

For immediate release March 21, 2024

#### USIBWC San Diego Citizens Forum Public Meeting in Coronado March 28

The United States Section of the International Boundary and Water Commission (USIBWC) San Diego Citizens Forum board is pleased to announce that it will host an in-person and virtual public meeting on **Thursday, March 28, from 5:30 – 7:30 p.m. PST**.

Citizens Forum Board Member Alberto Pombo, Ph.D., and CEO of Border Communities for a Healthy Environment, will present a study analyzing data compiled over 25 years on pollution origins on the Tijuana River on the Mexico side of the border.

Morgan Rogers, P.E., Area Operations Manager, USIBWC San Diego Field Office, will present an update of Commission activities in the San Diego region. The presentations will include an update on Minute 328 projects, the operational status of the San Diego Wastewater Treatment Plant, an accounting of transboundary flows, and an update on San Diego–Tijuana wastewater infrastructure improvement projects.

The public meeting will be held in person at:

#### Nautilus Room - Coronado Community Center 1845 Strand Way Coronado, CA 92118

The public meeting will also be held virtually: <u>Click here to join the meeting</u>. If possible, it may be helpful for you to test connectivity on your own prior to the meeting by clicking on the "Join" link and ensuring your camera and microphone are functioning. Or join by phone: Call-in number +1 872-240-1286,,66915462# Phone Conference ID: 669 154 62#

For those connecting via phone, the presentations will be available before the start of the meeting. Go to the San Diego Citizens Forum page <u>https://www.ibwc.gov/meetings/category/san-diego/</u>, and look for the links for the 3/28/2024 meeting.

If you would like to speak during the public comment period, please sign up ahead of time by contacting Leslie Grijalva at leslie.grijalva@ibwc.gov or 915-832-4770 by noon on March 26, 2024.

News Media Contact:

Leslie Grijalva Email: <u>leslie.grijalva@ibwc.gov</u> Phone : 915-832-4770

#### SAN DIEGO CITIZENS FORUM

#### Thursday March 28, 2024, 5:30 – 7:30 p.m. PST

#### Nautilus Room - Coronado Community Center 1845 Strand Way Coronado, CA 92118 And via Teams Webinar

#### <u>Agenda</u>

- Welcome and Introductions
- Geographical analysis of water pollution sources along the Tijuana River (2024) Alberto Pombo, Ph.D., CEO of Border Communities for a Healthy Environment
- Update on Minute 328 projects and funding Morgan Rogers, P.E., Area Operations Manager, USIBWC San Diego Field Office
- Update of IBWC and Activities in San Diego Region AOM Rogers
- Public Comment
- Board Discussion
- Suggested Future Agenda Items

If you have a disability that you wish to self-identify confidentially that requires accommodation, please advise us ahead of time. For more information call 915-832-4770 or email <u>leslie.grijalva@ibwc.gov</u>.

#### **Microsoft Teams meeting**

Click here to join the meeting

Meeting ID: 282 290 542 896 Passcode: CnusXW

**Download Teams | Join on the web** 

Or call in (audio only) <u>+1 872-240-1286,66915462#</u> United States, Chicago Phone Conference ID: 669 154 62#



# International Boundary & Water Commission San Diego Field Office Update

Citizens' Forum March 28, 2024

Morgan Rogers Area Operations Manager U.S. Section- IBWC



## AGENDA

- South Bay International Wastewater Treatment Plant
- Transboundary Flows
- San Diego Tijuana Wastewater Infrastructure
- Initiatives
- Minute 328 Projects





## South Bay International Wastewater Treatment Plant (SBIWTP) Current Conditions

- Design/Permit 25 MGD
- NPDES Permit non-compliance with volume & water quality

Monthly Average Effluent Flow (MGD) 2022						
July 2022	23.6					
Aug 2022	<mark>31.4</mark>					
Sept 2022	<mark>33.7</mark>					
Oct 2022	<mark>32.5</mark>					
Nov 2022	<mark>31.5</mark>					
Dec 2022	<mark>28.6</mark>					
Average	<mark>30.2</mark>					

Monthly Average Effluent Flow (MGD) 2023					
Jan 2023	27.5				
Feb 2023	<mark>29.2</mark>				
Mar 2023	24.9				
Apr 2023	21.2				
May 2023	<mark>26.7</mark>				
June 2023	<mark>29.4</mark>				
July 2023	<mark>33.0</mark>				
Aug 2023	<mark>27.5</mark>				
Sept 2023	23.8				
Oct 2023	<mark>25.4</mark>				
Nov 2023	<mark>26.7</mark>				
Dec 2023	<mark>29.3</mark>				
Average	<mark>27.1</mark>				

Monthly Average Effluent Flow (MGD) 2024						
Jan 2024	<mark>26.6</mark>					
Feb 2024	<mark>25.4</mark>					
Mar 2024	23.0					
Average	25.0					



### South Bay International Wastewater Treatment Plant (SBIWTP)

#### **Status of Repairs**

- \$31M USIBWC funds redirected to SBIWTP since 2020
- \$18M obligated FY23 & FY24
- Compliance August 2024





#### South Bay International Wastewater Treatment Plant (SBIWTP)

#### **Status of Repairs**



Tropical Storm Hilary Aug 2023 – Before & During



## South Bay International Wastewater Treatment Plant (SBIWTP)

#### **Status of Repairs**





#### Normal PST

**Overloaded PST** 



# South Bay International Wastewater Treatment Plant (SBIWTP) Status of Repairs



#### **Influent Pumps**

- 3 of 6 pumps operational
- 2 new pumps received
- 4 new pumps ordered



#### **Grit Chambers Cleaning**

- Excessive grit accumulation
- Cleaning in progress
- Estimated completion Apr 2024



