved Lake San Marcos



Downstream Monitoring Plan. The valve was opened for 27 minutes and three samples were collected and analyzed (Figure 1). Wet-weather sampling events involving collection of downstream water samples were performed in November 2018 and January 2019. An interim report of the July 2018 results has been submitted to the Board and indicates that nutrient levels in valve water are consistent with those in the bottom of the lake on the upstream side of the dam (i.e., high in nutrients). A full report of results will be submitted to the Board in June 2019.



Figure 1. Dam discharge sampling on July 30, 2018.

### ***In-Stream Watershed Pilot Test***

The parties conducted a phosphorus inactivation pilot test in Upper San Marcos Creek during the January 31-February 1, 2019, rain event, which delivered about 0.9 inches of rain. Aluminum chlorohydrate (ACH), a water treatment chemical that takes phosphorus out of solution, was added to the creek near the Discovery Street bridge. ACH has a similar affinity for phosphorus as alum, another water treatment chemical that has previously been pilot-tested as a lake treatment method (see Field Program Summary table). The pilot test was performed to assess the potential of ACH to reduce the amount of bioavailable phosphorus in the creek before it is delivered to the lake and minimize the creek's contribution to algal growth in the lake.

Three rounds of samples were collected during the ACH application. In each round, a sample was taken immediately upstream of treatment, at a midpoint location about 0.1 miles downstream of treatment, and at a third location about 0.2 miles downstream of treatment. Round 1 treatment and sampling occurred during the early portion of the storm event while creek flow was increasing, and Rounds 2 and 3 occurred during the latter portion of the event, while flow was receding.

Laboratory analysis for total aluminum concentration in downstream samples indicated that ACH dosing during Rounds 2 and 3 achieved approximately the target dose. At the lower dose applied during Round 1, the estimated removal of orthophosphate (the dissolved form of

phosphorus that supports the growth of algae) measured at the downstream station was about 75 percent of the upstream concentration, as shown on Figure 2. This is about double the targeted removal rate of 40 percent projected in the 2016 Feasibility Study, indicating that this remedial action is effective at reducing the amount of bioavailable phosphorus entering the lake during storm events.

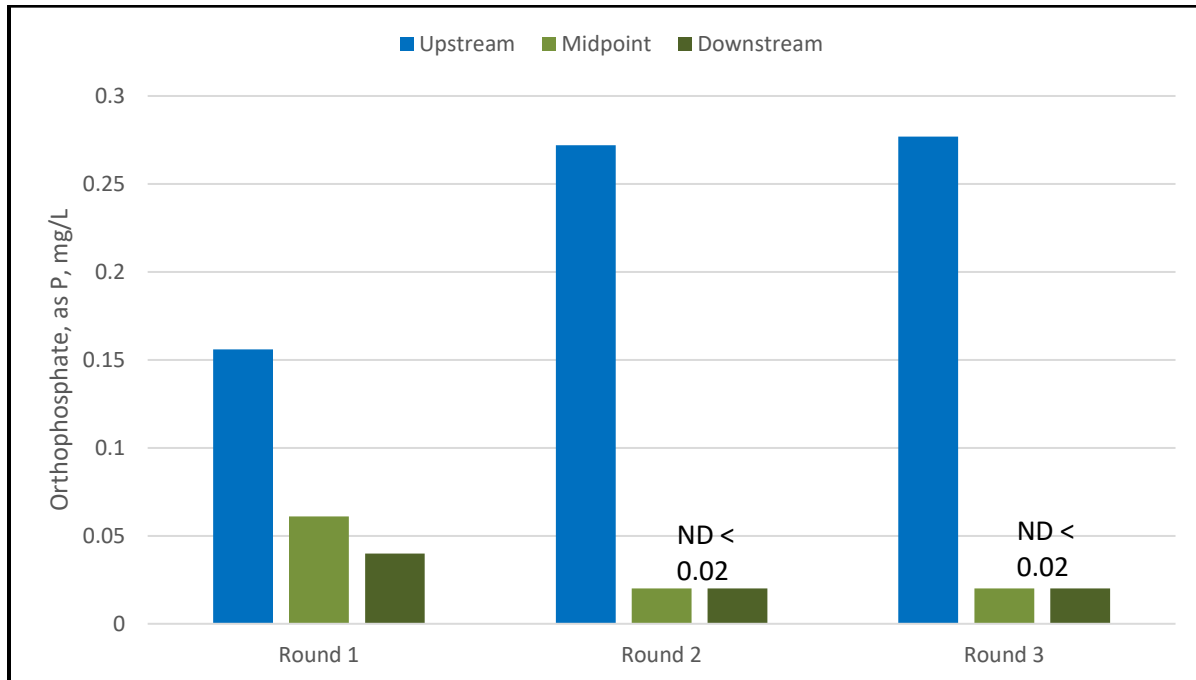


Figure 2. Pre-treatment (upstream) and post-treatment (midpoint and downstream) concentrations of orthophosphate in ACH pilot test.

The field program will continue as outlined in the Field Program Summary table. Additional tasks (e.g., California Environmental Quality Act compliance and Corrective Action Plan preparation) have also been initiated and will be completed in accordance with the approved corrective action schedule. Project documents and correspondence can be viewed online on Geotracker at [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T10000003261](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000003261).

### 3. Commercial Agriculture Regulatory Program Update

*Staff Contact: Christina Arias*

The San Diego Water Board Commercial Agriculture Regulatory Program (Program) has been busy increasing enrollment, performing inspections, assisting Third-Party Groups, conducting enforcement, and collaborating with State Board and other Regions' agricultural programs.

The Program's highest priority continues to be an effort to increase enrollment in [Order No. R9-2016-0004](#)<sup>2</sup> (Order). The enrollment effort includes taking enforcement actions on growers who have failed to enroll in the Order and growers failing to pay annual fees. In December 2018 and January 2019, staff issued four Notices of Violations to growers for failing to pay annual fees.

<sup>2</sup> There are two Orders for agricultural operations. However, with only one exception, growers choose to enroll in *Order No. R9-2016-0004 General Waste Discharge Requirements for Discharges from Commercial Agricultural Operations for Dischargers that are Members of a Third-Party Group in the San Diego Region*.



Those actions resulted in either the grower complying with the Order and paying the fees or the grower submitting a Notice of Termination because they are no longer operating.

