



# **INTERNATIONAL BOUNDARY AND WATER COMMISSION**

**UNITED STATES SECTION**

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## **Tijuana Water Quality Workshop**

**Imperial Beach, CA**

**March 27, 2024**

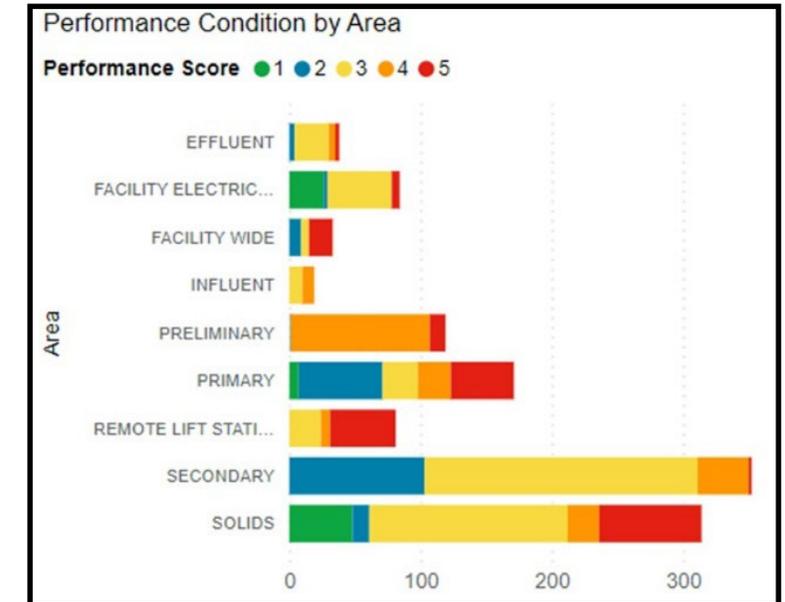
**Dr. Maria-Elena Giner, P.E.**

**Commissioner**



# IMMEDIATE ACTIVITIES

- Stakeholder outreach
- Junction Box1 –Funded & implemented temporary fix
- Condition Assessment of Plant: Scoping, contracting and conducted detailed assessment
- Interagency agreement with EPA
- Minute 320 – Funded & contracted secretariat
- Minute 328 – Negotiated Mexico’s Commitment of \$144M for projects
- Addressed most of the Internal Audit Findings
- Added staff to the office



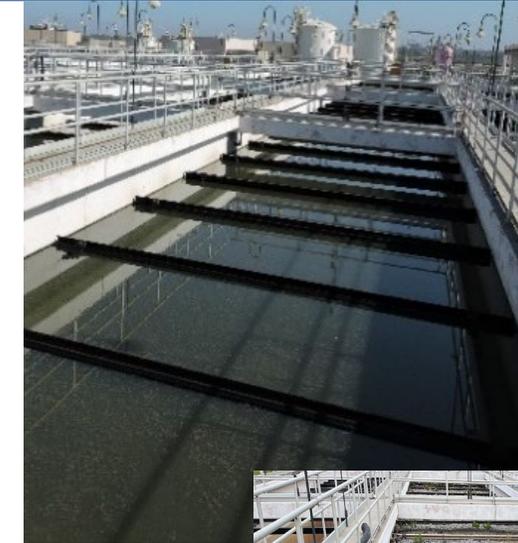
*Equipment failures, conditions, and age are impacting performance.  
(Assets in 4-5 need immediate attention)*

**430 assets/36% need immediate attention**



# ONGOING ACTIVITIES

- South Bay Repairs
  - ✓ Redirected \$30M from budget
  - ✓ Repairs of headworks and primary sedimentation tanks
  - ✓ Replaced pumps for Hollister
  - ✓ Weekly meetings with San Diego Regional Water Quality Control Board
  - ✓ Compliance August 2024
- Minute 320 –
  - ✓ Tangible projects have been identified
  - ✓ Involvement of philanthropic and other funding organizations
- Binational cooperation
  - ✓ Minute 328 oversight regular meetings
  - ✓ High-level binational meetings
  - ✓ Funding of ½ O&M of PB CILA
  - ✓ Initiation of Monthly Inspections



Before



Now

Primary Sedimentation  
Tank in San Diego



# ONGOING ACTIVITIES (CONT'D)

- **South Bay Expansion and Rehabilitation**
  - ✓ Completed preliminary design and procurement documents
  - ✓ Project under procurement as a progressive design build
  - ✓ Secured additional FY2024 funding for rehabilitation
  - ✓ Secured contributed authority
  - ✓ Assigned 2 full time staff
  - ✓ Negotiating an agreement with US Army Corp of Engineers for Technical Support
- **Tijuana River Cleanup**
  - ✓ Deployed equipment and staff from two field offices
  - ✓ Depending on rain approximately 3 weeks of continuous man hours.
  - ✓ Appreciate IB's cooperation





