California Regional Water Quality Control Board San Diego Region

David Gibson, Executive Officer



Executive Officer's Report March 8, 2023

Table of Contents

Part A – San Diego Region Staff Activities	2
1. Border Water Quality Update (Attachment A-1)	2
Part B – Significant Regional Water Quality Issues	5
Sanitary Sewer Overflows in the San Diego Region – December 2022 (Attachment B-1)	5
2. Transboundary Flows from Mexico into the San Diego Region – December 2022 (Attachment B-2)	7
Part C – Statewide Issues of Importance to the San Diego Region	8

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. Border Water Quality Update (Attachment A-1)

Staff Contact: David Gibson

On Friday, February 10, 2023, construction activity in San Antonio de los Buenos damaged the 60-inch pipeline PB1B south of Tijuana (location: Inverted Siphon No. 4 in La Joya neighborhood). This pipeline failure resulted in significant transboundary flows of sewage into the United States in the tributary canyons of the Tijuana River as well as additional volumes of sewage redirected to the South Bay International Wastewater Treatment Plant (SBIWTP) for treatment. Commissioner Maria-Elena Giner of the U.S. section of International Boundary and Water Commission (IBWC) convened a meeting on February 14th with Mexican IBWC (CILA) Commissioner Adriana Resendez and engineers from IBWC and CILA to discuss the status of the rupture and review strategies to expedite repairs.

To assist the efforts to repair the damaged pipeline (photos 1 and 2, provided by IBWC), the U.S. IBWC loaned a Vactor truck to Mexican officials to clean out the ruptured pipeline and prepare it for repairs. Additional equipment, including pumps and excavation equipment was made available to support the repairs and bring the pipeline back into operation. Both sections of the IBWC met regularly with the officials and staff of the Tijuana utility (CESPT) to review options to mitigate, status of the repairs, identify materials needed for the work and coordinate on the schedule and stakeholder outreach.



Photo 1: Inverted Siphon No. 4 Land Erosion (La Joya)



Photo 2: Inverted Siphon No. 4 Land Erosion (La Joya)

By February 16th, the Canyon Collectors in Smuggler's Gulch and Goat Canyon (Photos 3 and 4, provided by IBWC) were returned to service and began capturing and diverting the excess canyon flows to the SBIWTP. In the meantime, officials in Mexico constructed a 54-inch bypass that became operational on February 22nd. Repairs to the damaged PB1B pipeline were still underway as of February 24th but were expected to be completed during the week of February 27th.





Photo 3: Smuggler's Gulch February 16, 2023

Photo 4: Goat Canyon February 16, 2023

Flows remained high in the Tijuana River (Photo 5, provided by IBWC) following a series of storms and atmospheric river events in December, January, and February. Accordingly, the river diversion pump station (PBCILA) was offline at the time of the PB1B pipeline break. In addition, a major atmospheric river event occurred between February 24th and 25th resulting in higher, polluted flows reaching the estuary and ocean. Although beaches from Border Field State Park to Coronado have been posted daily, the sewage impacts could have been worse without the timely binational engagement and rapid repairs made by CESPT to the damaged infrastructure and the treatment of additional flows in the SBIWTP.