Program Staff have conducted four inspections in the Fallbrook and Escondido areas to evaluate compliance with the Order. These inspections focused on the agricultural operation's management practices for preventing discharges of waste. Staff are coordinating with the County of San Diego regarding one agricultural operation to ensure corrective actions are taken to address immediate and long-term threats to water quality at the operation.

Program staff successfully facilitated an agreement between the four Third-Party Groups to share monitoring of 13 bioassessment stations. Following a meeting organized by Program staff in November 2018, each of the four Third-Party Groups submitted addenda to their monitoring plans that collectively meet the requirements in the Order to conduct bioassessment monitoring at all 13 stations. As a result, the San Diego Water Board Executive Officer approved all four Groups' monitoring plans.

Program staff hosted the statewide Irrigated Lands Regulatory Program (ILRP) Roundtable on January 15-16, 2019. The ILRP Roundtable is held twice a year and is attended by agricultural program staff from the State Board and Regional Boards. The first day of the Roundtable in San Diego included discussions about program challenges, opportunities, and lessons learned. The second day consisted of field visits to two farms located in the Tijuana River watershed including the Resource Conservation District of Greater San Diego's Community Garden to hear about their carbon farming demonstration plot<sup>3</sup> and the Wild Willow Farm and Education Center.<sup>4</sup>



Carbon Farming Demonstration Plot

---

<sup>3</sup> <http://rcdsandiego.org/programs/carbon-farming/>

<sup>4</sup> <http://www.sandiegoroots.org/farm/index.php>





Wild Willow Farm and Educational Center

Finally, Program staff are participating in a statewide effort to draft new or update existing Administrative Procedures Manual (APM) chapters for each program. Once complete, the ILRP APM will describe procedures for administrating agricultural programs consistently across the state.

#### **4. Status of Claude “Bud” Lewis Carlsbad Desalination Plant NPDES Permit Reissuance**

*Staff Contact: Ben Neill*

This report provides a monthly status update on the San Diego Water Board’s review of [Poseidon Resources \(Channelside\) LLC’s](#) (Poseidon) Report of Waste Discharge (ROWD) application for reissuance of the National Pollutant Discharge Elimination System (NPDES) permit for the [Claude “Bud” Lewis Carlsbad Desalination Plant](#) (CDP) and the development of the draft NPDES permit including a California Water Code section 13142.5(b) determination. The reissuance of the NPDES permit for the CDP is a high priority for the San Diego Water Board and the State Water Board (collectively referred to as Water Boards). Following is an update on key activities since the [previous Executive Officer Report](#) update<sup>5</sup>:

- On December 21, 2018, the San Diego Water Board released, for formal public review and comment, Tentative Order No. R9-2019-0003 (Tentative Order), including the draft California Water Code section 13142.5(b) determination for the CDP. Formal written comments on the Tentative Order were due by 5:00 p.m. on January 28, 2019. The

---

<sup>5</sup> Additional information regarding the CDP can be found in the monthly [Executive Officer Reports](#) from June 2015 through February 2019 for [February 2019](#), [December 2018](#), [October 2018](#), [September 2018](#), [August 2018](#), [June 2018](#), [May 2018](#), [April 2018](#), [February 2018](#), [December 2017](#), [October 2017](#), [September 2017](#), [August 2017](#), [June 2017](#), [April 2017](#), [February 2017](#), [December 2016](#), [November 2016](#), [October 2016](#), [September 2016](#), [August 2016](#), [May 2016](#), [December 2015](#), [September 2015](#), and [June 2015](#).

Tentative Order is available on the San Diego Water Board's website at:

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

- Timely comments on the Tentative Order were submitted by 1) Poseidon Resources (Channelside) LP, 2) San Diego County Water Authority, 3) California Coastal Commission, 4) Coastal Environmental Rights Foundation, 5) Surfrider Foundation and Orange County Coastkeeper and 6) NRG, Cabrillo Power I LLC. The comment letters can be accessed on the San Diego Water Board website at:  
[https://www.waterboards.ca.gov/sandiego/water\\_issues/programs/regulatory/carlsbad\\_desalination.html](https://www.waterboards.ca.gov/sandiego/water_issues/programs/regulatory/carlsbad_desalination.html).
- The San Diego Water Board is currently evaluating the written comments on the Tentative Order that were timely submitted. The San Diego Water Board's consideration of the written comment submittals will result in revisions to the current version of the Tentative Order. Thus the finalized version of the Tentative Order that is ultimately considered for adoption by the San Diego Water Board will differ from the Tentative Order released for public review on December 21, 2018. The finalized version of the Tentative Order along with the San Diego Water Board's Response to Comments document will be posted on the Board's website in advance of the public hearing to consider adoption of the Tentative Order.
- The public hearing for the San Diego Water Board to consider written and oral public comments and the adoption of the Tentative Order with a Water Code section 13142.5(b) determination was scheduled to be held during the upcoming March 13, 2019 Board Meeting. On March 1, 2019 a public notice was released postponing the public hearing pending the Board's completion of the Response to Comments document. The San Diego Water Board will reschedule the matter for a public hearing date at the earliest opportunity and will provide notification of the new date as soon as possible once a public hearing has been scheduled.

## Background

Poseidon owns and operates the CDP subject to waste discharge requirements established by the San Diego Water Board in Order No. R9-2006-0065, NPDES Permit No. CA0109223. Order No. R9-2006-0065 expired in 2011, but remains in effect under an administrative extension until the reissued NPDES permit supersedes it. The CDP is located adjacent to the Encina Power Station (owned by [NRG Energy](#)) on the southern shore of the [Agua Hedionda Lagoon](#) in Carlsbad, California. The CDP is the nation's largest seawater desalination plant. On November 9, 2015, the CDP began potable water production providing up to 50 million gallons of drinking water per day to customers within the SDCWA service area. The CDP currently intakes source water from Agua Hedionda Lagoon through the existing Encina Power Station discharge structure.

The San Diego Water Board has developed a dedicated website to inform the public about the NPDES permit reissuance for the CDP:

[http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/regulatory/carlsbad\\_desalination.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/regulatory/carlsbad_desalination.shtml).

In addition, an email list is available for interested persons to subscribe to at this website:

[http://www.waterboards.ca.gov/resources/email\\_subscriptions/reg9\\_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/reg9_subscribe.shtml).