#### **Primary Sedimentation Tanks**

- 0 of 5 operational
- #5 online Apr 2024
- #1-#4 Rehab Apr-Sep 2024



# South Bay International Wastewater Treatment Plant (SBIWTP) Status of Repairs



#### **Primary Non-Potable Pumps**

- 2 of 4 pumps operational
- Redundant to secondary
- 4 new pumps on order



#### Secondary Non-Potable Pumps

- 3 of 5 pumps operational
- 5 new pumps on order



#### **Activated Sludge Tanks**

- 7 of 7 operational
- 1 of 2 waste pumps operational
- 5 new waste pumps ordered



# South Bay International Wastewater Treatment Plant (SBIWTP) Status of Repairs



#### Unstabilized Sludge Storage Tanks

- 1 of 2 tanks operational
- 2 of 6 pumps operational
- 1 spare pump on hand
- 6 pumps ordered



#### JB-1 Rehab

- Provides flow control into the SBIWTP
- Commenced Nov 2023
- Completion Feb 2025



#### **Hollister Pump Station**

- 3 of 4 pumps operational
- 2 new pumps on hand



### South Bay International Wastewater Treatment Plant (SBIWTP)

#### **SBIWTP Expansion**

#### Procurement

- Design-Build Contractor Procurement
  - Phase I Review Statements of Qualifications, in progress
  - Phase II Review Cost & Technical Proposals
- Contract Award Late Summer 2024, commence project design and construction
- Construction Complete Estimate contract award plus 5 years

### Funding

- USMCA \$300M Allocated
- USIBWC FY24 \$156M Allocated, annual budget
- Emergency Leg. \$310M Pending
- Expansion Cost \$600M +/- 30% (50 MGD + 75 MGD peak)





## **Transboundary Flows**

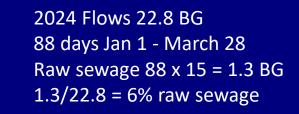
Tijuana River

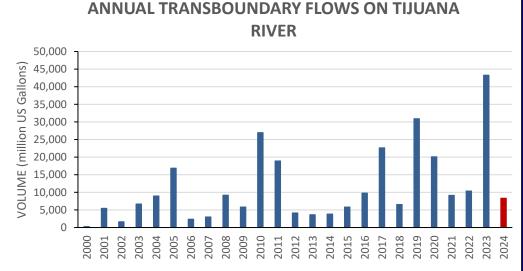
2024 flows > 22.8 billion gallons

Today 80 MGD

Stormwater vs Raw Sewage Flow

- Total dry weather flows 30 MGD
  - Treated flow 10 MGD
  - Potable/groundwater flow 5 MGD
  - Raw sewage flow 15 MGD