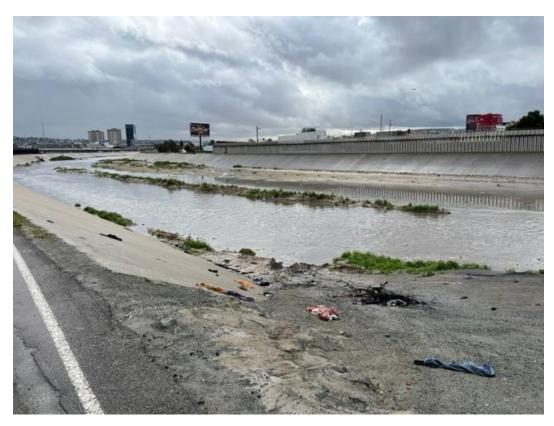


Photo 5: Tijuana River February 23, 2023

On February 8, 2023, Melissa Corona (Water Resource Control Engineer), attended the Minute 320 Binational Workgroup on my behalf. Over 66 people attended from both countries. Several comments were made at the meeting emphasizing the need or desire for more holistic approaches, green or hybrid (green-gray) solutions/infrastructure, engaging with the communities in Tijuana where projects are needed, and social considerations around hydrologic conditions/impacts. Melissa Corona presented our proposal (below) to support the Minute 320 process through a services contract for the Workgroup to draft a Binational Water Quality Improvement Plan to identify key projects, conduct a screening level feasibility analysis, and a strategy to implement the projects. USIBWC also presented a proposal for a binational water quality monitoring project to evaluate baseline conditions in the watershed similar to one they performed in 2018-2019.

On March 2, 2023, I will present a proposal to the San Diego River Conservancy Board of Directors to seek funding to support the binational, Minute 320 efforts to develop a watershed scale water quality improvement plan for the Tijuana River watershed to address sources and conveyances of sediment, trash, and polluted waters (Attachment A-1). Pete Silva, the IBWC Minute 320 Secretariat, will also attend to support the proposal.

Since state funding (SB 170) was awarded in January to Tijuana River border river water pollution control projects proposed by the County of San Diego and the Rural Community Assistance Center/Alter Terra (RCAC), I have met with State Water Board Division of Financial Assistance the applicants on the next steps for each of the three projects to address sediment, trash and hydrology and wetland habitat restoration in the Tijuana River Valley:

- County of San Diego Smuggler's Gulch Improvement Project (\$4,250,000);
- County of San Diego Brown Property Restoration Project (\$2,000,000); and
- Rural Community Assistance Corp. (RCAC) Tijuana River Trash Booms Project (\$4,729,16).

These projects will complement the portfolio of federal and Mexico funded <u>USMCA process</u> and will provide design and trash loading data to support the design and implementation of Project J (long term trash boom project) being studied by US EPA.

Part B – Significant Regional Water Quality Issues

1. Sanitary Sewer Overflows in the San Diego Region – December 2022 (Attachment B-1)

Staff Contact: Fisayo Osibodu

Sanitary sewer systems experience periodic failures resulting in sanitary sewer overflow (SSO) discharges that may affect waters of the United States and/or the State of California (State). There are many factors (including factors related to geology, design, construction methods and materials, age of the system, population growth, and system operation and maintenance), that can influence the likelihood of an SSO and the volume of the discharge. Major causes of SSOs include: grease blockages, root blockages, sewer line flood damage, manhole structure failures, vandalism, pump station failures, power outages, excessive stormwater inflow or groundwater infiltration, debris blockages, failures due to aging sanitary sewer systems, lack of proper operation and maintenance, insufficient capacity, and contractor-caused damages. Many SSOs are preventable with adequate and appropriate facilities, source control measures, and proper operation and maintenance of the sanitary sewer system.

SSO discharges from public sewage collection systems and private laterals into the San Diego Region can contain high levels of suspended solids, pathogens, toxic pollutants, nutrients, and oil and grease. SSO discharges 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 include closure of beaches and other recreational areas, inundation of property, and pollution of rivers, estuaries, and beaches.

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 online database system, the *California Integrated Water Quality System* (CIWQS). These SSOs

are required to be reported under the <u>Statewide General SSO Order</u>, the <u>San Diego Regional General SSO Order</u>, and/or individual National Pollutant Discharge Elimination System (NPDES) permit requirements. Some federal entities report this information voluntarily. Most SSO reports are available to the public on a real-time basis at the <u>State Water Board Public SSO Report Database</u>.

Details on the reported SSOs and private lateral sewage discharges (PLSDs) for October and November 2022 are provided in the following attached tables:

- Table 1: October 2022 Summary of Public and Federal Sanitary Sewer Overflow Events
- Table 2: November 2022 Summary of Public and Federal Sanitary Sewer Overflow Events
- Table 3: October 2022 Summary of Private Lateral Sewage Discharge Events
- Table 4: November 2022 Summary of Private Lateral Sewage Discharge Events
- Table 5: October and November 2022 Summary of Sewage Discharges by Source

A summary view of information on sewage spill trends are provided in the following attached figures:

- Figure 1: Number of Spills per Month
- Figure 2: Volume of Public SSOs per Month
- Figure 3: Volume of Federal SSOs per Month
- Figure 4: Volume of PLSDs per Month

The figures show the number and total volume of sewage spills per month from October 2021 through November 2022. During this period, 34 of the 64 collection systems in the San Diego Region reported one or more sewage spills. Thirty collection systems did not report any sewage spills. A total of 224 sewage spills were reported with about 120,586 gallons of sewage reaching surface waters.