## 5. Enforcement Actions for January 2019 (*Attachment B-5*)

*Staff Contact: Chiara Clemente*

During the month of January 2019, the San Diego Water Board issued 4 Notices of Violation and 12 Staff Enforcement Letters. A summary of each enforcement action taken is provided in the attached table (Attachment B-5). The State Water Board's [Enforcement Policy](#) contains a brief description of the kinds of enforcement actions the Water Boards can take.

Additional information on violations, enforcement actions, and mandatory minimum penalties is available to the public from the following on-line sources:

State Water Board Office of Enforcement webpage:

[http://www.waterboards.ca.gov/water\\_issues/programs/enforcement/](http://www.waterboards.ca.gov/water_issues/programs/enforcement/)

California Integrated Water Quality System (CIWQS):

[http://www.waterboards.ca.gov/water\\_issues/programs/ciwqs/publicreports.shtml](http://www.waterboards.ca.gov/water_issues/programs/ciwqs/publicreports.shtml)

State Water Board GeoTracker database: <https://geotracker.waterboards.ca.gov/>

## 6. Sanitary Sewer Overflows and Transboundary Flows from Mexico in the San Diego Region – December 2018 (*Attachment B-6*)

*Staff Contact: Keith Yaeger*

Sanitary sewer overflow (SSO) discharges from sewage collection systems and private laterals, and transboundary flows from Mexico into the San Diego Region can contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oil, and grease. SSO discharges and transboundary flows can pollute surface and ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters. Typical impacts of SSO discharges and transboundary flows include the closure of beaches and other recreational areas, the inundation of property, and the pollution of rivers and streams.

### Sanitary Sewer Overflows (SSOs)

State agencies, municipalities, counties, districts, and other entities (collectively referred to as public entities) that own or operate sewage collection systems report SSO spills through an on-line database system, the *California Integrated Water Quality System* (CIWQS). These spill reports are required under the [Statewide General SSO Order](#)<sup>6</sup>, the [San Diego Regional General SSO Order](#)<sup>7</sup>, and/or individual National Pollutant Discharge Elimination System (NPDES) permit requirements. Some federal entities<sup>8</sup> report this information voluntarily. Most SSO reports are available to the public on a real-time basis at

---

<sup>6</sup> State Water Board Order No. 2006-0003-DWQ, *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems* as amended by Order No. WQ 2013-0058-EXEC, *Amending Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*.

<sup>7</sup> San Diego Water Board Order No. R9-2007-0005, *Waste Discharge Requirements for Sewage Collection Agencies in the San Diego Region*.

<sup>8</sup> Marine Corp Base Camp Pendleton reports sewage spills to CIWQS as required by its individual NPDES permit, Order No. R9-2013-0112, NPDES Permit No. CA0109347, *Waste Discharge Requirements for the Marine Corps Base, Camp Pendleton, Southern Regional Tertiary Treatment Plant and Advanced Water Treatment Plant, Discharge to the Pacific Ocean via the Oceanside Ocean Outfall*. The U.S. Marine Corps Recruit Depot and the U.S. Navy voluntarily report sewage spills through CIWQS.

the following State Water Board webpage:

[https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso\\_main](https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso_main).

Details on the reported SSOs are provided in the following attached tables (Attachment B-6):

- Table 1: December 2018 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region
- Table 2: December 2018 - Summary of Private Lateral Sewage Discharges in the San Diego Region

A summary view of information on SSO trends is provided in the following attached figures (Attachment B-6):

- Figure 1: Number of SSOs per Month
- Figure 2: Volume of SSOs per Month

These figures show the number and total volume of sewage spills per month from December 2017 to December 2018. During this period, 35 of the 63 collection systems in the San Diego Region regulated under the Statewide SSO Program reported one or more sewage spills. Twenty-eight collection systems did not report any sewage spills. A total of 331 sewage spills were reported and 147,153 gallons of sewage reached surface waters.

Additional information about the San Diego Water Board sewage overflow regulatory program is available at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/sso/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/sso/index.shtml).

### **Transboundary Flows**

Water and wastewater in the Tijuana River and from a number of canyons located along the international border ultimately drain from Tijuana, Mexico into the U.S. The water and wastewater flows are collectively referred to as transboundary flows. The U.S. Section of the International Boundary and Water Commission (USIBWC) has built canyon collectors to capture dry weather transboundary flows from some of the canyons for treatment at the South Bay ational Wastewater Treatment Plant (SBIWTP) in San Diego County at the U.S./Mexico border. Dry weather transboundary flows that are not captured by the canyon collectors for treatment at the SBIWTP, such as flows within the main channel of the Tijuana River, are reported by the USIBWC pursuant to [Order No. R9-2014-0009](#), the NPDES permit for the SBIWTP discharge. These uncaptured flows can enter waters of the U.S. and/or State, potentially polluting the Tijuana River Valley and Estuary, and south San Diego beach coastal waters.

Details on the reported transboundary flows are provided in the attached table (Attachment B-6):

- Table 3: December 2018 - Summary of Transboundary Flows from Mexico into the San Diego Region

The transboundary flows reported in Table 3 were based on unofficial spill notifications rather than official spill reports. USIBWC was affected by the federal government shutdown in December 2018 and January 2019, and the shutdown may have been the cause for delays in their submission of official spill reports. If the official spill reports for December 2018 and January 2019 provide different information, the San Diego Water Board will include an update in the May 2018 EOR.

According to the 1944 *Water Treaty for the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande* and stipulations established in [IBWC Minute No. 283](#), the USIBWC and the Comisión Internacional de Límites y Aguas (CILA)<sup>9</sup> share responsibility for addressing border sanitation problems, including transboundary flows. Efforts on both sides of the border have led to the construction and

---

<sup>9</sup> The Mexican section of the IBWC.



ongoing operation of several pump stations and treatment plants to reduce the frequency, volume, and pollutant levels of transboundary flows. This infrastructure includes but is not limited to the following:

- The SBIWTP, located just north of the U.S./Mexico border, provides secondary treatment for a portion of the sewage from Tijuana, Mexico and dry weather runoff collected from a series of canyon collectors located in Smuggler Gulch, Goat Canyon, Canyon del Sol, Stewart's Drain, and Silva Drain. The secondary-treated wastewater is discharged to the Pacific Ocean through the South Bay Ocean Outfall, in accordance with Order No. R9-2014-0009, NPDES No. CA0108928.
- Several pump stations and wastewater treatment plants in Tijuana, Mexico.
- The River Diversion Structure and Pump Station CILA in Tijuana divert dry weather flows from the Tijuana River. The flows are diverted to a Pacific Ocean shoreline discharge point approximately 5.6 miles south of the U.S./Mexico border, or can be diverted to SBIWTP or another wastewater treatment plant in Tijuana, depending on how Tijuana's public utility department (CESPT) configures the collection system. The River Diversion Structure is not designed to collect wet weather river flows and any river flows over 1,000 liters per second (35.3 cubic feet per second).