## **Transboundary Flows**

### Canyon Collectors – Smugglers Gulch



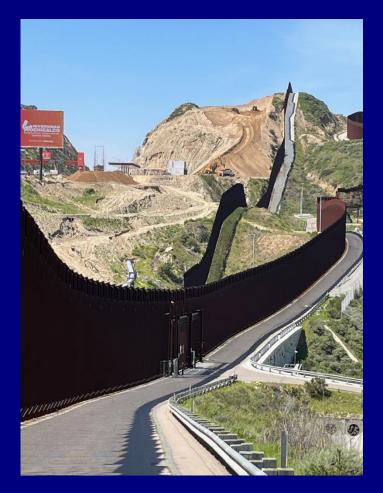




## Transboundary Flows

### Canyon Collectors – Goats Canyon

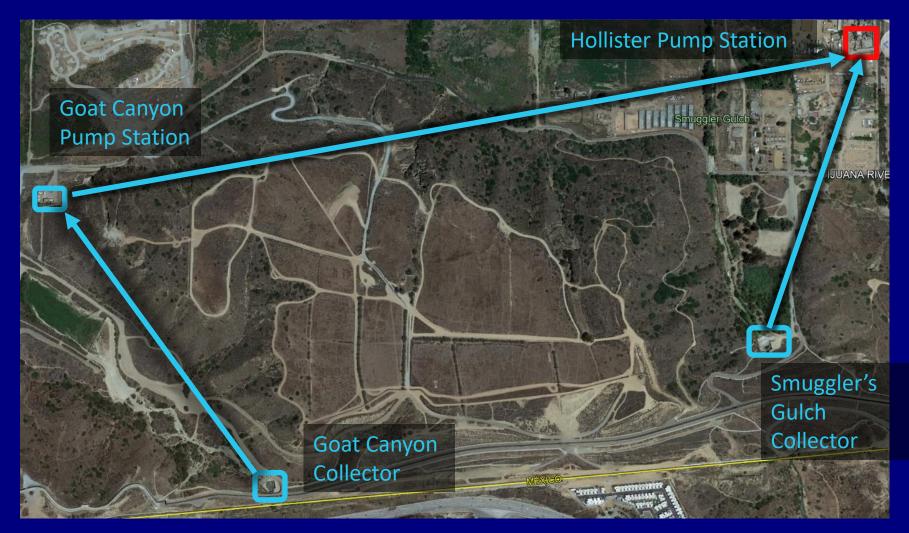






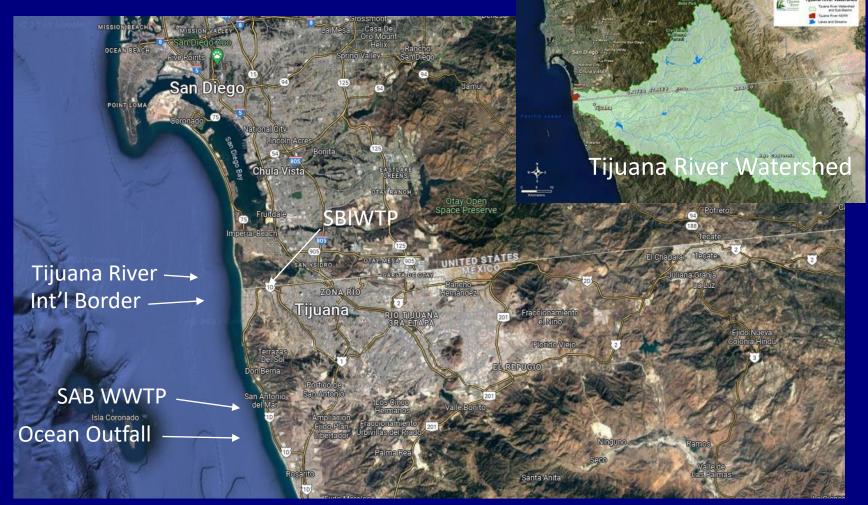
## Transboundary Flows

#### Canyon Collectors & Pump Stations





# San Diego - Tijuana Infrastructure Region



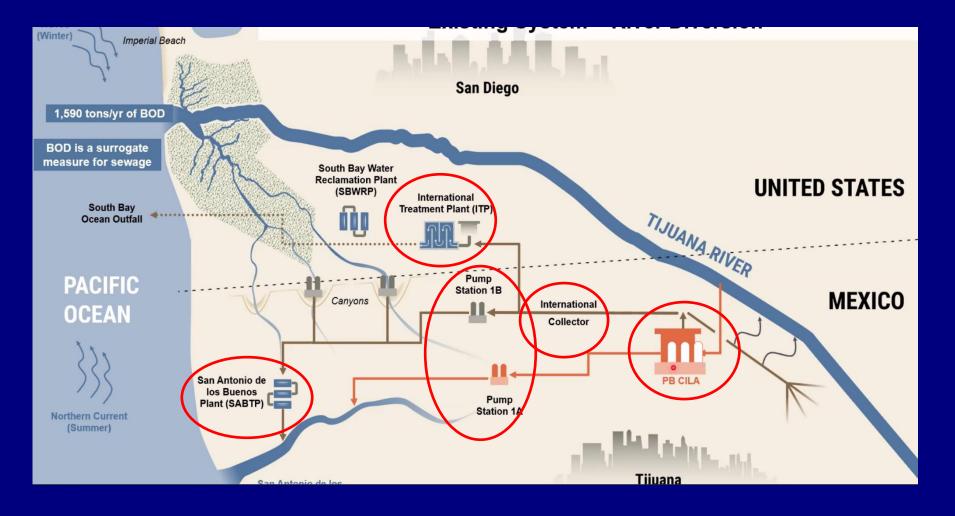


## San Diego - Tijuana Infrastructure Wastewater System



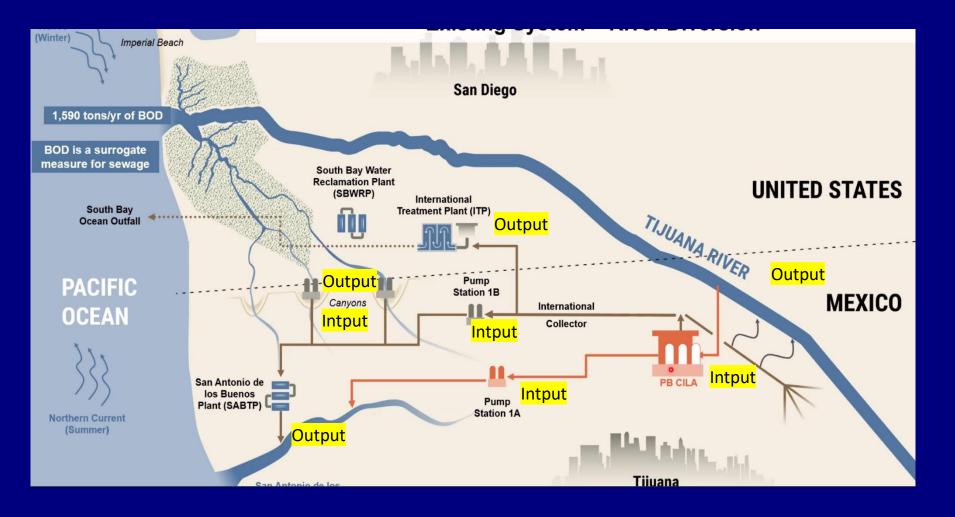


## San Diego - Tijuana Infrastructure Status and Conditions



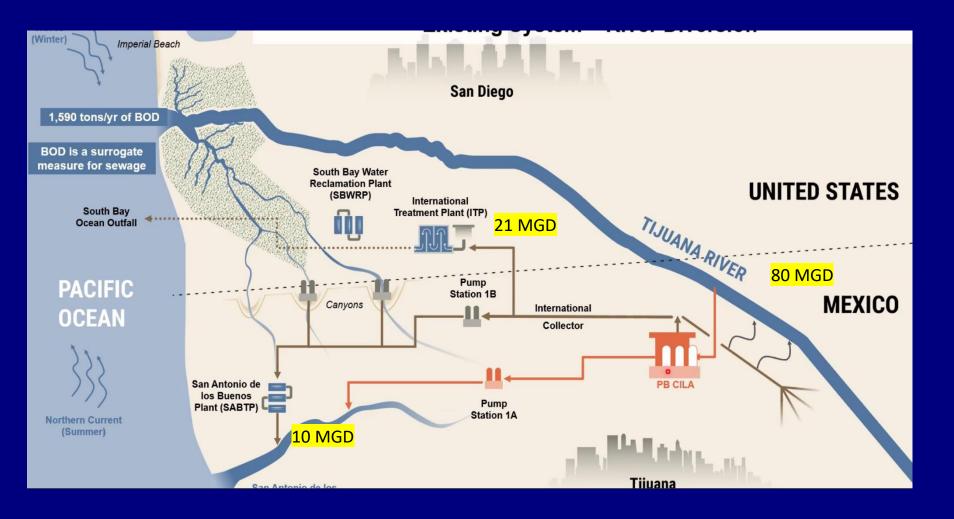


## Initiatives Mass Balance Plan – Real Time



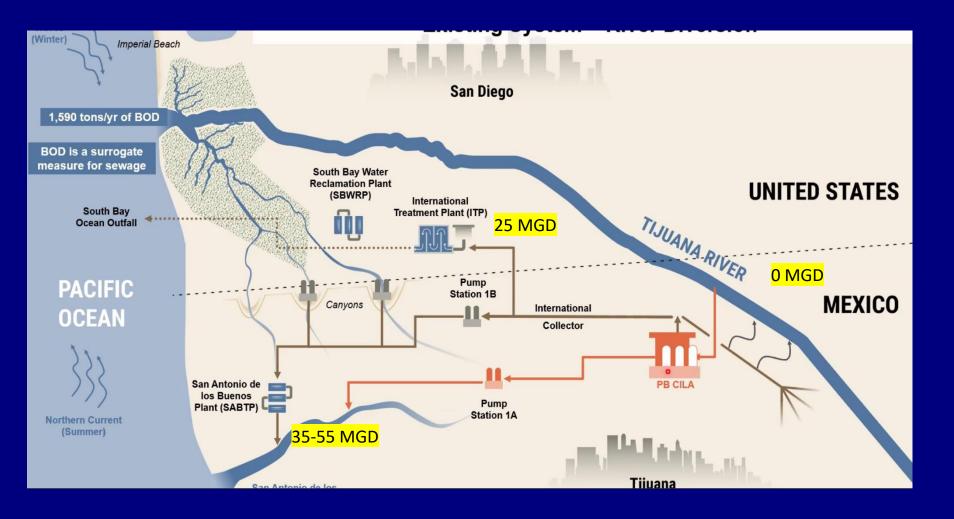


## Initiatives Mass Balance Plan – March 28, 2024





## Initiatives Mass Balance Plan – March 28, 2024





# Initiatives Sod Farm Cleanup



#### Before...





## Initiatives Sod Farm Cleanup



In progress...





## **Minute 328 Projects**



- United States \$330M ٠
- Mexico \$144M (30% funded) ۲

A	В	С		D		E F		G H			1				
	Last Updated: Oct 2023		SOI/Min 328 Commitment			:		Secured	Funding / Act	unding / Actual Costs					
#	Project	Secured?	US Government share		t Mexican Government Total share		Government		Total		US Governmen share		Mexican Government share	Total	
	Located in the US		millio	n USD	mil	lion USD	mil	lion USD	millio	on USD	million USD	mil	lion USD		
L	Expansion of SBIWTP to 50 mgd	Y	\$	300.0	\$		\$	300.0	\$	300.0	\$ -	\$	300.0		
	Located in the Mexico														
la	Rehabilitation of PBCILA	Y	\$	•	\$	4.0	\$	4.0	\$	-	\$ 4.7	\$	4.7		
