
USMCA Tijuana River Watershed

Public Information Meeting

Date & Time: August 6, 2021, 11:00 a.m. - 1:00 p.m. (2:00 p.m. - 4:00 p.m. Eastern)

Goal: Provide an update on the technical process and share results from the alternative analysis process

Link: <https://www.zoomgov.com/j/1601243800?pwd=L3VlbnFsaklySDNaekpGWEJwbU04Zz09>

Passcode: 127507

Time	Agenda Topic	Lead
11:00 -11:10am	Welcome and Overview	Andrew Sawyers, Director of the EPA Office of Wastewater Management
11:10 am-12:00 pm	Technical Analysis Updates and Results <ul style="list-style-type: none">• Project feasibility analysis• Review alternatives analysis process• Results• Three alternatives optimization	Ami Cobb, EPA Office of Wastewater Management
12:00-12:20 pm	Next Steps & Upcoming Milestones	Tom Konner, Environmental Engineer, EPA Region 9
12:20-12:25 pm	North American Development Bank Updates	Salvador López, Chief Environmental Officer, NADB
12:25-12:55 pm	Question and Answer Session	Jake Strickler, EPA's Conflict Prevention and Resolution Center
12:55-1:00 pm	Closing Remarks & Adjourn	Andrew Sawyers, Director of the EPA Office of Wastewater Management



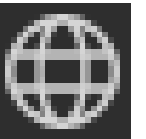
USMCA Tijuana River Watershed

Public Information Meeting

Virtual Meeting: August 6th, 2021

Interpretation on Computers

Interpretación en computadoras

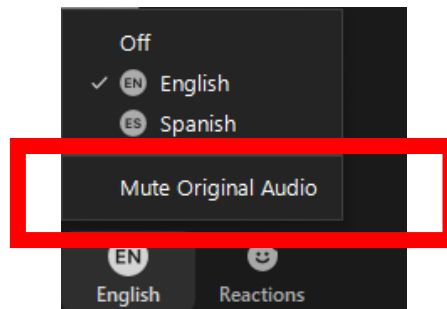
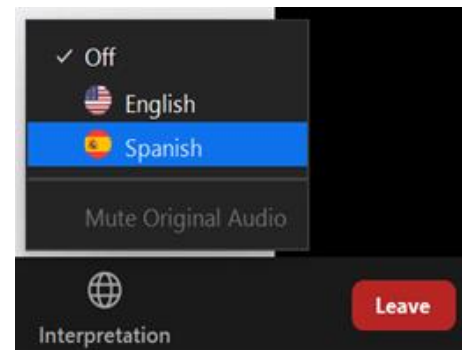


1. In your meeting controls (bottom bar), click Interpretation.

En los controles de la reunión (barra inferior), haga clic en “Interpretation” o Interpretación

2. Click “English”

Seleccione “Spanish” (español)



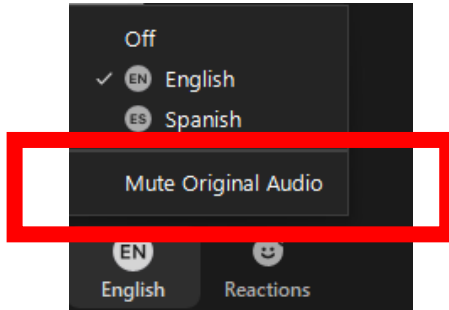
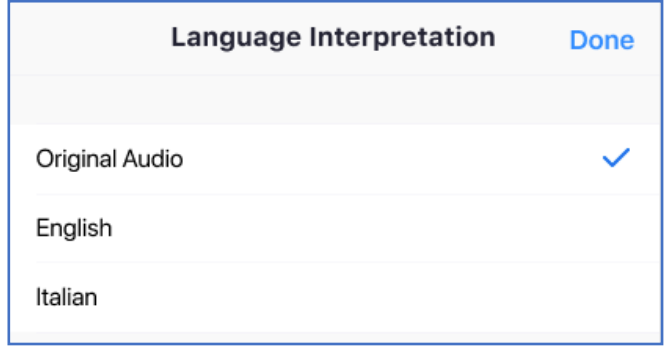
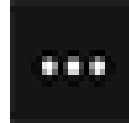
Mute Original Audio if you would not like to hear the (Spanish) original audio while it is being interpreted into English