Additional information about sewage pollution within the Tijuana River Watershed is available at [https://www.waterboards.ca.gov/sandiego/water\\_issues/programs/tijuana\\_river\\_valley\\_strategy/sewage\\_issue.html](https://www.waterboards.ca.gov/sandiego/water_issues/programs/tijuana_river_valley_strategy/sewage_issue.html).

## **Part C – Statewide Issues of Importance to the San Diego Region**

No Report

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN DIEGO REGION

Significant NPDES Permits,  
WDRs, and Actions of the  
San Diego Water Board

March 13, 2019

APPENDED TO EXECUTIVE OFFICER'S REPORT

TENTATIVE SCHEDULE  
SIGNIFICANT NPDES PERMITS, WDRS, AND ACTIONS  
OF THE SAN DIEGO WATER BOARD

Action Agenda Item	Action Type	Draft Complete	Written Comments Due	Consent Item
<b>April 10, 2019</b>				
<i>Mission Viejo</i>				
<i>Meeting Cancelled</i>				
<b>May 8, 2019</b>				
<i>San Diego Water Board</i>				
Reissuance of Waivers of Waste Discharge Requirements <i>(Komeilyan)</i>	WDR	90%	21-Feb-2019	Yes
Rescission of Orders Nos. 93-14, 94-14, and R9-2009-0105 Waste Discharge Requirements for Warner Springs Mobile Estates, Oakzanita Springs Park and Buckman Springs Safety Roadside Rest Area. Tentative Order No. R9-2019-0013 <i>(Bushnell)</i>	Rescind WDRs	85%	8-Mar-2019	Yes
Addendum to SOCWA Recycled Water WDR <i>(Bushnell)</i>	Amend WDR	10%	5-Apr-2019	Yes
Rescission Order No. R9-2019-0031 For RCP Block and Brick <i>(Komeilyan)</i>	Rescind WDRs	75%	TBD	Yes
Rescission of Order No. R9-2007-0148, Waste Discharge Requirements for California Department of Transportation, Tecate Truck Inspection Station <i>(Bushnell)</i>	Rescind WDRs	80%	29-Mar-2019	Yes
NPDES General Permit Reissuance for Discharges from Boatyards and Boat Maintenance and Repair Facilities Adjacent to Surface Waters within the San Diego Region <i>(Rodriguez)</i>	NPDES Permit Reissuance	0%	TBD	Maybe
NPDES Permit for the Discharge of Highly Purified Waste Water into the Miramar Reservoir by the City of San Diego <i>(Osibodu)</i>	New NPDES Permit	80%	TBD	No
Poseidon LLC, Carlsbad Desalination Plant <i>(Neill)</i>	NPDES Permit Reissuance	95%	28-Jan-2019	No
<b>June 12, 2019</b>				
<i>San Diego Water Board</i>				
Master Reclamation Permit for Rincon Del Diablo MWD, Harmony Grove Water Reclamation Facility, San Diego County <i>(Bushnell)</i>	Addendum to WDRs	50%	TBD	Yes
Investigative Order to Quantify Sources of Human Waste in to the San Diego River <i>(Walsh)</i>	Investigative Order Issuance	90%	20-Jun-2018	No
Rescission of Hydrostatic Test Permit				

**Agenda Items Requested by Board Members**

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
<b>June 24, 2015</b>		
Gary Strawn would like more information on how to address low dissolved oxygen conditions in the San Diego River. Informational item about how the Board deals with high levels of naturally occurring elements in groundwater when they interact with other uses.	Strawn	
	Olson	
<b>August 12, 2015</b>		
Informational item on the data that supports the Basin Plan WQOs.	Olson	
<b>December 16, 2015</b>		
Workshop on the status of restoration and land acquisition efforts along the San Diego River.	Strawn	
<b>August 10, 2016</b>		
Informational item before the Board on the SCCWRP Flow Recovery Project once their report is available.	Strawn	
<b>March 15, 2017</b>		
Information item regarding impacts of population dynamics on water quality	Olson	
Clarify operation of value for beneficial uses.	Abarbanel	
<b>June 21, 2017</b>		
San Diego Water Board to partner with the San Diego Unified Port District in planning and conducting additional and more focused outreach meetings with stakeholder groups on San Diego Bay water quality issues and environmental justice issues.	Abarbanel	
San Diego Water Board provide for San Diego Unified Port District participation in analysis of the data from the San Diego Bay Fish Consumption Study.	Abarbanel	
San Diego Unified Port District report back to San Diego Water Board on the steps the Port District is taking in their decision-making on San Diego Bay projects to ensure “long-term net gain in the quantity, quality, and permanence of wetlands acreage and values...”	Abarbanel	
San Diego Water Board support and encourage San Diego Unified Port District participation in the Southern California Coastal Water Research Project (SCCWRP) so that the Port District can be a recipient of the water quality science research conducted by SCCWRP.	Abarbanel	



**Agenda Items Requested by Board Members**

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
<b>September 13, 2017</b>		
A future board meeting will include an agenda item on how best to amend the WDRs.	Abarbanel	
<b>December 13, 2017</b>		
Gary Strawn wants an Informational Item on the low dissolved oxygen issues in the San Diego River. In particular, he wants to know more about the aerators added to the river. He would like the San Diego River Park Foundation and the San Diego River Conservancy to attend and possibly present information	Strawn	
<b>February 14, 2018</b>		
4.Board Member Warren requested an update on the San Onofre Nuclear Generating Station. In addition to an update on activities related to Board authorities, Ms. Warren would also like to know about the status of the radioactive waste piles.	Warrn	
<b>April 11, 2018</b>		
Board Member Olson directs staff to identify and review current proposed legislation related to homeless populations and related issues	Olson	
Board Member Warren commented that she would like to know more than provided in the April Executive Officer’s Report (EOR), about the storage of radioactive materials at the San Onofre Nuclear Generating Station. Board Member Abarbanel added his desire to know about how SONGS has prepared for impacts of climate change, particularly from sea level rise.	Warren, Abarbanel	
Board Member Abarbanel suggested the formation of a “Volunteer Climate Science Advisory Panel” to inform board staff of the latest climate science. Dr. Abarbanel suggested the panel consist of members from the Scripps Institution of Oceanography, the Southern California Coastal Water Research Project, San Diego State University, the University of California at Irvine and possibly from the San Francisco Estuary Institute	Abarbanel	
Board Member Abarbanel wants the San Diego Water Board to do “more” for environmental justice. He wants to know if we can work with the recently formed Office of Environmental Justice at the Attorney General. He would like a report back regarding that possibility.	Abarbanel	
Board Member Warren directed that future EORs clearly explain the opportunity to comment on the proposed enforcement priorities for the coming year.	Warren	