# FUTURE ACTIVITIES

## Funded

- Asset Management: Ongoing
  - ✓ Preventive maintenance program for South Bay
- Rehabilitation and Portion of Expansion. Additional funding need of ≈\$200M
- Tijuana River Diversion of Transboundary Flows: Scoping and Feasibility Study
- Water Quality Monitoring Program in Tijuana River and canyons

## Unfunded

- Additional staffing: Unfunded
- On-site Equipment: Unfunded
- Tijuana River Levee project: Unfunded \$100M



# REHABILITATION AND EXPANSION

## Facility Assessment/Pre-design:

- Start: Oct 2022, End: November 2023

## Procurement phase:

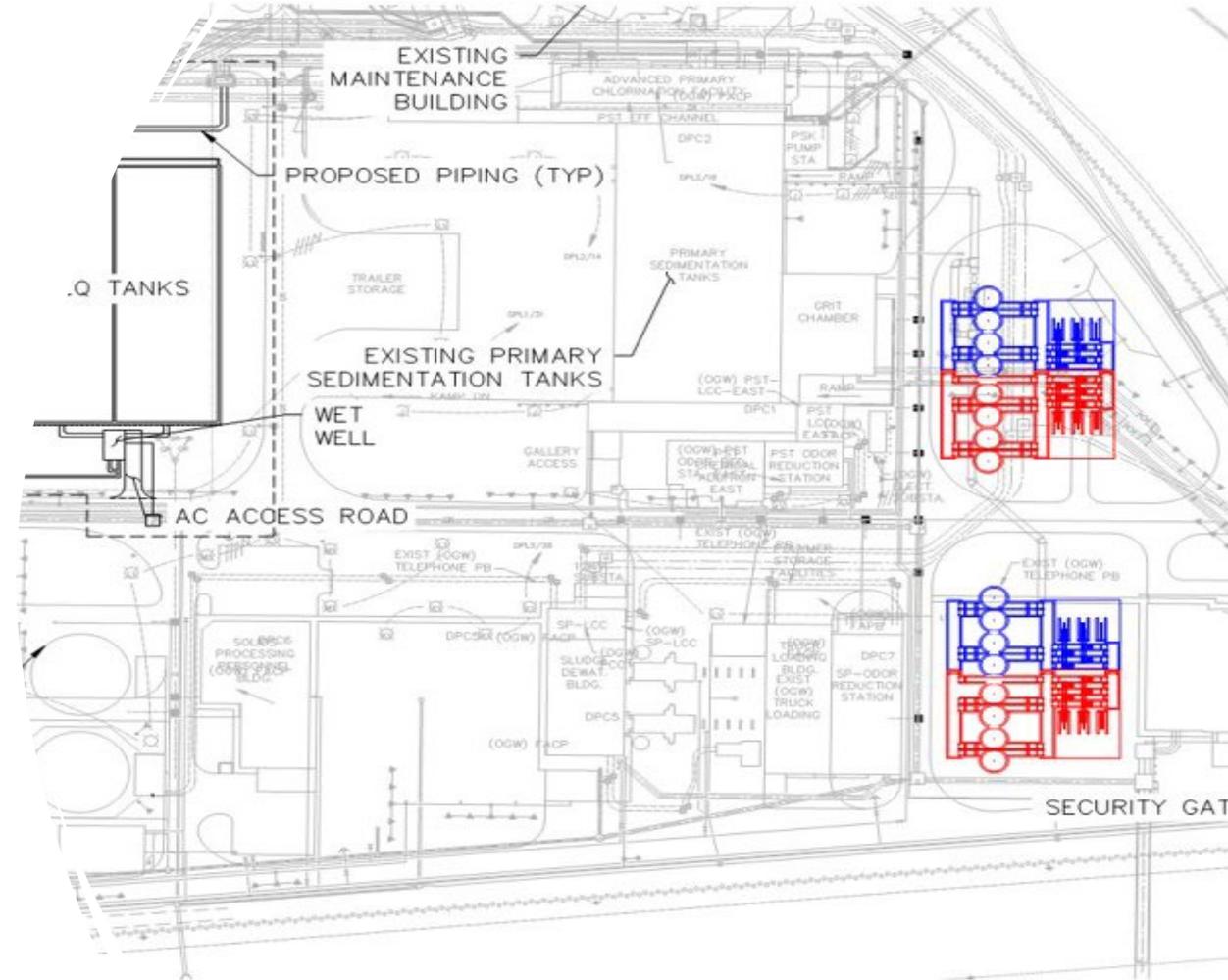
- Start: December 8, 2023.
- Proposals received February 8, 2024
- Award: Summer 2024

## Design/Construction:

- Expected in Summer 2024.