Seleccione mute “Original Audio” para no escuchar de fondo el idioma original

Interpretation on Cell Phones/ Tablets

Interpretación en celular, tableta (móvil)

- 1. In your meeting controls, tap ... **More**
En los controles de la reunion, haga clic en ... **“More” (Más)**
- 2. Tap **Language Interpretation**. Tap **English**
Seleccione **“Language Interpretation”** / Seleccione **Spanish**



Mute Original Audio if you would not like to hear the (Spanish) original audio while it is being interpreted into English
Seleccione mute “Original Audio” para no escuchar de fondo el idioma original

Submitting a Question

1. At the bottom of your screen, click on the “Q&A” to type in your question.
2. If possible, please include the slide number.



Today's Agenda

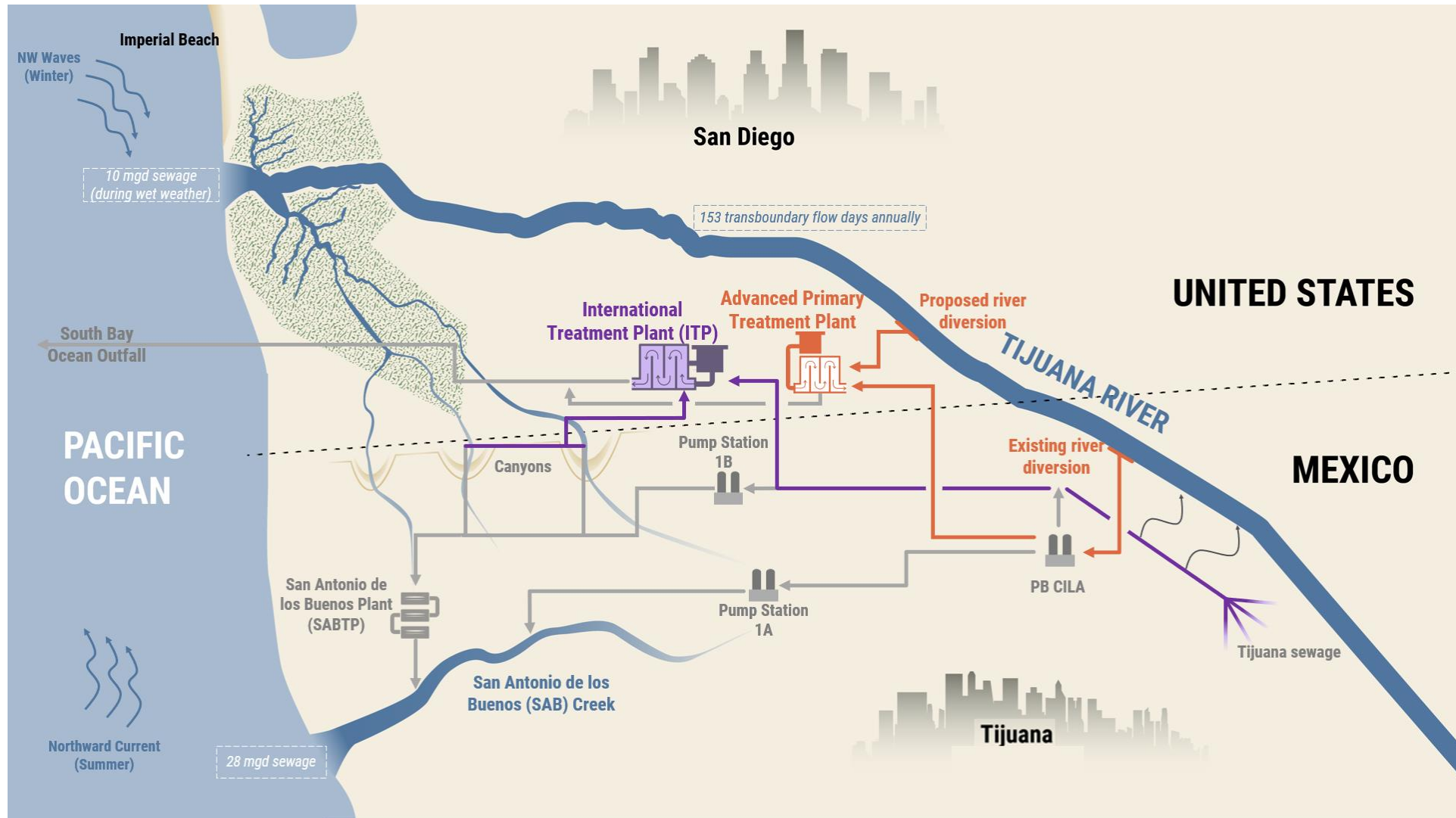
- **Technical Analysis Results and Updates**
 - Review alternatives analysis process
 - Results
 - Three Alternatives for Optimization
- **Next Steps & Upcoming Milestones**
- **North American Development Bank Updates**
- **Question and Answer Session**