**Agenda Items Requested by Board Members**

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
<b>May 9, 2018</b>		
Board Member Abarbanel wants a letter sent to State Water Resources Control Board Executive Director Eileen Sobeck and to Board Member Joaquin Esquivel requesting a response to questions posed to Mr. Esquivel by the members of the San Diego Water Board at the April 2018 Board Meeting. The letter is to be signed by Chair Morales and Vice Chair Abarbanel.	Abarbanel	
Board Member Abarbanel directs Executive Officer Gibson to reach out to the Mayor of Temecula about possible attendance at the October Water Quality Coordinating Committee meeting in Sacramento.	Abarbanel	
Board Member Olson wants know statistics regarding homeless in the San Diego Region. The list will include health impacts and associated illnesses, along with the number of camps, campers and the amount of trash.	Olson	
Board Member Olson wants to know what portion of channels in Southern Orange County have already been adopted.	Olson	
Board Member Abarbanel wants to send a response to CalEPA’s comment letter asking for the establishment of a climate change panel in each Region, and asking to create a hiring classification for climate scientists, to be equal to geologists, engineers, and other scientists.	Abarbanel	
<b>June 20, 2018</b>		
Board Member Olson invites fellow Board Members to visit an Indirect Potable Reuse site in the Riverside Water Board portion of Orange County.	Olson	
The Board Chair and Vice-Chair want staff to incorporate education of the public on the need to protect water quality into Board actions whenever practicable.	Morales, Abarbanel	

**Agenda Items Requested by Board Members**

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
<p>Several Board Members had questions that were not answered at the Board Meeting. Southern California Edison will be invited back for another meeting in the next 3-12 months to address the following questions:            Update on the decommissioning process, including status of the spent nuclear fuel;            Explanation on calculation of shut down costs. Particularly, did estimates include inflation?            How many curies are stored on site relative to the amount at Chernobyl and Fukushima? How much was released from those two sites? What is the status of the area around those accidents out to 20 kilometers?            Board Member Abarbanel wants to meet with Southern California Edison to discuss development of a new strategy to compel a federal solution to the storage of spent nuclear fuel.</p>		
<b>August 8, 2018</b>		
<p>Board Member Abarbanel wants to hear back from Southern California Edison (SCE) about the San Onofre Nuclear Generating Station (SONGS) sooner than the 3-12 month window presented in the August agenda package.</p>	Abarbanel	
<p>Chair Morales wants to inform San Diego Water Board stakeholders about the upcoming hearings pertaining to desalination plant planned for Huntington Beach.</p>	Morales	
<p>Board Member Abarbanel wants to know if the Southern California Coastal Research Project (SCCWRP) could assist with the dilemma posed by measuring indicator bacteria to evaluate the protection of human health from recreational activities where the ingestion of water is likely.</p>	Abarbanel	
<b>September 12, 2018</b>		
<p>Board Member Warren wants to know the status of the posting of updated fish consumption advisories within the next 6 to 12 months.</p>	Warren	
<p>Chair Morales wants information on the costs of the City of San Diego's plume tracking efforts.</p>	Morales	
<p>Board Member Olson wants to review the Cities strategy for the removal of Arundo donax.</p>	Olson	
<p>Board Member Strawn requests an informational item on Encina's sludge drying operation.</p>	Strawn	
<p>Board Member Warren wants an update on efforts to expand the use of recycled water by the Encina Wastewater Authority.</p>	Warren	

**Agenda Items Requested by Board Members**

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
<b>October 12, 2018</b>		
Board Members Abarbanel and Olson want to know more about the data behind the City’s presentation. They want to meet with Dr. Tim Stebbins of the City, along with Drs. Falk Feddersen and Sarah Giddings from the Scripps Institution of Oceanography.	Abarbanel, Olson	
<b>December 12, 2018</b>		
Board Member Abarbanel wants the Executive Officer to follow up on concerns expressed in Public Forum about the impending work load associated with review of project proposals to install new on-site waste treatment systems that will discharge more than 1200 gallons per day over the Temecula groundwater basin.	Abarbanel	
Board Members Olson and Warren want to visit the San Onofre Nuclear Generating Station (SONGS).	Olson, Warren	
Several Board Members requested another information item regarding the San Onofre Nuclear Generating Station (SONGS), with a particular interest in the storage of spent nuclear fuel. They expressed a desire to have a public meeting that included federal elected officials, the State Lands Commission, the California Coastal Commission, Southern California Edison and the Nuclear Regulatory Commission.		
Dr. Olson wants to meet with the small water suppliers that service environmental justice and disadvantaged communities in the San Diego Region	Olson	
Dr. Olson wants an update on regional efforts to eradicate Arundo donax. She will provide a list of contacts to invite to the informational item.	Olson	
Vice Chair Abarbanel requests an update on detection methods for fecal indicator bacteria and other measures for the protection of human health.	Abarbanel	
Vice Chair Abarbanel requests an informational item on atmospheric rivers. He suggests combining the item with the SCCRWP update on pathogen monitoring and to also include scientists from the Scripps Institution of Oceanography.	Abarbanel	
<b>February 13, 2019</b>		
Board Member Strawn suggested that staff participate in the first annual "2019 SDSU Water Days" event on April 23, 2019.	Strawn	
Informational item on the status of the Mission Bay ReWild project, with a particular focus on challenges the Board can help address.	Warren	



### Agenda Items Requested by Board Members

<b>Requested Agenda Item</b>	<b>Board Member</b>	<b>Status</b>
Several Board Members asked the Executive Officer to arrange outreach meetings with elected leaders of Coronado, National City, Imperial Beach, the County of San Diego, and the Navy Commander of the United States Navy Region Southwest (Navy Mayor of San Diego).		
Executive Officer to invite representative(s) from the U.S. Customs and Border Protection to address the Board with information or concerns about water quality in the Tijuana River Valley area.	Abarbanel, Cantú	March 13, 2019



*Serving the Environment in San Diego and Imperial Counties*

March 6, 2019

Henry Abarbanel  
San Diego Regional Water Quality Control Board  
2375 Northside Drive, Suite 100  
San Diego, CA 92108-2700

Dear Mr. Abarbanel,

On behalf of Sierra Club San Diego and its more than 15,000 members, I am pleased to inform you that San Diego Regional Water Quality Control Board has been selected as one of three recipients for the Sierra Club San Diego 2019 FEAT Award (Fantastic Environmental Action Taken). We would like to invite a representative and guest to attend our 2019 Awards Dinner Celebration to accept the award on Saturday, May 4, 2019.