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 R9-2019-0167, NPDES Permit No. CA0109347, *Waste Discharge Requirements for the Marine Corps Base, Camp Pendleton, Southern Regional Tertiary Treatment Plant and Advanced Water Treatment Plant at Haybarn Canyon, Discharge to the Pacific Ocean through the Oceanside Ocean Outfall.* The United States Marine Corps Recruit Depot and the United States Navy voluntarily report sewage spills through CIWQS.

Additional information about the San Diego Water Board sewage overflow regulatory program is available on the San Diego Water Board's SSO Website.

2. Transboundary Flows from Mexico into the San Diego Region – December 2022 (Attachment B-2)

Staff Contact: Vicente Rodriguez

Water and wastewater in the Tijuana River and from canyons located along the international border ultimately drain from the City of Tijuana, Baja California, Mexico (Tijuana) into the United States. The water and wastewater flows are collectively referred to as transboundary flows. The United States Section of the International Boundary and Water Commission (U. S. IBWC) has built canyon collectors that capture dry weather transboundary flows for treatment at the South Bay International Wastewater Treatment Plant (SBIWTP) located at the United States/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 U.S. IBWC pursuant to Order No. R9-2021-0001, the National Pollutant Discharge Elimination System (NPDES) permit for the SBIWTP discharge. These uncaptured flows can enter waters of the United States and/or the State of California (State), potentially polluting the Tijuana River Valley and Estuary, and south San Diego beach coastal waters.

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 <u>IBWC Minute No. 283</u>, the USIBWC and the Comisión Internacional de Limites y Aguas (CILA)⁵ 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 United States/Mexico border, which provides secondary treatment for a portion of the sewage from Tijuana 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 U.S. IBWC's NPDES permit, Order No. R9-2021-0001.
- Several pump stations and wastewater treatment plants (WWTPs) in Tijuana, including the San Antonio de los Buenos WWTP, the La Morita WWTP and the Arturo Herrera WWTP.

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

⁵ The Mexican section of the IBWC.

• The River Diversion Structure and Pump Station CILA in Tijuana which 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 United States/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 million gallons per day).

In October and November 2022, there were a total of 4 reported transboundary flows resulting in more than 2.4 billion gallons of contaminated water flowing from Mexico into the United States. This includes one spill from the South Bay International Wastewater Treatment Plant. These flows were the result of rain events.

Details on the transboundary flows reported in October and November are provided in the attached tables:

- Table 1: October and November 2022- Summary of Transboundary Flows from Mexico by Event
- Table 2: October and November 2022- Summary of Transboundary Flows from Mexico A summary view of information on transboundary flow trends are provided in the following attached figures:
- Figure 1: Number of Transboundary Flows per Month
- Figure 2: Tijuana River Transboundary Flow Volume per Month
- Figure 3: Canyon Collector Transboundary Flow Volume per Month

These figures show the number and volume of transboundary flows per month from October 2021 through November 2022. During this period, there were a total of 53 reported transboundary flows resulting in more than 12.37 billion gallons of contaminated water flowing from Mexico into the United States.

Additional information about sewage pollution within the Tijuana River Watershed is available on the San Diego Water Board's Tijuana River Watershed Website.