Welcome

Technical Analysis Results

Ami Cobb, Environmental Engineer
EPA Headquarters

Two Approaches in US: Treat Contaminated Flow Before or After it Reaches the River/Coast



Alternatives Analysis

- Individual infrastructure projects were grouped into alternatives based on:
 - Ability to reduce sewage in the river and/or ocean
 - Capital cost
 - Some Border Water Infrastructure Program (BWIP) funds can be used for Mexico-side solutions
 - Most of USMCA funding being used for US-side solutions
- Contractors and EPA created 12 alternatives for scoring with the Augmented Alternatives Analysis (AAA)
 - Evaluation tool used to score and rank alternatives using a systematic and replicable process
 - Operationalized evaluation criteria with information gathered from EPECG members and public meeting discussions.

USMCA Project Investment Goals

**Public Health &
Community
Livability**

**Stewardship of
Public Resources**

**Ecological
Protection**

**System
Resiliency**

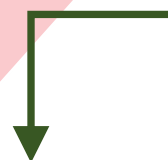
ALT ¹	P1	P2	P3	P4	P5	P6	P7	P8	Score	Cost Effectiveness ²	% Reduction (higher is better)		US Capital Contribution (\$M) ³
											Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	
I	60 mgd	conveyance to APTP	35 mgd	6 mgd	5 mgd	✓	10 mgd	10 mgd	287	15	76%	95%	566
H			25 mgd	6 mgd	5 mgd	✓	10 mgd		264	28	54%	74%	336
F-2		35 mgd	20 mgd		5 mgd	✓	10 mgd		242	22	64%	66%	363
E	35 mgd	conveyance to APTP	15 mgd		5 mgd	✓			220	22	56%	63%	334
E-2	35 mgd	conveyance to APTP	15 mgd		5 mgd	✓	10 mgd		220	21	64%	63%	344
F		35 mgd	20 mgd			✓	10 mgd		219	20	60%	66%	356
G		35 mgd	15 mgd			✓		10 mgd	204	17	53%	94%	343
B	100 mgd	conveyance to APTP			5 mgd	✓	10 mgd	10 mgd	200	20	83%	50%	258
A	163 mgd	conveyance to APTP				✓	10 mgd		190	21	88%	34%	264
D	60 mgd		15 mgd			✓			188	17	70%	40%	350
C	100 mgd		5 mgd			✓			179	19	82%	25%	332
B-2	100 mgd	conveyance to APTP			5 mgd	✓	10 mgd		163	21	83%	17%	225