This year's theme is *Our Environmental Heritage* and will honor those community and business leaders and volunteers who have contributed their time and effort to protecting the environment.

This award is being presented in celebration and recognition of the Control Boards contribution to protecting, restoring and responsible management of San Diego's water resources for the benefit of present and future generations.

**The Awards Dinner Celebration will be held on Saturday, May 4, 2019 at the Hilton Harbor Island Hotel, San Diego, from 6:00 pm-9:30 pm.**

We look forward to spending an evening celebrating your efforts and success. Please let us know who will be attending. If you have any questions or would like more information, please do not hesitate in contacting us.

Sincerely,

A handwritten signature in black ink that reads "Richard Miller".

Richard Miller  
Chapter Director



# SIERRA CLUB

SAN DIEGO CHAPTER

## 2019 Awards Dinner Celebration



### *Our Environmental Heritage*

### Fantastic Environmental Action Taken (FEAT) Awards

**Feeding San Diego  
San Diego EarthWorks  
San Diego Regional Water Quality Control Board**

### Joanne Pearson Memorial Award

**David Grubb**

### Chapter Volunteer Awards

<b>Silver Cup</b> To Be Announced	<b>Life Time Achievement</b> Jean Costa	<b>Distinguished Achievement</b> Karenlee Robinson Paul Webb	<b>Chapter Service</b> Michael Taylor	<b>Volunteer of the Year</b> Dina Campbell
<b>Outings Leader</b> Alice Fichandler	<b>Political Activist</b> Brian Elliott	<b>Conservation Activist</b> Laura Hunter	<b>Conservation Activist</b> Cynthia Wooten	<b>Rookie Activist</b> Amanda Macia

**Saturday, May 4, 2019**

Flow Dinner Reception & Silent Auction 6:00 pm

Program 7:30 pm

Deserts & Coffee 9:00 pm

**Hilton Harbor Island Hotel**

**1960 Harbor Island Drive, San Diego 92101**

**Individual Tickets - \$100**

Tickets may be purchased at [www.sandiegosierraclub.org](http://www.sandiegosierraclub.org)

### Sponsorships

Sponsorship packages are available from \$1,000 to \$5,000

CONTACT Richard Miller at (858) 569-6005 or [richard.miller@sierraclub.org](mailto:richard.miller@sierraclub.org)

## Enforcement Actions for January 2019

<b>Enforcement Date</b>	<b>Enforcement Action</b>	<b>Entity/ Facility/ Location</b>	<b>Summary of Violations and Enforcement</b>	<b>Applicable Permit/Order Violated</b>
<b>NPDES: STORMWATER</b>				
<b>01/18/2019</b>	Notice of Violation No. R9-2019-0025	City of Solana Beach, Municipal Separate Storm Sewer System (MS4)	Failure to prohibit overirrigation as an illicit discharge	National Pollutant Discharge Elimination System (NPDES) Order No. R9-2013-0001 for MS4s
<b>01/22/2019</b>	Notice of Violation No. R9-2019-0034	City of San Marcos, MS4	Failure to prohibit overirrigation as an illicit discharge	NPDES Order No. R9-2013-0001
<b>01/30/2019</b>	Notice of Violation No. R9-2019-0044	LLJ Orion Pacific Vista LLC, Persea, Vista	Deficient Best Management Practices (BMP) implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/10/2019</b>	Staff Enforcement Letter	HomeFed, Otay Land II LLC, Otay Ranch Village 3, San Diego	Deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/15/2019</b>	Staff Enforcement Letter	Temecula Oil & Water LP, 76 & Circle K Fueling Facility, Temecula	Deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/15/2019</b>	Staff Enforcement Letter	California State University San Marcos, MS4	Deficient reports	NPDES General Permit No. 2013-0001-DWQ for Phase II Small MS4s
<b>01/16/2019</b>	Staff Enforcement Letter	HomeFed, Otay Land II LLC, Otay Ranch Village 3, San Diego	Deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/17/2019</b>	Staff Enforcement Letter	Aloush LLC, Anza Avenue Development, Vista	Incomplete Storm Water Pollution Prevention Plan (SWPPP) and deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/17/2019</b>	Staff Enforcement Letter	LLJ Orion Pacific Vista LLC, Persea, Vista	Deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ



### Enforcement Actions for January 2019

<b>Enforcement Date</b>	<b>Enforcement Action</b>	<b>Entity/ Facility/ Location</b>	<b>Summary of Violations and Enforcement</b>	<b>Applicable Permit/Order Violated</b>
<b>01/17/2019</b>	Staff Enforcement Letter	North County Transit District, Poinsettia Station Improvements Project, Carlsbad	Deficient BMP implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/18/2019</b>	Staff Enforcement Letter	SD Mission Road Communities LLC, San Diego Mission Road Townhomes, San Diego	Deficient BMP Implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>01/24/2019</b>	Staff Enforcement Letter	Manchester Pacific Gateway LLC, 101 Ash Street, San Diego	Deficient BMP Implementation	NPDES Construction General Permit No. 2009-0009-DWQ
<b>NPDES: WASTEWATER</b>				
<b>01/08/2019</b>	Staff Enforcement Letter	Huntington Ingalls San Diego Shipyard, Inc., Continental Maritime, San Diego Bay	Unauthorized discharge and late Reporting	NPDES Order No. R9-2015-0009
<b>01/28/2019</b>	Staff Enforcement Letter	General Dynamics National Steel & Shipbuilding Co. (NASSCO), San Diego Bay	Unauthorized discharges, late reporting, effluent violations for copper and chronic toxicity, and other order conditions	NPDES Order No. R9-2016-0116
<b>1/28/2019</b>	Staff Enforcement Letter	Poseidon Resources (Channelside) LP Co., Carlsbad Desalination Plant	Deficient monitoring, deficient reporting, and effluent violations for chronic toxicity	NPDES Order No. R9-2006-0065