Part C – Statewide Issues of Importance to the San Diego Region No Reports

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

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

March 8, 2023
APPENDED TO EXECUTIVE OFFICER'S REPORT

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

April 12, 2023 Laguna Beach City Council Chambers

Action Agenda Item	Action Type	Written Comments Due
Recission of Order No. 94-136, Waste Discharge Requirements for Mr. William R. Severance, Lake Morena Trailer Resort, San Diego County (Tentative Order No. R9-2023-0018). (Mahsa Izadmehr)	Waste Discharge Requirement Rescission	2/13/2023
Waste Discharge Requirements for Southern California Edison Company, Decommissioning of San Onofre Nuclear Generating Station, San Diego County Discharge to the Pacific Ocean (Tentative Order No. R9-2023-0011, NPDES No. CA0109282). (Joann Lim)	NPDES Permit Reissuance	TBD
Orange County Outreach to Elected Officials (David Gibson)	Informational Item	N/A

May 10, 2023 San Diego Water Board Meeting Room

Action Agenda Item	Action Type	Written Comments Due
Rescission of Order No. R9-2015-0012, Waste Discharge Requirements for United States Navy, Remote Training Site Warner Springs Onsite Wastewater Treatment System, San Diego County (Tentative Order No. R9-2023-0020). (Brandon Bushnell)	Waste Discharge Requirement Rescission	3/27/2023

Action Agenda Item	Action Type	Written Comments Due
An Order Requiring Designated Responsible Permittees to Comply with Bacteria TMDL Requirements Prescribed in the Regional Municipal Separate Storm Sewer Systems Permit for the San Diego Region (Tentative Time Schedule Order No. R9-2023-0005). (Mireille Garcia and Laurie Walsh)	Time Schedule Order Issuance	2/17/2023
Agricultural Listening Session to hear from Interested, Concerned, and Informed Stakeholders regarding the Agricultural Community Concerns Raised at the September 2022 Board Meeting. (Ben Neill, Cailynn Smith, Abigail Pashina)	Listening Session	N/A

June 14, 2023
San Diego Water Board Meeting Room

Action Agenda Item	Action Type	Written Comments Due
Rescission of Order No. 94-119, Waste Discharge Requirements for Vernon and Jane Shears, Twin Lakes Resort, San Diego County (Tentative Order No. R9-2023-0040). (Mahsa Izadmehr)	Waste Discharge Requirement Rescission	TBD
Waste Discharge and Water Reclamation Requirements for Genentech Inc., Recycled Industrial Wastewater for Irrigation Reuse, San Diego County (Tentative Order No. R9- 2023-0014). (Mahsa Izadmehr)	Waste Discharge Requirements	TBD

Action Agenda Item	Action Type	Written Comments Due
Waste Discharge Requirements for the Rancho Guejito Corporation Rockwood Domestic Water System, San Diego County (Tentative Order No. R9-2023-0005). (Brandon Bushnell)	Waste Discharge Requirements	TBD
General Waste Discharge Requirements for Discharges from Shipyards to San Diego Bay, San Diego County (Tentative Order No. R9-2023-0012, NPDES No. CAG039001). (Debbie Phan)	General NPDES Permit Issuance	TBD
Waste Discharge Requirements for the United States Department of the Navy for the Naval Bases in the San Diego Region, San Diego County (Tentative Order No. R9-2023-0010, NPDES No. CA9000001). (Vicente Rodriguez)	Regional NPDES Permit Reissuance	TBD
Waste Discharge Requirements for the Prima Deshecha Landfill, Zone 1, San Juan Capistrano, County of Orange, Orange County (Tentative Order No. R9-2023-0001). (Josh Hufferd)	Waste Discharge Requirements	TBD
Cease and Desist Order: Sanitary Sewer Collection System (Tentative Order No. R9-2023-0016. (Christina Arias)	Hearing	TBD

Action Agenda Item	Action Type	Written Comments Due
Settlement Agreement for Administrative Civil Liability with Supplemental Environmental Project for Violations of Sanitary Sewer Overflow Waste Discharge Requirements. (Christina Arias)	Hearing	TBD

Agenda Items Requested by Board Members

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	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	Winter 2022-23

March 10, 2021

Requested Agenda Item	Board Member	Status
Annual update on the progress and accomplishments of the Project Clean Water program, including information related to the impacts of the program on water quality.	Abarbanel, Warren	Ongoing
Region-wide workshop regarding the water quality issues in the Tijuana River Valley, including a discussion of water quality objectives and steps needed to achieve them.	Abarbanel	2023