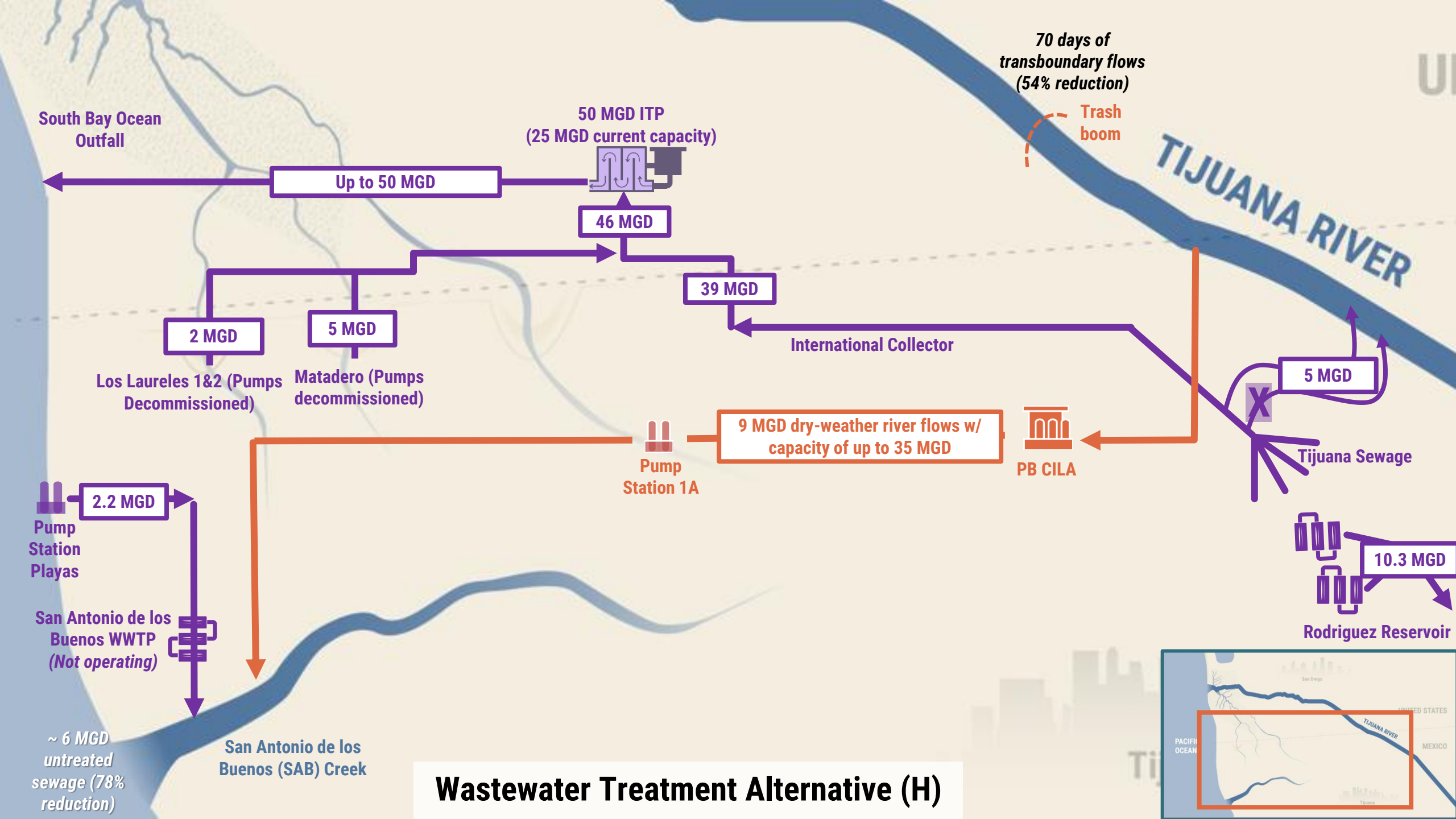
¹ All alternatives contain canyon regrading

² Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost

³ US contribution to US and MX side projects. Cost estate includes 1.5 contingency factor.