**Enforcement Actions for January 2019**

<b>Enforcement Date</b>	<b>Enforcement Action</b>	<b>Entity/ Facility/ Location</b>	<b>Summary of Violations and Enforcement</b>	<b>Applicable Permit/Order Violated</b>
<b>WASTE DISCHARGE REQUIREMENTS: AGRICULTURE</b>				
<b>1/10/2019</b>	Notice of Violation No. R9-2019-0026	Sierra Madre Tree Farms, Jamul	Failure to pay annual State fee	Order No. R9-2016-0004; Waste Discharge Requirements for Commercial Agricultural Operations; CWC section 13260

Table 1: December 2018 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region

Responsible Agency	Collection System (CS)	Total Volume <sup>1</sup>	Total Recovered <sup>2</sup>	Total Reaching Surface Waters <sup>3</sup>		Total Reaching Separate Storm Drain and Recovered <sup>4</sup>		Total Discharged to Land <sup>5</sup>	Percent Recovered	Percent Reaching Surface Waters	Percent Reaching Separate Storm Drain and Recovered	Percent Discharged to Land	Surface Water Body Affected	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area
				(Gallons)	(%)	(Gallons)	(%)									
Carlsbad Municipal Water District (MWD)	Carlsbad MWD CS	135	0	0	0	0	0	135	0%	0%	0%	100%	-	3.9	282	69,825
		390	350	0	0	0	0	390	90%	0%	0%	100%	-			
City of Imperial Beach	City of Imperial Beach CS	3,250	2,000	1,250	2,000	0	0	0	62%	38%	62%	0%	Pacific Ocean	4.4	39.5	26,337
City of Laguna Beach	City of Laguna Beach CS	650	0	0	0	0	0	650	0%	0%	0%	100%	-	9.0	86.0	18,000
Leucadia Wastewater District	Leucadia Wastewater District CS	50	50	0	50	0	0	0	100%	0%	100%	0%	-	16.7	205	62,607
National City	National City CS	750	550	0	0	0	0	750	73%	0%	0%	100%	-	1.0	105.0	58,967
City of Oceanside	City of Oceanside CS, La Salina Wastewater Treatment Plant	990	890	0	0	0	0	990	90%	0%	0%	100%	-	35.6	439.7	69,957
Padre Dam MWD	Padre Dam MWD CS	167	167	0	167	0	0	0	100%	0%	100%	0%	-	4.6	161.0	69,957
City of Poway	City of Poway CS	294	294	0	0	0	0	294	100%	0%	0%	100%	-	3.5	185.0	44,006
City of San Diego	City of San Diego CS	80	80	0	0	0	0	80	100%	0%	0%	100%	-			
		35	35	0	0	0	0	35	100%	0%	0%	100%	-			
		320	240	0	0	0	0	320	75%	0%	0%	100%	-			
		425	0	0	0	0	0	425	0%	0%	0%	100%	-			
		175	0	0	0	0	0	175	0%	0%	0%	100%	-			
294	294	0	0	0	0	294	100%	0%	0%	100%	0%	-				
City of San Juan Capistrano	City of San Juan Capistrano CS	700	700	0	600	100	0	100	100%	0%	86%	14%	-	0.4	128.0	40,000
UC San Diego	UC San Diego CS	21	0	0	0	0	0	21	0%	0%	0%	100%	-	0.5	25.0	57,000
US Marine Corps Base Camp Pendleton	USMC Base Camp Pendleton CS	360	0	120	0	240	0	240	0%	33%	0%	67%	N/A	35.0	122.0	90,000
<b>Totals for Public Spills</b>		<b>8,726</b>	<b>5,650</b>	<b>1,250</b>	<b>2,817</b>	<b>4,659</b>	<b>0</b>	<b>4,659</b>	<b>65%</b>	<b>14%</b>	<b>32%</b>	<b>53%</b>	<b>-</b>	<b>233</b>	<b>4,677</b>	<b>2,724,247</b>
<b>Totals for Federal Spills</b>		<b>360</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>240</b>	<b>0</b>	<b>240</b>	<b>0%</b>	<b>33%</b>	<b>0%</b>	<b>67%</b>	<b>-</b>	<b>35.0</b>	<b>122.0</b>	<b>90,000</b>

<sup>1</sup>Total Volume = total amount that discharged from sanitary sewer system to a separate storm drain, drainage channel, surface water body, and/or land.

<sup>2</sup>Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

<sup>3</sup>Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

<sup>4</sup>Total Reaching Separate Storm Drain and Recovered = total amount reaching separate storm drain that was recovered.

<sup>5</sup>Total Discharged to Land = total amount reaching land.

**Table 2: December 2018 - Summary of Private Lateral Sewage Discharges in the San Diego Region**

Responsible Agency	Collection System (CS)	Total Volume <sup>1</sup>	Total Recovered <sup>2</sup>	Total Reaching Surface Waters <sup>3</sup>		Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land <sup>4</sup>	Percent Recovered	Percent Reaching Surface Waters (%)	Percent Reaching Separate Storm Drain & Recovered and/or Discharged to Land	Population in Service Area	Lateral Connections
				(Gallons)	(Gallons)						
El Toro Water District City of Encinitas	El Toro Water District CS City of Encinitas CS	200	50	150	50	25%	75%	25%	49,124	6,952	
		370	275	95	275	74%	26%	74%	36,200	10,183	
City of Escondido	Hale Avenue Resource Recovery Facility Disch to San Elijo Ocean Outfall CS	50	0	0	50	0%	0%	100%	171,455	41,750	
		40	40	0	40	100%	0%	100%	69,957	15,202	
Rainbow Municipal Water District	Padre Dam Municipal Water District CS Rainbow Municipal Water District CS	2,244	500	1,744	500	22%	78%	22%	9,800	2,300	
		121	121	0	121	100%	0%	100%			
City of San Diego	City of San Diego CS	96	96	0	96	100%	0%	100%			
		1,215	0	1,215	0	0%	100%	0%	2,207,591	267,237	
		540	500	40	500	93%	7%	93%			
		18	10	8	10	56%	44%	56%			
South Coast Water District	South Coast Water District CS	550	550	0	550	100%	0%	100%	42,000	14,762	
		6	6	0	6	100%	0%	100%			
<b>Totals</b>		<b>6,037</b>	<b>2,735</b>	<b>3,252</b>	<b>2,785</b>	<b>45%</b>	<b>54%</b>	<b>46%</b>	<b>2,586,127</b>	<b>358,386</b>	

<sup>1</sup>Total Volume = total amount that discharged from private lateral to a separate storm drain, drainage channel, surface water body, and/or land.