April 14, 2021

Requested Agenda Item	Board Member	Status
Update from State Board on the lessons learned regarding the use of Zoom remote meeting platform for Board Meetings to inform how the Regional Boards move forward when we return to the office and hold Board meetings in person	Warren	2023
Information regarding the Water Board's Training Academy climate change courses	Abarbanel	Upcoming

August 11, 2021

Requested Agenda Item	Board Member	Status
Drought and sustainability meeting with County Water Authority to find out how we can support their efforts	Abarbanel	Winter 2022-23

December 8, 2021

Requested Agenda Item	Board Member	Status
Update on the Contact Water Recreation (REC-1) Water Quality Objectives project, with information regarding the use of HF-183 in particular.	Olson	Upcoming

February 9, 2022

Requested Agenda Item	Board Member	Status
Update on homeless issues along the San Diego River and efforts being made to address the issues	Strawn	Summer 2022

March 9, 2022

Requested Agenda Item	Board Member	Status
Update on SOCWA Ocean Acidification and Hypoxia Model.	Abarbanel, Strawn	Summer 2022

May 11, 2022

Requested Agenda Item	Board Member	Status
Atmospheric Rivers Presentation from Dr. Marty Ralph, Scripps Institution of Oceanography	Abarbanel	March 2023
Lockheed Martin Tow Basin Cleanup Updates	Abarbanel, Olson	Ongoing
Environmental Justice outreach event	Warren	Summer 2023

Requested Agenda Item	Board Member	Status
Agricultural effects resulting from Colorado River water allocation reductions.	Olson	Ongoing
Update on current status and future plans for the City of San Diego Pure Water Project	Abarbanel	Winter 2022-23

September 14, 2022

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Requested Agenda Item	Board Member	Status
Public Workshop to discuss the concerns of the regulated community and to receive input on the future update to the agricultural orders	Abarbanel	April 2023

November 9, 2022

Requested Agenda Item	Board Member	Status
Update on monitoring and debris removal associated with the NPDES permit for discharges from fireworks	Various	Spring 2023
Annual progress reports on implementation of the Strategic Water Quality Assessment Approach for San Diego Bay	Olson, Warren	August 2023

February 8, 2023

Requested Agenda Item	Board Member	Status
Update regarding Colorado River water availability and plans to allocate the water	Cantú	April 2023
Update on how the State Water Resources Control Board provides drought messaging to the public	Warren	2023
Update on the use of drones and other surveillance methods and the restrictions associated with using these methods for inspections	Olson	April 2023

Requested Agenda Item	Board Member	Status
Update regarding the County of Orange's H ₂ OC Stormwater Program and the outreach and tracking efforts currently in use for that program	Warren	April 2023
Update regarding requirements of Assembly Bill 2108, which adds sections 189.7 and 13149.2 to the California Water Code	Cantú	May 2023



Minute 320 Binational Framework to Address Sediment, Trash, and Water Quality

- 2015 Approved by IBWC
- 2016-2018 Workgroups
 - Sediment
 - Trash
 - Water quality
- 2022 Binational Core Group (BCG) Re-Constituted
- 2023 Workgroup and BCG
 Meetings



Proposal

- Technical Support Services Contract \$175,000
- Binational Framework Water Quality Improvement Plan (Plan)
 - Identify Binational Workgroup Consensus Projects with Mutual Benefits
 - Address sources and conveyances of polluted water, sediment, flooding, and trash
 - Identify lead agency
 - Scoping level feasibility analysis
- Follow the process and format of the County Needs and Opportunities Assessment Report (2020)
- Approval by Mexico and U.S. Commissioners May 2024

Next Steps

- February 2023 Workgroups Meeting (Tijuana)
- March 2023 Binational Core Group Meeting
- August 2023 Select Contractor
- October 2023 Projects List & Analysis
- January 2024 Draft Plan
- April/May Final Plan
- June 2024 Close Out Reporting