b	Rehabilitation of PB1	Y	\$	8.0	\$	4.0	\$	12.0	\$	13.4	\$ 3.7	\$	17.1		
2	Oriente collector	Y	\$	0.9	\$	0.9	\$	1.8	\$	1.0	\$ 1.2	\$	2.2		
1	Rehabilitation of the International Collector, phase I	Y	\$	4.0	\$	4.0	\$	8.0	\$	-	\$ 9.0	\$	9.0		
	Rehabilitation of the International Collector, phase II	Y	\$	4.0	\$	4.0 \$ 8.0 ?		????		?	?				
	Rehabilitation of the parallel gravity line	N	\$		\$	10.3	\$	10.3				\$	-		
	Rehabilitation of the Antiguo Force Main	Ν	\$		\$	9.5	\$	9.5				\$	-		
;	Enclose the open channel from PB1 to SAB	Ν	\$	-	\$	12.8	\$	12.8				\$	-		
1	Rehabilitation of the Insurgentes Collector	N	\$		\$	17.9	\$	17.9				\$	-		
1	Rehabilitation of Poniente Interceptor	Ν	\$	-	\$	1.4	\$	1.4				\$	-		
1	Rehabilitation of the Collector Carranza	N	\$		\$	2.9	\$	2.9				\$	-		
0	Rehabilitation of the Oriente Interceptor	Ν	\$		\$	15.5	\$	15.5				\$	-		
1	Phase 1 of reuse of La Morita and Arturo Herrera effluent	N	\$	10.0	\$	10.0	\$	20.0		_		\$			
2	Lift station and force main from Sainz Canyon to Arturo Herrera	Ν	\$	-	\$	2.2	\$	2.2				\$			
3	Rehabilitation of PB Laureles 1	Y	\$	-	\$	2.0	\$	2.0	\$	-	\$ 2.0	\$	2.0		
	Rehabilitation of PB Matadero and Laureles 2	Ν	\$	-	\$	5.6	\$	5.6				\$	-		
4	New 18 mgd SAB	Y	\$	-	\$	33.3	\$	33.3			\$ 33.0	\$	33.0		
5	Tijuana River Gates	N	\$	1.9	\$	1.9	\$	3.8				\$			
6	Backup power supply for PB1	Ν	\$	1.5	\$	1.5	\$	3.0				\$			
Commitment secured				316.9	\$	45.5	\$	369.1							
	Commitment Remaining		\$	13.4	\$	98.2	\$	104.9			and the second second				
	Total		\$	330.3	\$	143.7	\$	474.0	\$	314.4	\$ 53.6	\$	368.0		
					Ś	6.66									



