

California Regional Water Quality Control Board
San Diego Region
David Gibson, Executive Officer



Executive Officer's Report
March 10, 2021

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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. Survey of Trash and Litter Control Measures Implemented by Municipal Entities and CalTrans during COVID19 Pandemic

Staff Contact: Laurie Walsh

San Diego Water Board staff member Laure Walsh recently surveyed county and municipal jurisdictions (collectively referred to as municipal entities) and the California Department of Transportation (Caltrans) to determine how these entities are responding to increasing litter and trash debris noted at local beaches and parks (collectively referred to as recreational areas) since March 2020, the onset of the COVID19 pandemic. These entities have seen an increase in the public's use of recreational areas during the COVID19 pandemic, apparently triggered in part by governmental stay-at-home and social distancing restrictions. The municipal entities are largely aware of their high use public recreational areas and are striving to provide sufficient maintenance services to handle peak crowds and increase litter removal and trash collection. The municipal entities are collecting more food take-out packaging at recreational areas as a direct result of governmental restrictions on eat-in operations at restaurants. Response actions to address increased use of recreational areas include adding additional trash and recycle receptacles and increasing trash pickup to twice a day in some locations. Specific actions and measures taken since the onset of the COVID19 pandemic to address litter removal and trash collection at recreational areas along the coast are described below:

Entity	Actions
City of Imperial Beach	<ul style="list-style-type: none"> • Implements daily trash pickup at public beaches. • Supports trash service along the Tijuana River Estuary and the San Diego Bay Bayshore Bikeway. • Using ½ cent sales tax revenue increases adopted in November 2020, for Clean and Safe Streets to accelerate improvements related to trash control.
City of Coronado	<ul style="list-style-type: none"> • Increased availability of trash receptacles from 70 receptacles to 110 receptacles at strategic beach locations. • Implements seven days per week beach patrols for trash collection. • Implements increased janitorial services to disinfect all beach restrooms every two hours.
City of Del Mar	<ul style="list-style-type: none"> • Implements increased janitorial services to disinfect all beach restrooms every two hours. • Increased staffing of beach maintenance crews from six persons to eight persons. • Increased trash pickup from three times per month to six times per month.

Entity	Actions
City of Oceanside	<ul style="list-style-type: none"> • Implements early morning daily clean-up along Oceanside Harbor. • Determined existing trash clean-up schedules along the Strand and Oceanside Pier are effective in controlling trash.
City of Solana Beach	<ul style="list-style-type: none"> • No additional measures were implemented to control increased trash observed because of COVID19. Existing measures to control trash were determined to be effective. • Implements street sweeping near the beach from two to four times per month. Existing sweeping schedule determined to be adequate during COVID19 pandemic.
City of Carlsbad	<ul style="list-style-type: none"> • Increased total capacity of trash and recycle receptacles at key locations. • Increased frequency of trash pickups and added trash pickups on weekends. • Trash adequately managed by State Department of Parks and Recreation at State beach locations.
City of Encinitas	<ul style="list-style-type: none"> • Existing trash pickup service and trash bin capacity remained adequate. • Continued implementation of comprehensive Plastics Initiative effectively prohibiting distribution of plastic beverage containers and retail sale of Styrofoam food service and water containers.
City of San Diego	<ul style="list-style-type: none"> • Increased trash pickup from Sunset Cliffs Natural Park north to Torrey Pines Glider Port from four days to seven days per week. • Second trash can service added to daily morning beach clean-ups including raking of sand for debris removal. • Implemented clean-up and removal of 75 to 100 Illegal fire pits per day at public beaches.
Port of San Diego	<ul style="list-style-type: none"> • Existing trash pickup service and trash bin capacity remained adequate. • Relocated trash receptacles to higher trash generating areas. • Purchased new more efficient waste management equipment.
City of San Clemente	<ul style="list-style-type: none"> • Existing trash pickup service and trash bin capacity remained adequate.
City of Laguna Beach	<ul style="list-style-type: none"> • Existing daily trash pickup service and 600 trash bin capacity remained adequate. • Existing street sweeping schedules remained sufficient to collect increased amounts of trash and litter identified on streets.