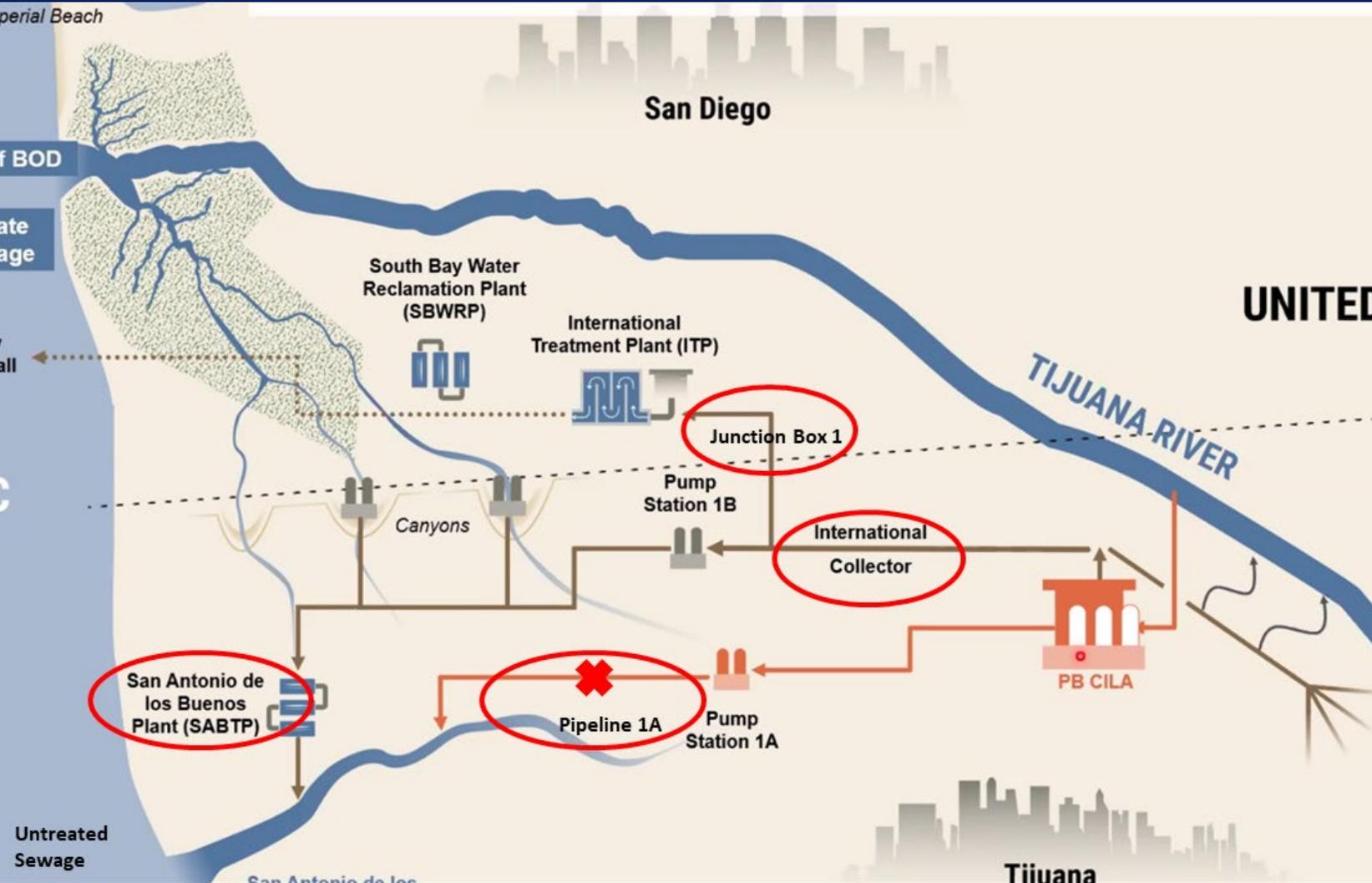
## Project under procurement as a design build:

- Final design, rehabilitation, expansion to 50 mgd, & 25 mgd peaking factor.
- Estimated cost \$600M +/- 30%.
- Phasing in Procurement Process
  - Base Project: Full design, rehabilitation & 45-mgd expansion
  - Phase 1: Expansion to target capacity of 50 mgd
  - Phase 2: Peaking factor up to 75 mgd





# WHAT IS THE PROBLEM?



## Infrastructure Weak Points

### Issues:

- JB1- in operable
- Weak International Collector
- Pipeline 1A collapse
- SAB wastewater treatment plant is inoperable

### Operational Limitations:

- Cannot throttle back flow, leads to excess flows
- Limited capacity in conveyance to SAB
- U.S. ITP Plant: Limited capacity and treatment
- Mexico SAB Plant: No wastewater treatment

### Impact:

- Increased dry weather flows in Tijuana River to San Diego beaches
- Untreated flows to Tijuana beaches that seasonally flow north reach San Diego beaches



# CAUTIOUS OPTIMISM

- PB CILA Improvements were completed in late 2021.
- PB1 A was repaired in December 2023. Some testing completed.