## **Minute 328 Projects**

- United States
  - Expand/Rehab SBIWTP

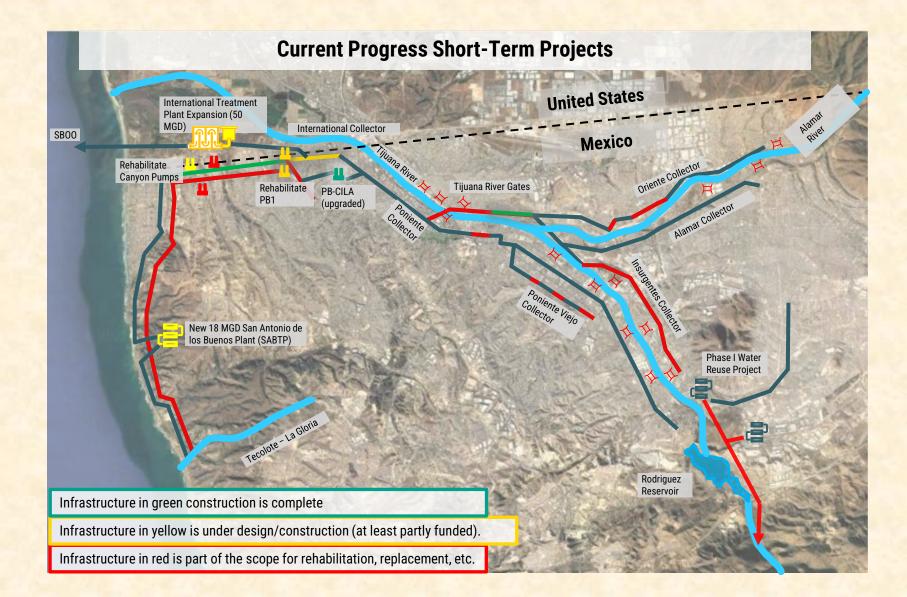
#### Mexico

- Rehabilitate PB1 (PB1A & PB1B)
- Rehabilitate International Collector
- Reuse Arturo Herrera & La Morita treated wastewater
- Reconstruct SAB wastewater treatment plant to 18 MGD capacity







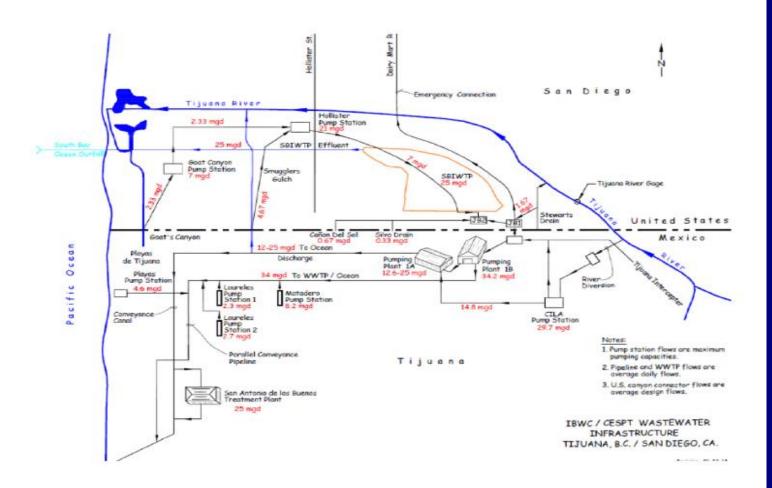




For additional information, contact: Morgan Rogers Area Operations Manager U.S. Section- IBWC

> (619) 662-7601 Morgan.Rogers@ibwc.gov







GEOGRAPHICAL ANALYSIS OF WATER POLLUTION SOURCES ALONG THE TIJUANA RIVER (2024) The pollution origins of the Tijuana River are intricate and multifaceted. The data presented here is a compilation of public sources and firsthand field observations collected by the author over a period exceeding 25 years. Utilizing geographic information systems aids in comprehending the wastewater contamination, which is classified into four primary groups with an additional subcategory for deeper analysis: unsewered, municipally sewered, rural, and Industrial-Real Estate. Furthermore, an illicit thrash dumping site map is provided. Proposed solutions for addressing each category are presented.

# ABSTRACT

THE TIJUANA-TECATE REGION HAS A COMPLEX MIXTURE OF SEWERED AND NON-SEWERED ÁREAS. BASED ON CONAGUA AND INEGI INFORMATION THESE ARE THE MOST IMPORTANT SOURCES OF WASTE WATER

- 1) Non-sewered homes
- 2) Properly sewered áreas
- 3) Rural

#### 4) Industrial

a)Properly industrial (Industrial parks)b) Real State development (decentralized wastewater treatment)