Entity	Actions
Caltrans	<ul style="list-style-type: none"> • Focused trash related efforts were reduced to two days per month because of reductions in staff availability due to positive COVID cases, reduced volunteer efforts, and fewer sponsors of the Adopt-a-Highway litter removal and beautification program. • Public health mandate that those experiencing homelessness shelter-in-place restricted clean-up of trash at encampments. • Increased night street sweeping and working with California Highway Patrol and landfill operators to enforce rules related to covering loads in vehicles.

2. US-Mexico-Canada Agreement Border Water Pollution Funding and the USEPA Eligible Public Entities Coordination Group (EPECG) Meeting (*Attachment A-2*)

Staff Contact: David Gibson

The U.S. EPA held a meeting of the EPECG on February 25, 2021. A public meeting was held by U.S. EPA on the following day. The meetings included presentations on the ten projects being evaluated for the USMCA funds by U.S. EPA staff and contractors to reduce cross border pollution (*Attachment A-2*). It appears that the focus is shifting within EPA to sewerage system improvements in Tijuana and increased US treatment of wastewater from Tijuana at the South Bay International Wastewater Treatment Plant (SBIWTP) and the City of San Diego Water Reclamation Plant (WRP). Several members of the public agencies present expressed concerns regarding scoring criteria and the lack of detail in the design descriptions of projects being scored for priority. The future consideration of the top priority of the Water Board and local agencies, Project 1, appears to be in doubt. While improvements to coastal water quality from redirection of wastewater flows in Tijuana from San Antonio de los Buenos to the SBIWTP or WRP may improve coastal water quality, that focus may leave the Tijuana River and Estuary without significant relief or reduction of transboundary flows of waste including sediment, trash, sewage and industrially contaminated dry weather flows, and grossly polluted storm water flows. Several members of the EPECG are drafting a letter to U.S. EPA to express our concerns for the project review process and to reiterate the need to address transboundary flows of wastes in the Tijuana River Valley and Estuary.

Please contact Executive Assistant, Christina Blank for a copy of *Attachment A-2*:
Christina.Blank@Waterboards.ca.gov

Part B – Significant Regional Water Quality Issues

1. Sanitary Sewer Overflows and Transboundary Flows from Mexico in the San Diego Region – December 2020 (Attachment B-1)

Staff Contact: Keith Yaeger

Sanitary sewer overflow (SSO) discharges from public 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, thereby threatening public health, adversely affecting aquatic life, and impairing 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, estuaries, and beaches.

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 SSO spills are required to be reported under the [Statewide General SSO Order](#)¹, the [San Diego Regional General SSO Order](#)², and/or individual National Pollutant Discharge Elimination System (NPDES) permit requirements. Some federal entities³ report this information voluntarily. Most SSO reports are available to the public on a real-time basis at the following State Water Board webpage: 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:

- Table 1: December 2020 - Summary of Public and Federal Sanitary Sewer Overflow Events
- Table 2: December 2020 - Summary of Private Lateral Sewage Discharge Events

¹ 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*.

² San Diego Water Board Order No. R9-2007-0005, *Waste Discharge Requirements for Sewage Collection Agencies in the San Diego Region*.

³ 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.

- Table 3: December 2020 - Summary of Sewage Discharges by Source

A summary view of information on SSO trends is provided in the following attached figures:

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

The figures show the number and total volume of sewage spills per month from December 2019 to December 2020. 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 313 sewage spills were reported and over 12.8 million gallons of sewage reached surface waters.

Additional information about the San Diego Water Board sewage overflow regulatory program is available at https://www.waterboards.ca.gov/sandiego/water_issues/programs/ss0/index.shtml.

Transboundary Flows

Water and wastewater in the Tijuana River and from canyons located along the international border ultimately drain from the City of Tijuana, Mexico into the United States (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 that capture dry weather transboundary flows for treatment at the South Bay International Wastewater Treatment Plant (SBIWTP) 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,⁴ 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 of California (State), potentially polluting the Tijuana River Valley and Estuary, and south San Diego beach coastal waters.

In December 2020, there were nine reported dry weather transboundary flows. In total, the reported dry weather transboundary flows during this period resulted in over seven million gallons of contaminated water⁵ flowing from Mexico into the United States. USIBWC reported that due to an increase in wastewater flows in Mexico, a dual pump station in Mexico (PB1A and PB1B) is currently exceeding capacity resulting in wastewater overflows. The wastewater overflows from PB1A and PB1B enter the U.S. at Stewart's Drain. Additionally, since August 2020, a gate valve at Junction Box 1 (JB1) in the U.S. being used to control the amount of wastewater from Mexico entering the SBIWTP became inoperable. USIBWC currently has no ability to control the

⁴ Tijuana River transboundary flows typically consist of a mixture of groundwater, urban run-off, storm water, treated sewage wastewater, and untreated sewage wastewater from infrastructure deficiencies and other sources in Mexico.

