

## **South Bay International Wastewater Treatment Plant Rehabilitation and Expansion**

**100 Days to 10 Million gallons per day of additional capacity**



# INCREMENTAL INCREASE OF 10 MGD

- Work awarded:
  - ✓ 10 MGD incremental increase: April 2025
  - ✓ Incremental increase temporary equipment: May 2025
  - ✓ **100-day** acceleration notice to proceed on May 20, 2025



Plant repairs and expansion are underway



# INCREMENTAL INCREASE OF 10 MGD

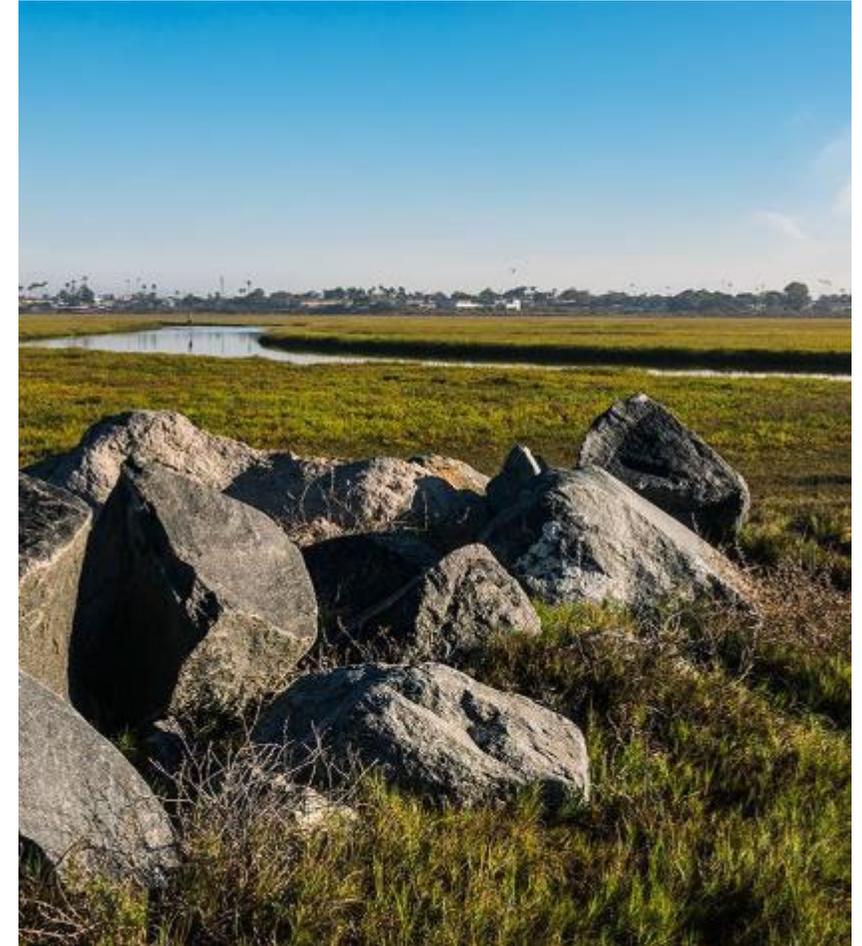
**July 8, 2025 – Day 49**

- Contractor continuing with 100-day incremental 10MGD increase.
  - ✓ PCL confirmed sourced units will perform as required for the incremental expansion. Issued purchase orders – on track
  - ✓ PCL onsite in June to mobilize and start initial demo
    - Anticipate delivery of equipment in July and early August
    - Anticipate equipment testing in August
    - Anticipate to be ready August 28, 2025
      - ❖ Parallel tracks
        - Permit Amendment
        - Plant Operation Modification



# OUTCOMES IN 100 DAYS

- **Existing plant remains operational at 25 MGD**
- Additional infrastructure increases capacity to 35 MGD
- Creates blended secondary and advanced primary for discharge through ocean outfall
- Decrease dry-weather sewage flows in the Tijuana River
- Improvement in air quality and water quality
- Environmental improvement
- Improvement in H<sub>2</sub>S levels