Ranking Based on Score





Wastewater Treatment Alternative (H)

South Bay Ocean Outfall

Up to 50 MGD

50 MGD ITP
(25 MGD current capacity)

46 MGD

39 MGD

2 MGD

5 MGD

Los Laureles 1&2 (Pumps Decommissioned)
Matadero (Pumps decommissioned)

International Collector

9 MGD dry-weather river flows w/
capacity of up to 35 MGD

Pump Station 1A

PB CILA

5 MGD

Tijuana Sewage

2.2 MGD

Pump Station Playas

San Antonio de los Buenos WWTP
(Not operating)

~ 6 MGD untreated sewage (78% reduction)

San Antonio de los Buenos (SAB) Creek

10.3 MGD

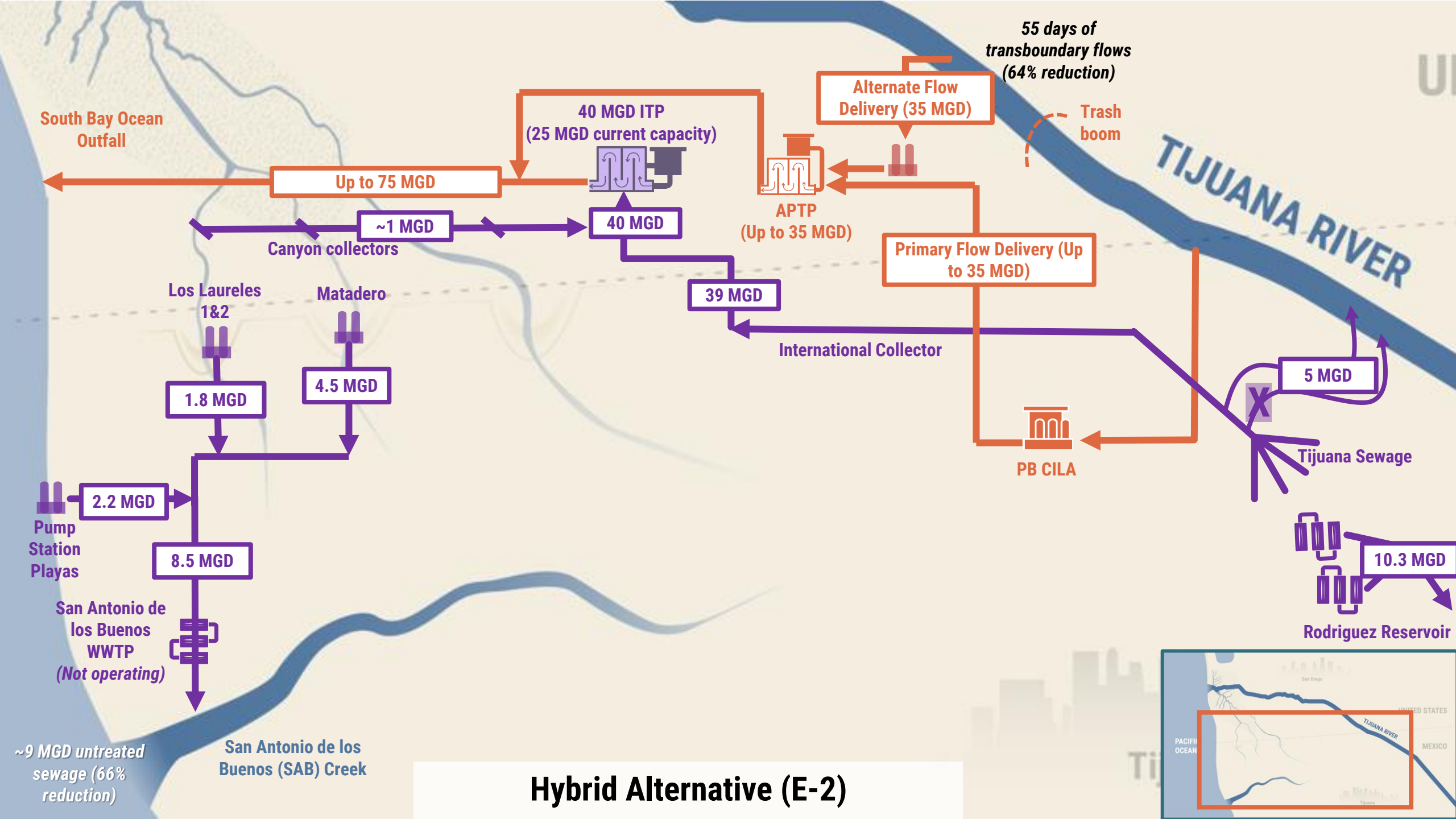
Rodriguez Reservoir

70 days of transboundary flows (54% reduction)