Recommendation

Adoption of Resolution No. 22-03



Table 1: December 2022 - 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 Poway	21	21	0	0	21	Not Applicable	3.5	185.0	43,216
City of Poway	9,500	9,500	0	0	9,500	Not Applicable	3.5	185.0	43,216
City of San Diego	60	60	0	0	60	Not Applicable	112.2	2,944.9	2,380,000
City of San Diego	160	160	150	150	10	Drainage Channel	112.2	2,944.9	2,380,000

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 Affected ⁶	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area ⁷
City of San Diego	170	170	145	15	10	Drainage Channel Tributary to Marian Bear Open Space Park	112.2	2,944.9	2,380,000
City of San Diego	119	0	0	0	119	Not Applicable	112.2	2,944.9	2,380,000
City of San Diego	60	0	0	0	60	Not Applicable	112.2	2,944.9	2,380,000
City of San Diego	210	0	0	0	210	Not Applicable	112.2	2,944.9	2,380,000
City of San Diego	240	100	140	100	0	Chollas Creek	112.2	2,944.9	2,380,000
City of San Diego	375	0	0	0	375	Storm Drain	112.2	2,944.9	2,380,000
Santa Margarita Water District	60	60	0	0	60	Not Applicable	14.0	639.9	170,000
United States Marine Corps Base Camp Pendleton	430	0	0	0	430	Not Applicable	39.2	125.0	83,340

Table 2: December 2022 – 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 Affected ⁵	Population in Service Area ⁶	Number of Lateral Connections
Buena Sanitation District	50	50	0	50	Not Applicable	41,000	6,495
Buena Sanitation District	100	100	0	100	Not Applicable	41,000	6,495
City of Carlsbad	261	251	10	251	Storm Drain	85,000	24,025
City of Carlsbad	60	45	15	45	Storm Drain	85,000	24,025
City of El Cajon	10	0	0	10	Not Applicable	101,709	17,100
City of San Diego	432	306	126	306	Otay River	2,380,000	267,188
City of San Diego	24	13	11	13	San Diego River	2,380,000	267,188
City of San Diego	189	189	0	189	Not Applicable	2,380,000	267,188
City of San Diego	600	600	0	600	Storm Drain	2,380,000	267,188
County of San Diego	325	250	0	325	Not Applicable	199,000	35,888

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 Affected ⁵	Population in Service Area ⁶	Number of Lateral Connections
Fallbrook Public Utility District	75	75	0	75	Not Applicable	23,000	4,699
Santa Margarita Water District	30	30	0	30	Not Applicable	170,000	52,857

Table 3: December 2022 - 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 2022	11	11,405	10,071	435	11,020
Federal Spills	December 2022	1	430	0	0	430
Private Spills	December 2022	12	2,156	1,909	162	1,994
All Spills	December 2022	24	13,991	11,980	597	13,444

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.

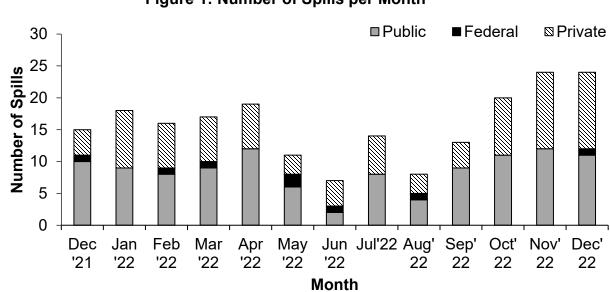


Figure 1: Number of Spills per Month

Figure 1: The number of public, federal, and private sewage spills per month from December 2021 through December 2022.

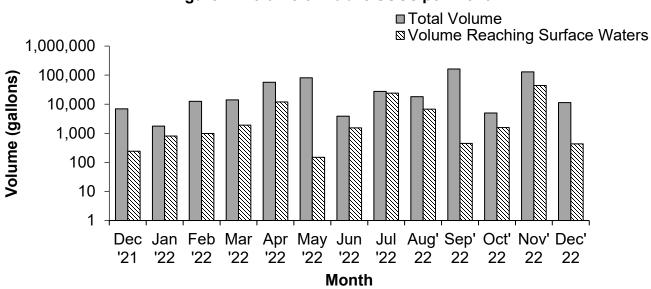


Figure 2: Volume of Public SSOs per Month

Figure 2: The volume of sanitary sewer overflows (SSOs) from public agencies per month from December 2021 through December 2022. Note the logarithmic scale on the vertical axis showing the wide variation in spill volumes.