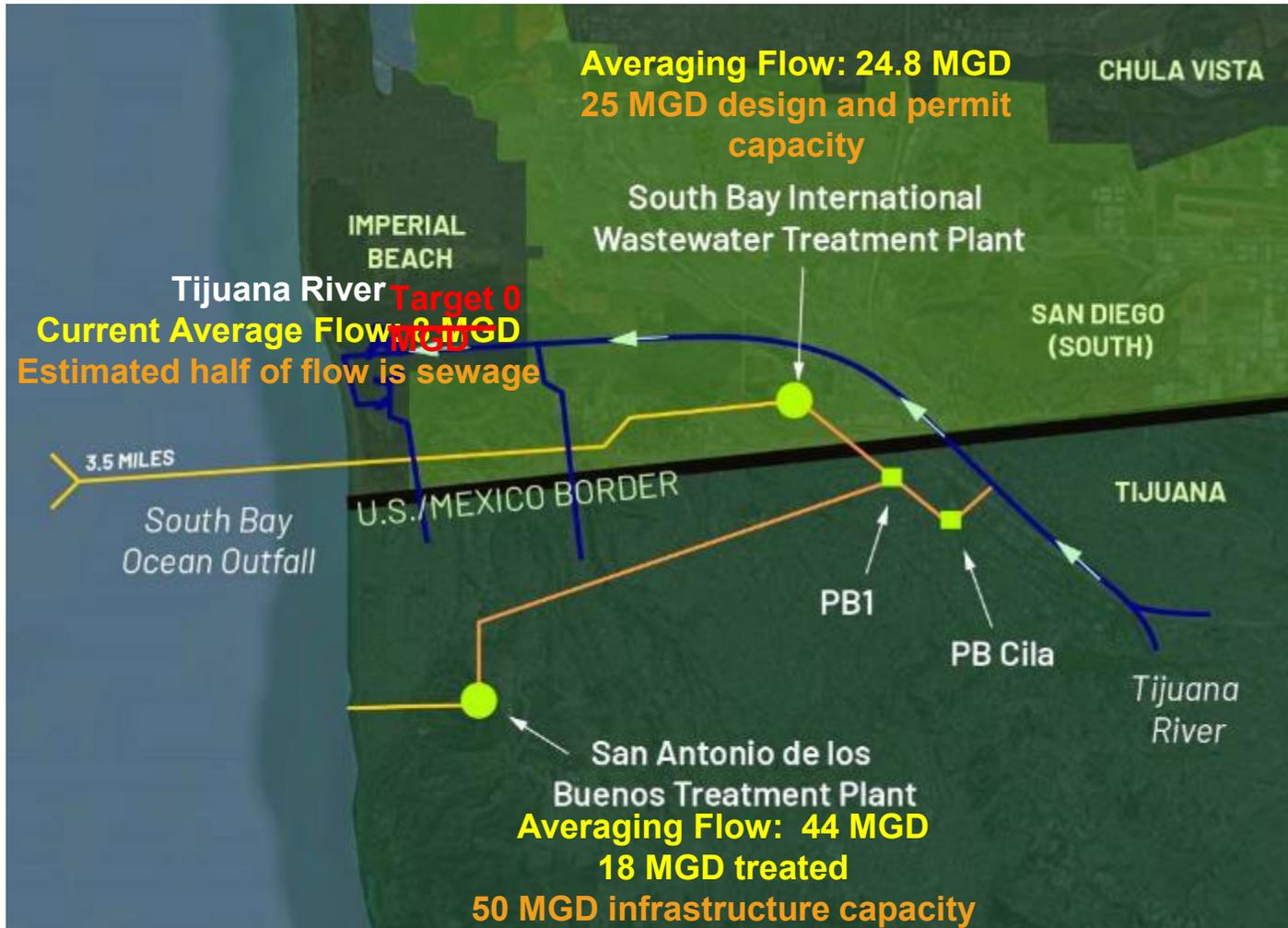
# SAN DIEGO-TIJUANA SEWAGE INFRASTRUCTURE