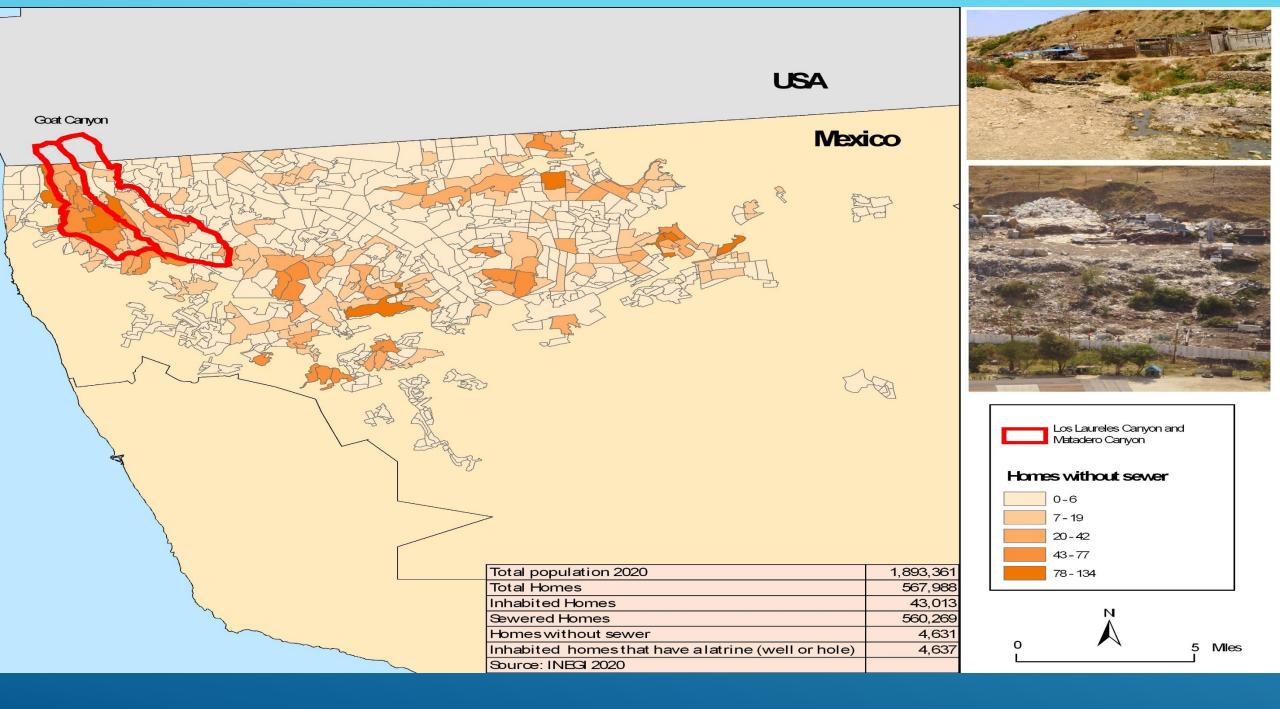


	m³/day	MGD	m³/day Not including S.A.M.	MGD
total CESPT	312,682.00	82.6	217,641.60	57.5
total Agriculture	10,925.00	2.9	10,925.00	2.9
total Industrial-Real Estate:	2,823,911.09	746	2,823,911.09	746
total Industrial	4,115.60	1.1	4,115.60	1.1
Total : a +b+c+d	3,147,518.09	831.5	3,052,477.69	806.4

# IRREGULAR SETTLEMENTS (NO SEWER CONNECTION)



www.bchesd.org



# El Florido Presa Abelardo L. Rodríguez

Z>

900 m

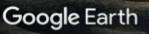
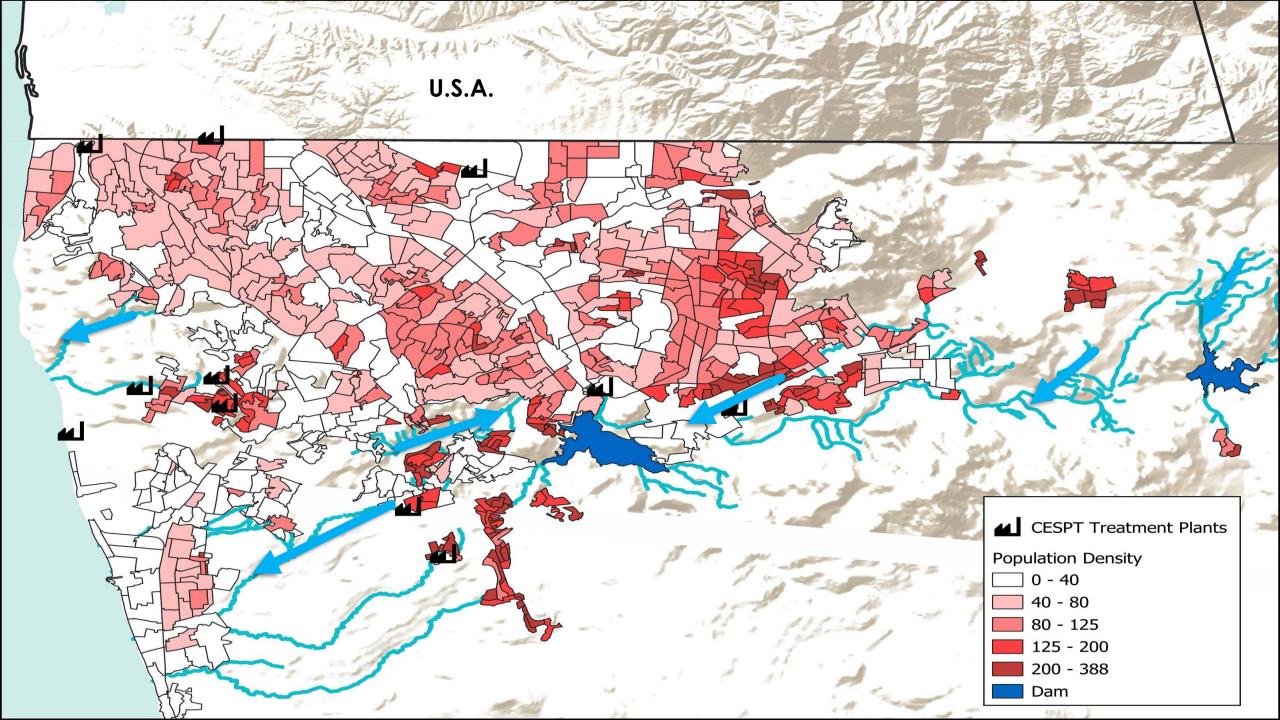


Image Landsat / Copernicus Data LDEO-Columbia, NSF, NOAA Data SIO, NOAA, U.S. Navy, NGA, GEBCO