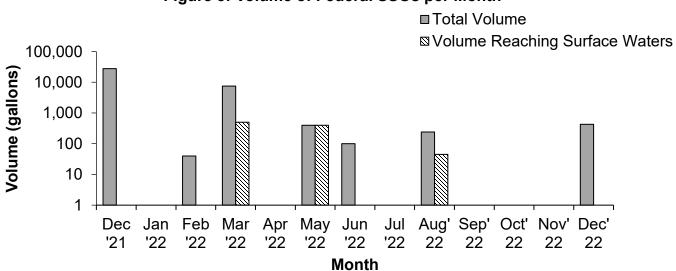


Figure 3: Volume of Federal SSOs per Month

Figure 3: The volume of SSOs from federal agencies per month from December 2021 through December 2022. Note the logarithmic scale on the vertical axis showing the wide variation in spill volumes.

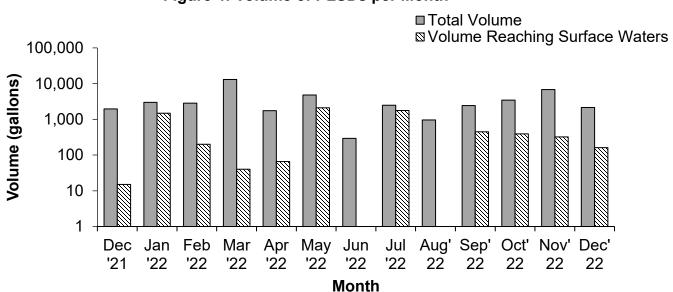


Figure 4: Volume of PLSDs per Month

Figure 4: The volume of private lateral sewage discharges (PLSDs) per month from December 2021 through December 2022. Note the logarithmic scale on the vertical axis showing the wide variation in spill volumes.

Table 1: December 2022- Summary of Transboundary Flows from Mexico by Event¹

Location	Transboundary Flow Start Date	Transboundary Flow End Date	Weather Condition ²	Total Volume (Billion Gallons) ³	Total Volume Recovered (Million Gallons) ³	Total Volume Reaching Surface Waters (Billion Gallons) ³	Additional Details Reported By USIBWC
Tijuana River Main Channel	12/11/2022	12/19/2022	Wet	1.34	0	1.34	Rain Event
Tijuana River Main Channel	12/28/2022	12/31/2022 (Ongoing)	Wet	2.7	0	2.7	Rain Event

¹ Transboundary flow volumes are obtained from self-monitoring reports submitted by USIBWC pursuant to Order No. R9-2021-0001.

² Order No. R9-2021-0001 defines wet weather as the period of time when a storm event produces 0.1 inches or greater within a 24-hour period plus 72 hours after, based on the Goat Canyon Pump Station rain gauge. USIBWC reported that there was precipitation of 1.4 inches as recorded at Marron Valley in December 2022. The rain gauges at Goats Canyon and Smugglers Gulch were not operable and are scheduled for maintenance and repair.

³ Total transboundary flow volume, total volume recovered, and total volume reaching surface waters is an estimate provided by USIBWC.

Table 2: December 2022 - Summary of Transboundary Flows from Mexico¹

Location	Month/Year	Number of Transboundary Flows	Total Volume (Billion Gallons)	Total Volume Recovered (Gallons)	Total Volume Reaching Surface Waters (Billion Gallons)
Tijuana River Main Channel	December 2022	2	4.04	0	4.04
Canyon Collectors	December 2022	0	0	0	0
South Bay International Wastewater Treatment Plant	December 2022	0	0	0	0
All Locations	December 2022	2	4.04	0	4.04

¹ For transboundary flows that start and end in different months, Table 2 includes the transboundary flow in the month the transboundary flow started. For December, there is one flow (12/28/2022) that spanned more than one month.