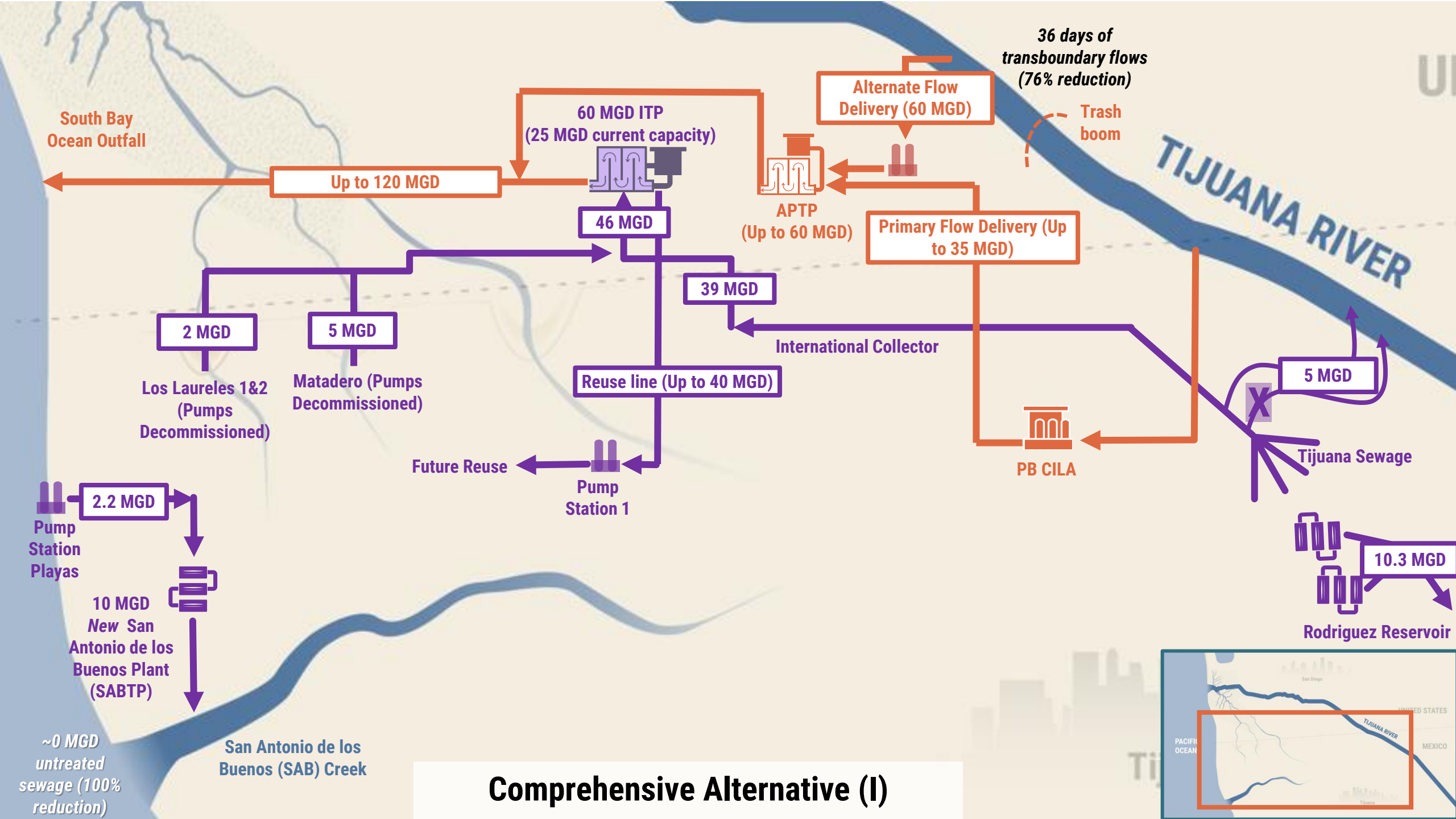
Trash boom

TIJUANA RIVER





Hybrid Alternative (E-2)