CESPT INFRASTRUCTURE VOL: 312,682.00 M<sup>3</sup>/DAY : 82.6 MGD

B.C.H.E BORDER COMMUNITIES FOR A HEALTHY ENVIRONMENT



#### Zona del Florido plantas CESPT

Villas del Campo

El Niño

Arturo Herrera

Colinas de la presa • PTAR El Florido • La Morita

Hacienda Los Venados Delicias ALL AND THE

San Pedro Norte

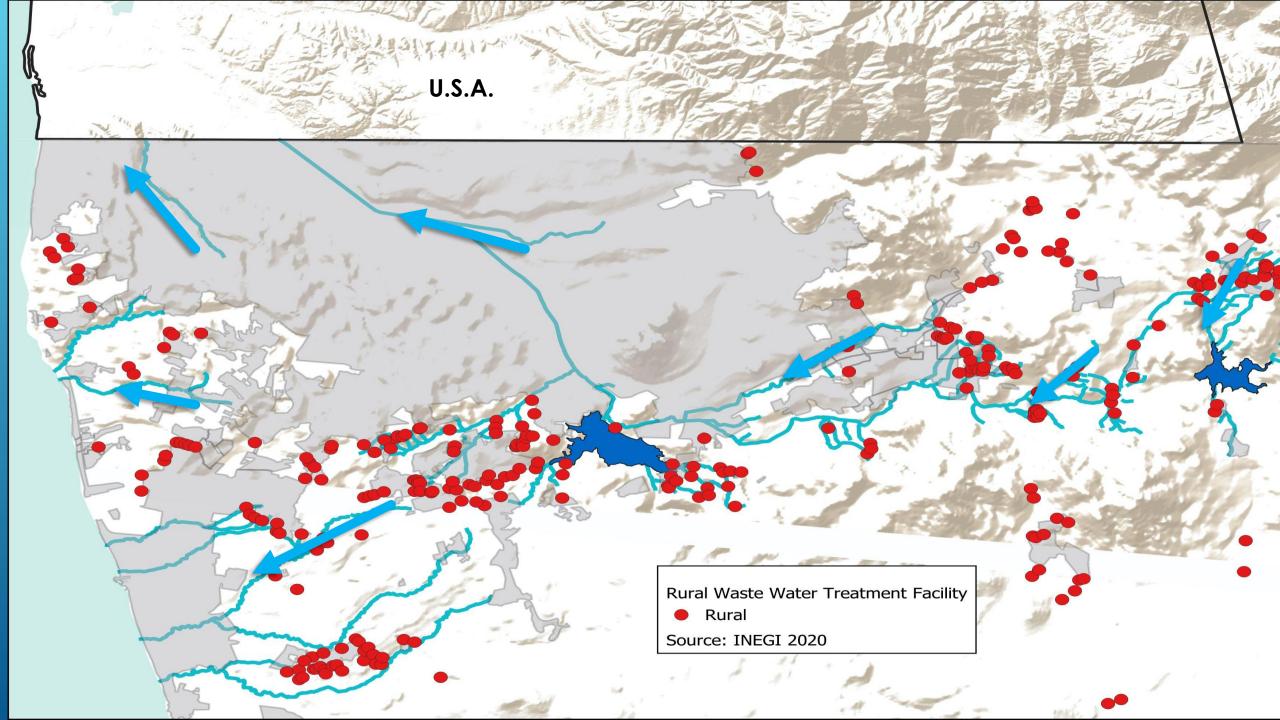
Valle de San Pedro

San Pedro Sur

os Valles

RURAL WASTE WATER DISCHARGE PERMITS  $N = 687 \text{ VOL} = 10,925.00 \text{ M}^3/\text{DAY}$  = 2.9 MGD(SOURCE: INEGI + REPDA CONAGUA)





# Rural wastewater discharge permits

#### Google Earth

ta SIO, NOAA, U.S. Navy, NGA, GEBCO

### Presa Abelardo L. Rodríguez.

1 km

Google Earth

dairy farms

w

AT AT LOR

the the

10 km



Data SIO, NOAA, U.S. Navy, NGA, GEBCO



## PARTIALLY (I)REGULAR DEVELOPMENTS (LEGAL LIMBO)

B.C.H.E.

### Asentamientos irregulares CORETT 2010

#### Tabla 19. Asentamientos en proceso de regularización, 2008.

Organismo o Entidad		General		Área Urbana	
		Superficie (Has)	Porcentaje (%)	Superficie (Has)	Porcentaje (%)
Federal	CORETT	1,130.0140	9.99	1,130.0140	10.58
Estatal	INDIVI (CORETTE)	4,601.4960	40.69	4,105.4700	38.42
	INDIVI (INETT)	2,795.2970	24.72	2,782.6080	26.04
	PRODUTSA	2,466.0700	21.81	2,351.1350	22.00
Municipal	FIMT	315.9260	2.79	315.9250	2.96
	Total	11,308.8030	100	10,685.1520	100

Fuente: IMPLAN con información del INDIVI 2008<sup>124</sup>.

Asentamientos
CORETT
CORETTE
FIADER
FIDEICOMISO SAM
INETT
PRODUTSA
TERCERA ETAPA PRODUTSA

Sec.

INDUSTRIAL/REAL ESTATE DEVELOPMENTS  $N = 98 \text{ VOL} = 2,823,911.09 \text{ M}^3/\text{DAY}$ = 746 MGD

(SOURCE: CONAGUA)