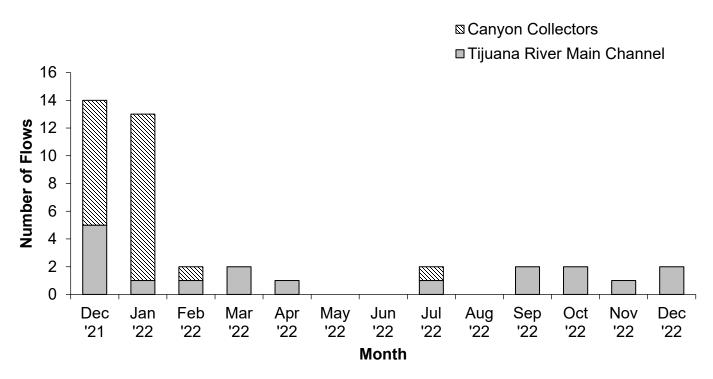


Figure 1: Number of reported transboundary flows per month from December 2021 through December 2022 at the canyon collector systems and the Tijuana River main channel. For transboundary flows that start and end in different months, the figure includes the transboundary flow in month the transboundary flow started.



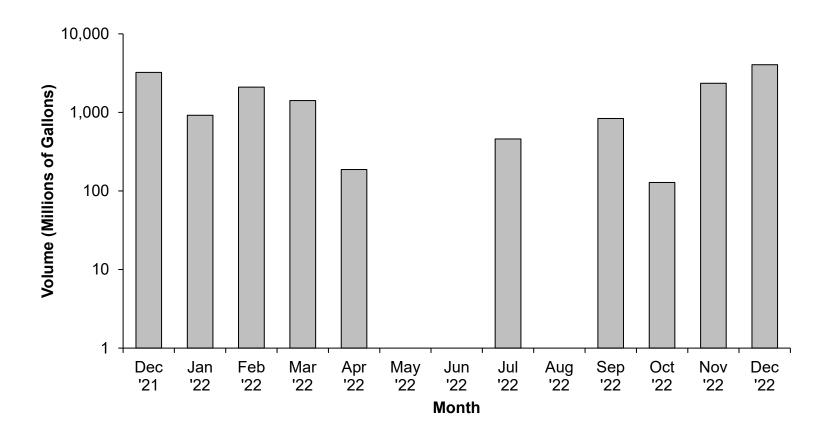


Figure 2: Volume of reported transboundary flows per month from December 2021 through December 2022 at the Tijuana River main channel. For transboundary flows that start and end in different months, the figure includes the total volume of the transboundary flow in the month the transboundary flow started. Note the logarithmic scale on the vertical axis to accommodate the variation in transboundary flow volumes.



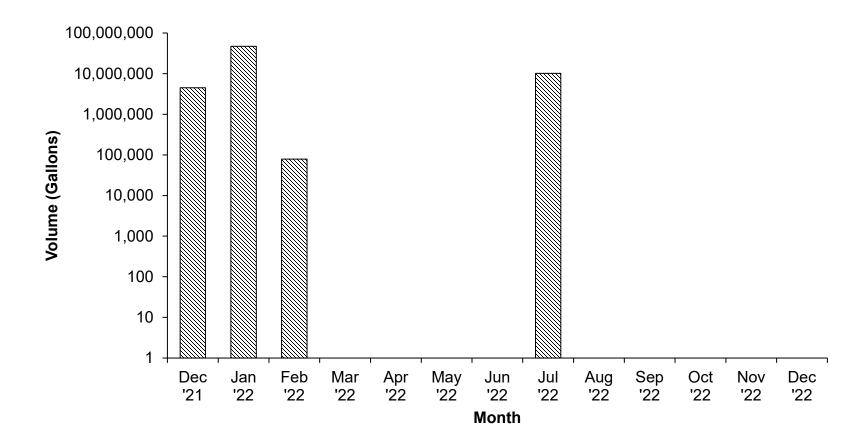


Figure 3: Volume of reported transboundary flows per month from December 2021 through December 2022 at the canyon collector systems. Note the logarithmic scale on the vertical axis to accommodate variation in transboundary flow volumes.