## San Diego-Tijuana Sewage Infrastructure Capacity

SBIWTP: **25** MGD

SAB: **50** MGD  
 18 MGD treated  
 32 untreated

Total Capacity: **75** MGD



## San Diego-Tijuana Sewage Infrastructure Current Average Flows

SBIWTP: **25** MGD

SAB: **44** MGD  
 18 MGD treated  
 (based on capacity)  
**26 MGD untreated**

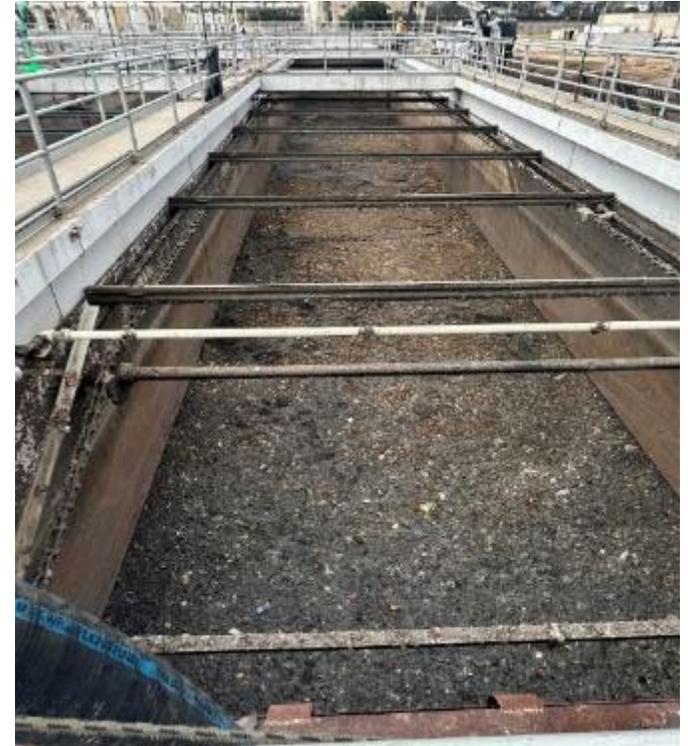
**Target 0 MGD**  
 Tijuana River: **10 MGD**  
 Approx. half sewage  
 (Was 10-12 MGD)

Total Flow: **77** MGD  
 Was 85 MGD



# SBIWTP REHABILITATION AND EXPANSION

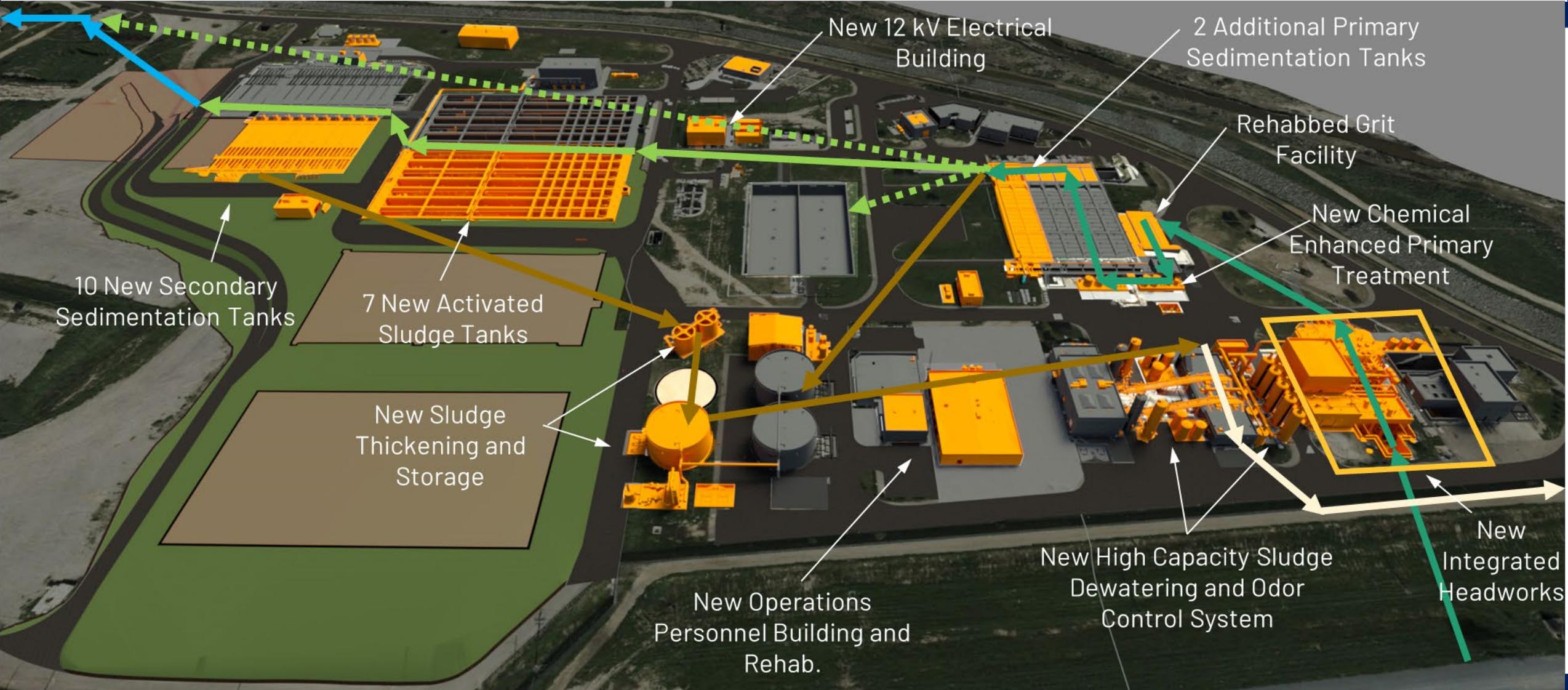
- ✓ Grit removal system prevents unnecessary wear and damage to mechanical equipment and accumulation of grit in pipelines, channels, and process tanks.
- ✓ Early Works Packages with award dates:
  - Grit facility: March 2025
  - Updating aging parts: August 2025
  - Concrete Repairs on critical structures: August 2025
  - Site Preparation: February 2026
  - Long Lead Equipment: June 2026.