<sup>2</sup>Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

<sup>3</sup>Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

<sup>4</sup>Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land = total amount reaching separate storm drain that was recovered and/or total amount reaching land.

**Figure 1: Number of SSOs per Month**

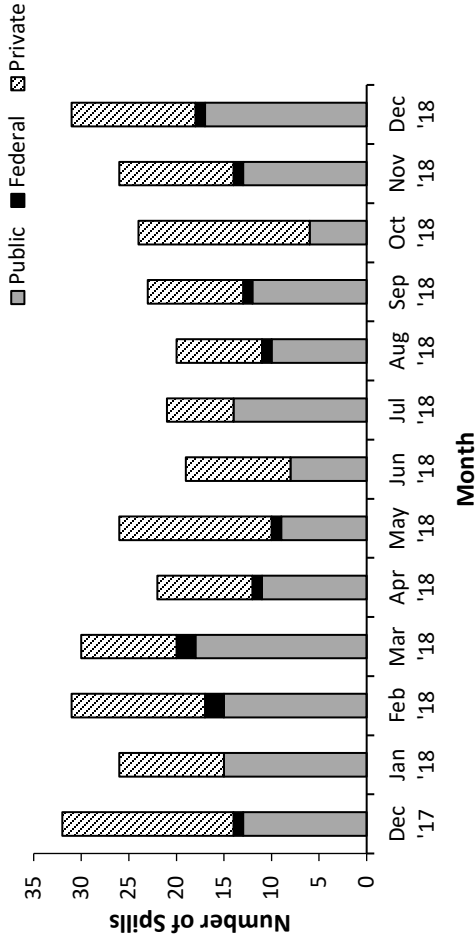


Figure 1: The number of public, federal, and private sanitary sewer overflows (SSOs) per month from December 2017 to December 2018.

**Figure 2: Volume of SSOs per Month**

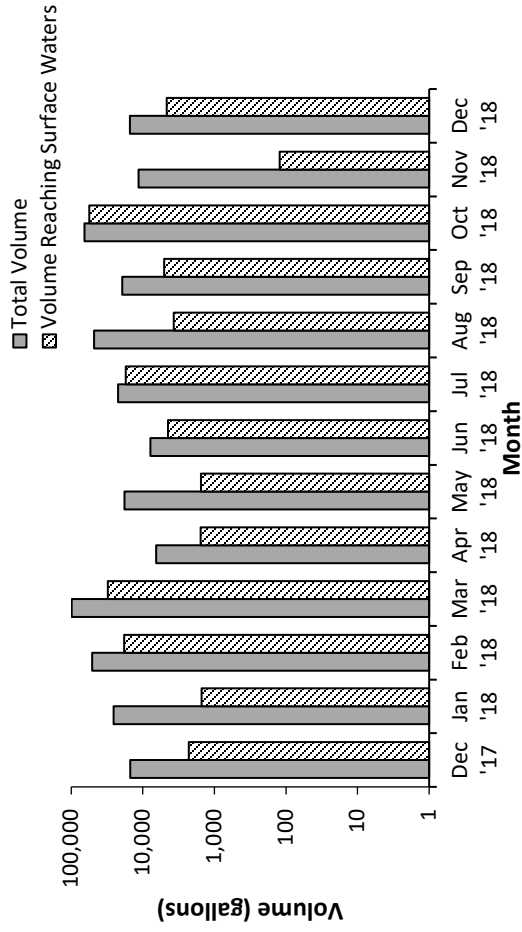


Figure 2: The volume of public, federal, and private sanitary sewer overflows (SSOs) per month from December 2017 to December 2018. Note the logarithmic scale on the vertical axis showing the wide variation in SSO volumes.

Table 3: December 2018 - Summary of Transboundary Flows from Mexico into the San Diego Region

Location	Start Date	Total Volume	Total Recovered (Gallons)		Total Reaching Surface Waters		Percent Recovered (%)		Percent Reaching Surface Waters		Additional Details
			Dry Weather <sup>1</sup>								
Tijuana River	12/10/2018	Currently Unknown	-	-	-	-	-	-	-	-	Collector Poniente in Mexico ruptured causing raw sewage to enter the Tijuana River. The repair of Collector Poniente was completed on February 8, 2019. USIBWC initially estimated the peak flow between 6-7 million gallons per day (MGD). During the repair period, Mexico was able to divert some of the flow to other collection lines. However, approximately 2.3 to 4.4 MGD of sewage entered the Tijuana River during this period. It can be assumed that a portion of this flow crossed the international border into the US. USIBWC has not confirmed the total volume of the spill. USIBWC was affected by a federal government shutdown in December 2018 and January 2019, which may have caused delays in their submission of official spill reports.
<b>Total Dry Weather</b>		N/A	-	-	-	-	-	-	-	-	-
			Wet Weather <sup>2</sup>								
Tijuana River	12/5/2018	N/A	-	-	-	-	-	-	-	-	Due to precipitation in the Tijuana River watershed, Pump Station CILA was shut down. With Pump Station CILA shut down, flows in the Tijuana River were not diverted allowing the flow to cross the U.S./Mexico border.
Tijuana River	12/25/2018	N/A	-	-	-	-	-	-	-	-	Due to precipitation in the Tijuana River watershed, Pump Station CILA was shut down. With Pump Station CILA shut down, flows in the Tijuana River were not diverted allowing the flow to cross the U.S./Mexico border.
<b>Total Wet Weather</b>		N/A	-	-	-	-	-	-	-	-	-

<sup>1</sup>Order No. R9-2014-0009 requires monthly reporting of all dry weather transboundary flows.

<sup>2</sup>Order No. R9-2014-0009 does not require monthly reporting of wet weather transboundary flows. Any information provided regarding these flows is voluntary.