⁵ As used in this report, the term "contaminated water" is intended to refer to water that either meets the definition of "contamination" under Water Code section 13050(k) or that creates, or threatens to create, a condition of "pollution" under Water Code section 13050(l).

amount of wastewater flows entering the SBIWTP. The Stewart's Drain canyon collector is unable to divert flow from the collector to the SBIWTP when the pipeline from Mexico to the SBIWTP is at capacity, resulting in a transboundary flow discharge to a drainage channel tributary to the Tijuana River. The San Diego Water Board has requested additional information from USIBWC to better define the causes of the increase in wastewater flows to PB1A and PB1B and the failure of JB1, and the connection between these issues and the increased flows at SBIWTP and Stewart's Drain. The San Diego Water Board will continue to provide updates in future Executive Officer's Reports.

Details on the transboundary flows reported in December 2020 are provided in the attached tables:

- Table 4: December 2020 - Summary of Transboundary Flows from Mexico by Event
- Table 5: December 2020 - Summary of Transboundary Flows from Mexico by Weather Condition

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)⁶ share responsibility for addressing border sanitation problems, including transboundary flows. Efforts on both sides of the border have led to the construction and 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 transboundary flows conveyed from canyon collectors located in Smuggler's 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 USIBWC's NPDES permit, Order No. R9-2014-0009.
- Several pump stations and wastewater treatment plants in Tijuana, Mexico.
- The River Diversion Structure and Pump Station CILA in the City of Tijuana diverts dry weather transboundary flows from the Tijuana River. The flows are diverted to a discharge point at the Pacific Ocean shoreline, approximately 5.6 miles south of the U.S./Mexico border; or the flows can be diverted to SBIWTP or another wastewater treatment plant in Tijuana, depending on how Tijuana's public utility department (CESPT) directs the flow into 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, 22.8 MGD).

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

⁶ The Mexican section of the IBWC.

Part C – Statewide Issues of Importance to the San Diego

1. Statewide Toxicity Provisions Adopted

Staff Contact: Cynthia Gorham

The State Water Resources Control Board (State Water Board) adopted statewide numeric water quality objectives (WQOs) for both acute and chronic toxicity and a program of implementation to control toxicity, which are collectively known as the Toxicity Provisions (Provisions) on December 1, 2020. The Provisions provide consistent protection of aquatic life beneficial uses in inland surface waters, enclosed bays and estuaries throughout the state, and protect aquatic habitats and life from the effects of known and unknown toxicants. The Provisions are expected to be final by summer 2021.

The Provisions will take effect upon approval by the California Office of Administrative Law for purposes of state law and upon approval by the U.S. Environmental Protection Agency for purposes of federal law. Implementation will begin following these approvals and as permits or orders are renewed. The Provisions will be implemented in Non-Storm Water NPDES, Storm Water NPDES, Nonpoint Source, and other Non-NPDES discharger programs. The Provisions provide WQOs for chronic and acute aquatic toxicity, a Test of Significant Toxicity (TST) statistical approach, and guidance on the interaction between the Provisions and Section 4 of the State Implementation Policy (SIP), total maximum daily loads (TMDLs), Basin Plans, and existing WQOs.

Documents and additional information on the Toxicity Provisions are available at: https://www.waterboards.ca.gov/water_issues/programs/state_implementation_policy/t_x_ass_cntrl.html, with direct links to the [Proposed Final Toxicity Provisions \(ca.gov\)](#) and the [Proposed Final Staff Report \(ca.gov\)](#).