PST 5 Sediment Buildup after 2 months in operation 6/2024



# SBIWTP REHABILITATION AND EXPANSION OVERVIEW





# MINUTE 328 PROJECTS





# COMMUNICATION WITH MEXICO

## PREVENTION OF WASTEWATER FLOW IN THE TIJUANA RIVER/IMPACT TO SBIWTP

During Recent work in Mexico, the USIBWC and EPA collaboratively worked to require bypass pumping and closer collaboration with US entities.

Results: Mexico installed bypass system for international collector work phases 1 and 2

- Phase 1: Prevented untreated wastewater flows from being diverted into the Tijuana River, approximately 25 million gallons a day (MGD).
- Phase 2: Mobile pumps and hoses were used to divert about 20 million gallons a day (MGD) of wastewater from Mexican pump station PB-1 directly to the South Bay International Wastewater Treatment Plant. Cost savings of over \$600,000 to USIBWC. (cost would have been incurred for zero flow shutdown to plant and impact to biological process which may have resulted in noncompliance of permit).
- Pump Station 1 Shutdown due to electrical work: Stopped Mexico from proceeding with shutdown on minimal notice that would have sent 57 MGD of flow to the plant for more than 3 hours, possibly impacting SBIWTP.



# US-MEXICO COOPERATION

- April 21, 2025 meeting in San Diego
  - ✓ EPA Administrator Lee Zeldin
  - ✓ Environmental Secretary (SEMARNAT) Alicia Bárcena
  - ✓ Focus on cross-border solutions to address border sanitation problem
  - ✓ Reflects the commitment of Presidents Trump and Sheinbaum to address the problem
  - ✓ Accelerated commitments under Minute 328