### Industrial - Real State Development

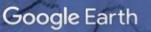
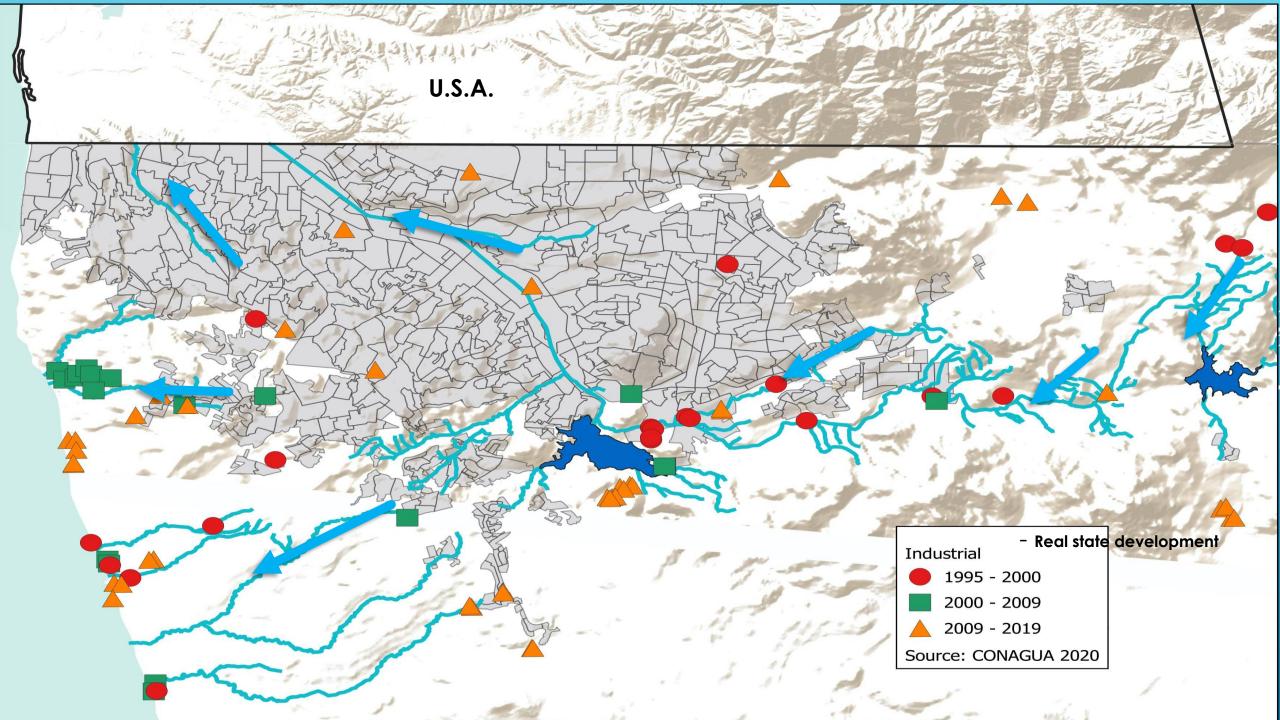


Image © 2023 Airbus Image Landsat / Copernicus Data SIO, NOAA, U.S. Navy, NGA, GEBCO



### Presa Abelardo L. Rodríguez Industrial Real State

N

Presa El Carrizo Industrial real state

800 m

### Urbi Quinta del Cedro Industrial Real State

CE?'s

Google Earth

Data SIO, NOAA, U.S. Navy, NGA, GEECO

E o b b h b

CUI CONNECTION

A A

## TRASH IN THE RIVER BASIN THAT POLLUTES THE TIJUANA RIVER

Clandestine trash dumpster sites Source Implan 2019

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**Goat Canyon** 

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The solution to each source of pollution requires different approaches



 Main problem: San Antonio de los Buenos treatment plant and sewer lines ruptures
IBWC and CILA are solving it

### CESPT PROBLEM

B.C.H.E. Border communities for a Healthy environment

#### Fine evaluation of each facility

- Precise evaluation of the volumes
- Characterization of the discharges
- Propose alternative technologies
- Economic analysis of the proposed solutions

RURAL WASTEWATER DISCHARGES N = 687 VOL =  $10,925.00 \text{ M}^3/\text{DAY}$ = 2.9 MGD



- Locate and evaluate the present administrative condition each plant
- Produce an accurate assessment of the volumes
- Produce a detailed report of the state of conservation of the facilities
- Propose a technical solution for each plant
- Evaluate the costs of the proposed solution(s)
- Estimate the maintenance and operational costs
- Design of an economic strategy to long term sustainability

DECENTRALIZED WASTEWATER PLANTS N = 98 VOL =  $2,823,911.09 \text{ M}^3/\text{DAY}$ = 746 MGD





## POPULATION NOT CONNECTED TO SEWER LINES (8,269 HOMES)



- Sanitary Sequence based on autoconstruction consisting of:
  - Improvements to the existing latrines (VIP latrines)
    - Pit covered by concrete slab to avoid overflow in rain events
    - Ventilation to prevent proliferation of flies
  - Transformation of existing cesspools into real anaerobic digesters (onsite primary treatment)
  - Small bore condominial sewer lines to collect the outflow of digesters
  - Decentralized wastewater plant to provide secondary treatment to the primary treated effluents

SOLUTION PROPOSED BY B.C.H.E. TO ÁREAS WITHOUT SEWER CONNECTION



Expense Categories	Grant Dollars Requested
Personnel / Personal	\$24,920.00
Materials / Materiales	\$3,420.00
Communications and publications/ Comunicaciones y publicaciones	\$5,000.00
Transportation / Transporte	\$1,240.00
Equipment / Equipo	\$5,610.00
Other / Otros	\$1,000.00
Indirect Costs / Costos Indirectos	\$6,000.00
	\$47,190.00

Number of workshops	2Personal	Workshops
	Persons	Quantity 1 workshop
		2 2 \$ 2,720.00
		3 2 \$ 2,340.00
	Material need for works	nops
	Canpoy	\$ 1,800.00
	Table	\$ 110.00
	Chairs	\$ 600.00
	Projector	\$ 700.00
	Water	\$ 60.00
	Snacks	\$ 40.00
	Coffee	\$ 60.00
	Camera	\$ 3,100.00
	Plastic bins	\$ 350.00
	Pipes	\$ 200.00
	Tool kit	\$ 500.00
	Materials	\$ 500.00
		\$ 8,020.00
	Transportation 1 worksho	op \$ 620.00
	Full tank for workshop	120
	Srpinter rental	500

### THANK YOU FOR YOUR PATIENCE