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

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

March 10, 2021

APPENDED TO EXECUTIVE OFFICER'S REPORT

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

Action Agenda Items – San Diego Water Board

**April 14, 2021
Remote Meeting**

Action Agenda Item	Action Type	Written Comments Due	Consent Item
Sediment Cleanup and Navy Dredging Update for San Diego Bay. <i>(McClain)</i>	Informational Item	NA	NA
PFAS – Detection to Protection: Methods for Finding and Removing 'Forever Chemicals' in Drinking Water. <i>(Boyd)</i>	Informational Item	NA	NA
Tentative Order: Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order in the Matter of City of Laguna Beach November 2019 Sanitary Sewer Overflow to Aliso Creek and the Pacific Ocean (Tentative Order No. R9-2021-0008). <i>(Clemente)</i>	ACL	TBD	No

**May 12, 2021
Remote Meeting**

Action Agenda Item	Action Type	Written Comments Due	Consent Item
Affirmation of Time Schedule Order (TSO) No. R9-2021-0028, An Order Requiring Designated Responsible Permittees to Comply with Bacteria Total Maximum Daily Load (TMDL) Requirements Prescribed in the Regional Municipal Separate Storm Sewer Systems (MS4) Permit for the San Diego Region. <i>(Yu)</i>	Resolution	NA	No
Waste Discharge Requirements for the United States Section of the International Boundary and Water Commission, South Bay International Wastewater Treatment Plant, Discharge to the Pacific Ocean through the South Bay Ocean Outfall (Tentative Order No. R9-2021-0001, NPDES No. CA0108928). <i>(Rodriguez and Yaeger)</i>	NPDES Permit Reissuance	25-March-21	No

Action Agenda Item	Action Type	Written Comments Due	Consent Item
Waste Discharge Requirements for the City of San Diego, South Bay Water Reclamation Plant, Discharge to South Bay Ocean Outfall (Tentative Order No. R9-2021-0011, NPDES No. CA0109045). <i>(Osibodu and Yaeger)</i>	NPDES Permit Reissuance	25-March-21	No

**June 9, 2021
Remote Meeting**

Action Agenda Item	Action Type	Written Comments Due	Consent Item
Waste Discharge Requirements for the South Orange County Wastewater Authority (SOCWA) Discharge to the Pacific Ocean through the Aliso Creek Ocean Outfall (Tentative Order No. R9-2021-0055, NPDES No. CA0107611). <i>(Lim and Yaeger)</i>	NPDES Permit Reissuance	TBD	TBD
General National Pollutant Discharge Elimination System (NPDES) Permit for the Discharge of Lanthanum-Modified Clay to Surface Waters of the United States in the San Diego Region (Tentative Order No. R9-2021-0056, NPDES No. CAG999003). <i>(Yaeger)</i>	NPDES Permit Reissuance	TBD	TBD
Master Recycling Permit for South Bay Water Reclamation Facility, City of San Diego, San Diego County (Tentative Order No. R9-2021-0015). <i>(Bushnell)</i>	Master Recycling Permit	TBD	No
Addendum No. 1 to Order No. R9-2020-0108, An Addendum Transferring Responsibility for Order No. R9-2020-0108 from Sudberry Development, Inc., and PERCWater to Thomas J. Puttman, Civita Recycled Water Company, LLC, and Mark Radelow, Sudberry Properties, Civita Water Reclamation Facility, San Diego County. <i>(Komeylyan)</i>	Waste Discharge Requirement Addendum	TBD	Yes
Rescission of Order No. 94-114, Waste Discharge Requirements for State of California Department of Parks and Recreation, Cuyamaca Rancho State Park, San Diego County. <i>(Komeylyan)</i>	Waste Discharge Requirements Rescission	TBD	Yes

Action Agenda Item	Action Type	Written Comments Due	Consent Item
Rescission of Order No. R9-2006-0049, Waste Discharge Requirements for the Pauma Valley Treatment Plant, San Diego County (Tentative Order No. R9-2021-0037). <i>(Komeylyan)</i>	Waste Discharge Requirements Rescission	9-April-21	Yes

Agenda Items Requested by Board Members**June 10, 2020**

Requested Agenda Item	Board Member	Status
San Diego State University (SDSU) to present the findings of its preliminary homeless encampment bacteria report.	Strawn	Ongoing
Orange County Water District to present its PFAS Pilot Program and a representative from OEHHA to discuss the appropriate laboratory analytical test methods for PFAS at a future Board Meeting.	Abarbanel, Olson	April 2021

August 12, 2020

Requested Agenda Item	Board Member	Status
Update on how municipalities in the Region are dealing with increased trash in public spaces (specifically beaches) given intensified use during the COVID pandemic.	Warren	April 2021 EO Report
Any agreement or resolution to use Supplemental Environmental Project funds to supplement SCCWRP Ambient Monitoring Programs include an effort to avoid spending SEP funds on administrative costs.	Abarbanel	Summer 2021