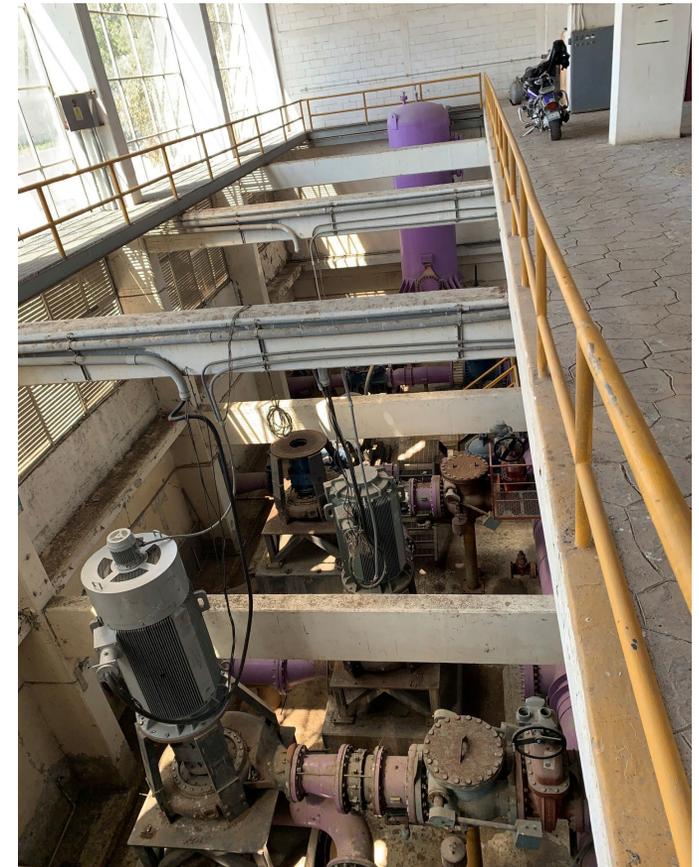


**SEMARNAT**  
SECRETARÍA DEL MEDIO AMBIENTE Y  
RECURSOS NATURALES



# INFRASTRUCTURE FAILURES IN MEXICO

- Inadequate maintenance a recurring concern
- Frequent pipeline failures and leaks due to aged infrastructure
- Failure to maintain San Antonio de los Buenos plant resulted in sewage discharge to ocean for a decade
  - >Became inoperable due to lack of O & M
  - >Highlights importance of oversight
- Frequent pump failures lead to transboundary flows (old pumps, electrical problems, clogged with sediment, etc.)
- Highway contractors ruptured a major pipeline in summer 2022, resulting in more flow in the river and at SBIWTP

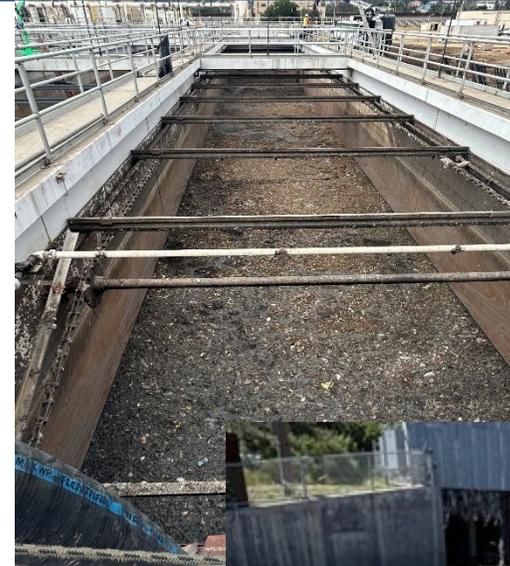


***Pumping Plant 1 in Tijuana***



# USIBWC OPERATIONS PLAN BUDGET

- USIBWC is an engineer led agency
- Projects are proposed by engineers and scientists
- Long term operations of facilities requires robust Salary & Expenses (S&E) Operations and Maintenance (O&M)
- Received increases in Construction funding
- Need additional resources to continue operations and maintenance of infrastructure
- Aging infrastructure and several years of a lean budget has led to extreme deferred maintenance



PST 5 Sediment Buildup  
after 2 months in operation



Smuggler's Gulch Canyon Collector March 2024



# EXPANSION, MINUTE 328 UPDATES

## Check out the new IBWC dashboard to get updates on the Incremental Increase and Minute 328 projects:



On May 20, 2025, the U.S. Section of the International Boundary and Water Commission and the Mexican Section of the International Boundary and Water Commission announced the start of an incremental expansion of the South Bay International Wastewater Treatment Plant's capacity to take two years, this critical increase is now on track for completion in just 100 days. This strategic project is located in the Tijuana River, which has been primarily responsible for the beach closures.

### STATUS OF PROGRESSIVE DESIGN BUILD PROJECT

● Task Ongoing    ● Task Complete

Task	Start	In Progress	Completed	Demolition	Deliverables
Project Design/Modeling	✓	✓	✓	✓	✓
Regional Water Quality Control Board (RWQCB) Permit	✓	✓	✓	✓	✓

Status of Statement of Intent and Minute 328 Projects

**Proposed Works #1A - SBWTP**

rehabilitation of the existing plant, the expanded plant will treat to secondary standards applicable in the United States.

**Project Purpose:** The South Bay International Wastewater Treatment Plant treats wastewater to secondary levels and discharges effluent out the South Bay Ocean Outfall. This project will provide treatment for an additional 25 mgd of wastewater.

**Project Status:** Under Construction

**Project Status Details:**

- Project Responsible Agency: USMCA
- Project Funding: USMCA

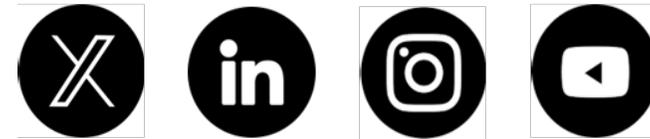




# QUESTIONS AND DISCUSSION



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