September 9, 2020

Requested Agenda Item	Board Member	Status
Update on new scientific information regarding climate change and how we are including climate change considerations in our work.	Abarbanel	Fall 2021

October 14, 2020

Requested Agenda Item	Board Member	Status
Notify Board Members when staff plan to attend community of public environmental meetings for outreach purposes so they can participate should they desire.	Warren	Ongoing

November 18, 2020

Requested Agenda Item	Board Member	Status
Staff to keep Board Member informed of any water quality concerns within the San Diego Region that should be shared with the Water Quality Subcommittee for the Western States Water Council.	Olson	Ongoing
Notification of dates when the San Diego City Council will consider taking an action on the De Anza Cove Amendment to the Mission Bay Park Master Plan and any related CEQA actions.	Abarbanel	Ongoing
Updates on the City of San Diego's planning process for the De Anza/ReWild project when available.	Warren	Ongoing
Monthly check-in about the progress of the Lake San Marcos project.	Olson	Ongoing

December 8, 2020

Requested Agenda Item	Board Member	Status
Updates about the United States-Mexico-Canada Agreement (USMCA) Border Fund projects as they are drafted for staff consideration	Warren	Ongoing
Update on Tijuana River pollutant flows and response options.	Cantú, Warren	Ongoing

February 10, 2021

Requested Agenda Item	Board Member	Status
Update about the range of chemicals that might cause problems with the symporter of the fetus.	Olson	Summer 2021

Table 1: December 2020 – Summary of Public and Federal Sanitary Sewer Overflow Events

Responsible Collection System Agency	Total Volume (Gallons) ¹	Total Recovered (Gallons) ²	Total Reaching Surface Waters (Gallons) ³	Total Reaching Separate Storm Drain and Recovered (Gallons) ⁴	Total Discharged to Land (Gallons) ⁵	Surface Water Body Affected ⁶	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area ⁷
City of Escondido	2,260	2,260	0	2,260	0	Not Applicable	8.5	344.0	148,000
City of La Mesa	16	16	0	0	16	Not Applicable	0.0	155.0	58,244
City of Poway	232	0	232	0	0	Not Reported	3.5	185.0	45,800
City of San Diego	6,323	0	0	0	6,323	Not Applicable	112.5	2,925.1	2,500,000

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

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

³ 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.

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

⁵ Total Discharged to Land = total amount reaching land.

⁶ Agencies are only required to note the surface water body affected if the discharge reaches or has the potential to reach a surface water. If the discharge did not reach a surface water and does not have a potential to reach a surface water (i.e., a discharge to land or a discharge to a separate storm drain that is fully recovered) the surface water body affected is listed as "Not Applicable." If the discharge was to a surface water body or to a separate storm drain and was not fully recovered, and the surface water body was not reported, the surface water body affected is listed as "Not Reported."

⁷ As reported in the Collection System Questionnaire required under Order No. 2006-0003-DWQ.

Responsible Collection System Agency	Total Volume (Gallons)¹	Total Recovered (Gallons)²	Total Reaching Surface Waters (Gallons)³	Total Reaching Separate Storm Drain and Recovered (Gallons)⁴	Total Discharged to Land (Gallons)⁵	Surface Water Body Affected⁶	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area⁷
City of San Diego	255	0	0	0	255	Not Applicable	112.5	2,925.1	2,500,000
El Toro Water District	1,700	1,300	200	0	1,500	Aliso Creek	6.0	114.0	48,821
Rainbow Municipal Water District	4,800	0	4,800	0	0	Drainage Channel	3.0	87.0	12,489
Ramona Municipal Water District	15	0	0	0	15	Not Applicable	4.0	45.0	13,174
San Diego County Sanitation District	62	0	0	0	62	Not Applicable	5.3	422.0	154,716

Table 2: December 2020 – Summary of Private Lateral Sewage Discharge Events

Responsible Collection System Agency	Total Volume (Gallons)¹	Total Recovered (Gallons)²	Total Reaching Surface Waters (Gallons)³	Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land (Gallons)⁴	Surface Water Body Affected⁵	Population in Service Area⁶	Number of Lateral Connections
City of El Cajon	25	25	0	25	Not Applicable	103,894	16,950
City of Laguna Beach	15	15	0	15	Not Applicable	18,000	6,650
City of Poway	5	0	0	5	Not Applicable	49,986	12,267
City of San Diego	41	41	0	41	Not Applicable	2,500,000	265,012
City of San Diego	36	10	26	10	Not Reported	2,500,000	265,012
City of San Juan Capistrano	60	20	40	20	Not Reported	40,000	10,280
City of Vista	78	78	0	78	Not Applicable	91,800	16,823
El Toro Water District	100	50	50	50	Not Reported	48,821	9,549

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

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

³ 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.

⁴ 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.

⁵ Agencies are only required to note the surface water body affected if the discharge reaches or has the potential to reach a surface water. If the discharge did not reach a surface water and does not have a potential to reach surface water (i.e., a discharge to land or a discharge to a separate storm drain that is fully recovered) the surface water body affected is listed as "Not Applicable." If the discharge was to a surface water body or to a separate storm drain and was not fully recovered, and the surface water body was not reported, the surface water body affected is listed as "Not Reported."

⁶ As reported in the Collection System Questionnaire required under Order No. 2006-0003-DWQ.

Responsible Collection System Agency	Total Volume (Gallons)¹	Total Recovered (Gallons)²	Total Reaching Surface Waters (Gallons)³	Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land (Gallons)⁴	Surface Water Body Affected⁵	Population in Service Area⁶	Number of Lateral Connections
Fallbrook Public Utility District	50	50	0	50	Not Applicable	23,000	4,695
Leucadia Wastewater District	347	210	137	210	Not Reported	62,607	20,682
Moulton Niguel Water District	120	30	0	120	Not Applicable	172,068	50,638
Padre Dam Municipal Water District	90	90	0	90	Not Applicable	70,492	15,641
Ramona Municipal Water District	10	0	0	10	Not Applicable	13,174	4,379

Table 3: December 2020 – Summary of Sewage Discharges by Source

Spill Type	Month/Year	Number of Spills	Total Volume (Gallons)¹	Total Recovered (Gallons)²	Total Reaching Surface Waters (Gallons)³	Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land (Gallons)⁴
Public Spills	December 2020	9	15,663	3,576	5,232	10,431
Federal Spills	December 2020	0	0	0	0	0
Private Spills	December 2020	13	977	619	253	724
All Spills	December 2020	22	16,624	4,179	5,485	11,123

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

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

³ 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.

⁴ 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.

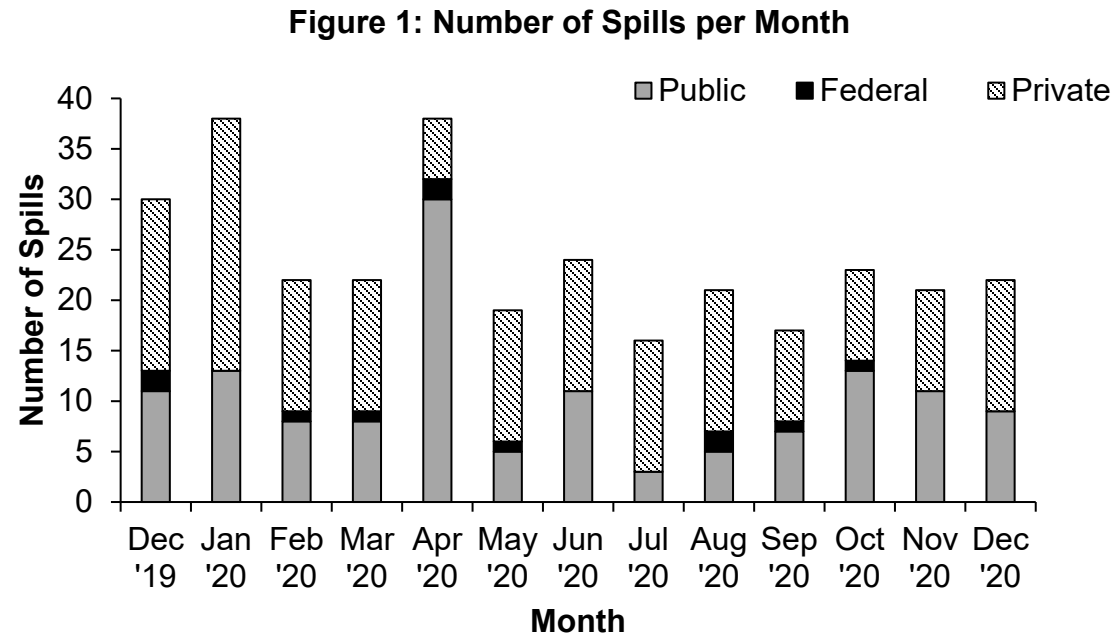


Figure 1: The number of public, federal, and private sewage spills per month from December 2019 to December 2020.

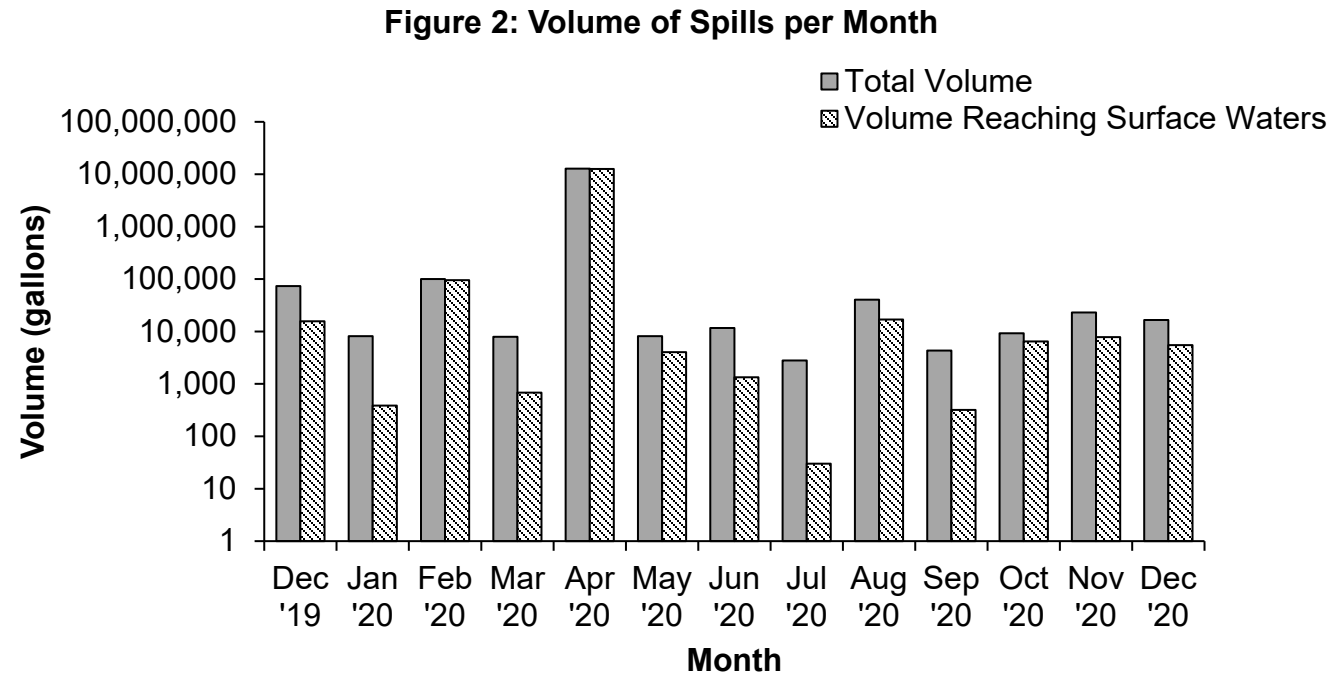


Figure 2: The volume of public, federal, and private sewage spills per month from December 2019 to December 2020. Note the logarithmic scale on the vertical axis showing the wide variation in spill volumes.

Table 4: December 2020 – Summary of Transboundary Flows from Mexico by Event^{1,2}

Location	Date(s) of Transboundary Flow	Weather Condition ³	Total Volume (Gallons)	Total Recovered (Gallons)	Total Reaching Surface Waters (Gallons)	Additional Details
Tijuana River	12/12/20 through 12/13/20	Dry	2,920,000	0	2,920,000	Due to a power outage at Pump Station CILA and insufficient power from backup generators to run all pumps, flows in the Tijuana River bypassed the River Diversion Structure and crossed the U.S./Mexico border.
Stewart's Drain	12/15/20	Dry	589	0	589	Peak wastewater flows in Mexico exceeded the capacity of Mexico's infrastructure resulting in an overflow that entered the U.S. at Stewart's Drain. The Stewart's Drain canyon collector was unable to divert the excess flow.
Tijuana River	12/16/20 through 12/17/20	Dry	2,870,000	0	2,870,000	Due to a power outage at Pump Station CILA and insufficient power from backup generators to run all pumps, flows in the Tijuana River bypassed the River Diversion Structure and crossed the U.S./Mexico border.
Stewart's Drain	12/19/20	Dry	43,354	0	43,354	Peak wastewater flows in Mexico exceeded the capacity of Mexico's infrastructure resulting in an overflow that entered the U.S. at Stewart's Drain. The Stewart's Drain canyon collector was unable to divert the excess flow.

¹ Transboundary flow volumes are obtained from self-monitoring reports submitted by USIBWC under Order No. R9-2014-0009.

² There are inconsistencies with the information provided by USIBWC regarding the transboundary flows occurring in November 2020. The information provided is the San Diego Water Board's current understanding of the transboundary flow events. USIBWC is working to correct the deficient and/or inaccurate reporting.

³ Order No. R9-2014-0009 requires monthly reporting of all dry weather transboundary flows defined as the preceding 72 hours have been without precipitation greater than 0.1 inch, based on the Goat Canyon Pump Station rain gauge. Wet weather transboundary flows are not required to be reported and information is provided voluntarily.

Location	Date(s) of Transboundary Flow	Weather Condition ³	Total Volume (Gallons)	Total Recovered (Gallons)	Total Reaching Surface Waters (Gallons)	Additional Details
Stewart's Drain	12/20/20	Dry	600	0	600	Peak wastewater flows in Mexico exceeded the capacity of Mexico's infrastructure resulting in an overflow that entered the U.S. at Stewart's Drain. The Stewart's Drain canyon collector was unable to divert the excess flow.
Stewart's Drain	12/21/20	Dry	33,000	0	33,000	Peak wastewater flows in Mexico exceeded the capacity of Mexico's infrastructure resulting in an overflow that entered the U.S. at Stewart's Drain. The Stewart's Drain canyon collector was unable to divert the excess flow.
Tijuana River	12/24/20	Dry	344,750	0	344,750	Due to an equipment malfunction at Pump Station 1 (PB1) in Mexico, pumping capacity was reduced at Pump Station CILA causing flows in the Tijuana River to bypass the River Diversion Structure and cross the U.S./Mexico border.
Stewart's Drain	12/26/20	Dry	325,380	0	325,380	Peak wastewater flows in Mexico exceeded the capacity of Mexico's infrastructure resulting in an overflow that entered the U.S. at Stewart's Drain. The Stewart's Drain canyon collector was unable to divert the excess flow.
Tijuana River	12/26/20 through 12/27/20	Dry	777,460	0	777,460	Due to a power outage at Pump Station CILA and insufficient power from backup generators to run all pumps, flows in the Tijuana River bypassed the River Diversion Structure and crossed the U.S./Mexico border.

Location	Date(s) of Transboundary Flow	Weather Condition ³	Total Volume (Gallons)	Total Recovered (Gallons)	Total Reaching Surface Waters (Gallons)	Additional Details
Tijuana River	12/28/20 through 12/31/20	Wet	Not Available	Not Available	Not Available	<p>Pump Station CILA was shut down due to heavy rains on December 28, 2020. With Pump Station CILA shut down, flows in the Tijuana River bypassed the River Diversion Structure and crossed the U.S./Mexico border. The wet weather period ended on December 31, 2020, as defined by Order No. R9-2013-0009; however, Pump Station CILA was not reactivated until January 15, 2021 due to high flows in the Tijuana River.</p>

Table 5: December 2020 - Summary of Transboundary Flows from Mexico by Weather Condition

Weather Condition¹	Month/Year	Total Volume (Gallons)	Total Recovered (Gallons)	Total Reaching Surface Waters (Gallons)
Dry Weather	December 2020	7,315,133	0	7,315,133
Wet Weather	December 2020	Not Available	Not Available	Not Available

¹ Order No. R9-2014-0009 requires monthly reporting of all dry weather transboundary flows. Wet weather transboundary flows are not required to be reported. All wet weather transboundary flow information is provided voluntarily.