36 days of transboundary flows (76% reduction)

Trash boom

TIJUANA RIVER

South Bay Ocean Outfall

Up to 120 MGD

60 MGD ITP (25 MGD current capacity)

Alternate Flow Delivery (60 MGD)

APTP (Up to 60 MGD)

Primary Flow Delivery (Up to 35 MGD)

46 MGD

39 MGD

2 MGD

5 MGD

Los Laureles 1&2 (Pumps Decommissioned)

Matadero (Pumps Decommissioned)

Reuse line (Up to 40 MGD)

International Collector

PB CILA

5 MGD

Tijuana Sewage

Future Reuse

Pump Station 1

2.2 MGD

Pump Station Playas

10 MGD New San Antonio de los Buenos Plant (SABTP)

~0 MGD untreated sewage (100% reduction)

San Antonio de los Buenos (SAB) Creek

10.3 MGD

Rodriguez Reservoir

Comprehensive Alternative (I)



Three Alternatives for Optimization

ALT ¹									Score	Cost Effectiveness ²	% Reduction (higher is better)		US Contribution	
	P1	P2	P3	P4	P5	P6	P7	P8			Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	Capital (\$M) ³	Annual O&M (\$M)
Comprehensive Alternative I	60 mgd (\$119M)	conveyance to APTP (\$6M)	35 mgd (\$372M)	6 mgd (\$16M)	5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)	10 mgd (\$33M)	287	15	76%	95%	566	22
Wastewater Treatment Alternative H			25 mgd (\$299M)	6 mgd (\$16M)	5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)		264	28	54%	74%	336	12
Hybrid Alternative E-2	35 mgd (\$90M)	conveyance to APTP (\$6M)	15 mgd (\$227M)		5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)		220	21	64%	63%	344	14

Ranking Based on Score

¹ All alternatives contain canyon regrading

² Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost

³ US contribution to US and MX side projects. Cost estimates include 1.5 contingency factor.

Questions?

Next Steps & Upcoming Milestones

Tom Konner, Environmental Engineer
EPA Region 9

USMCA Process: Overview



Technical Analysis



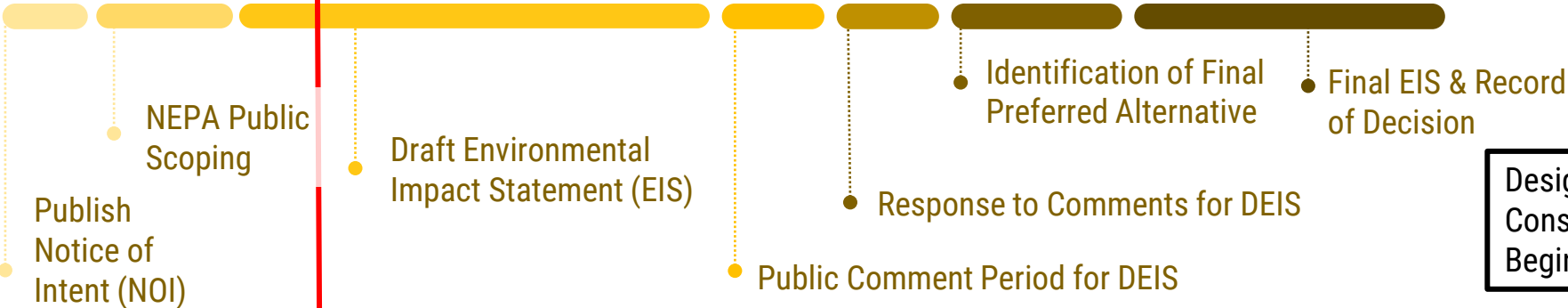
Environmental Information Document (EID)



Collaboration with Resource Agencies



National Environmental Policy Act (NEPA) Process



Design & Construction Begin 2023

Upcoming Milestones

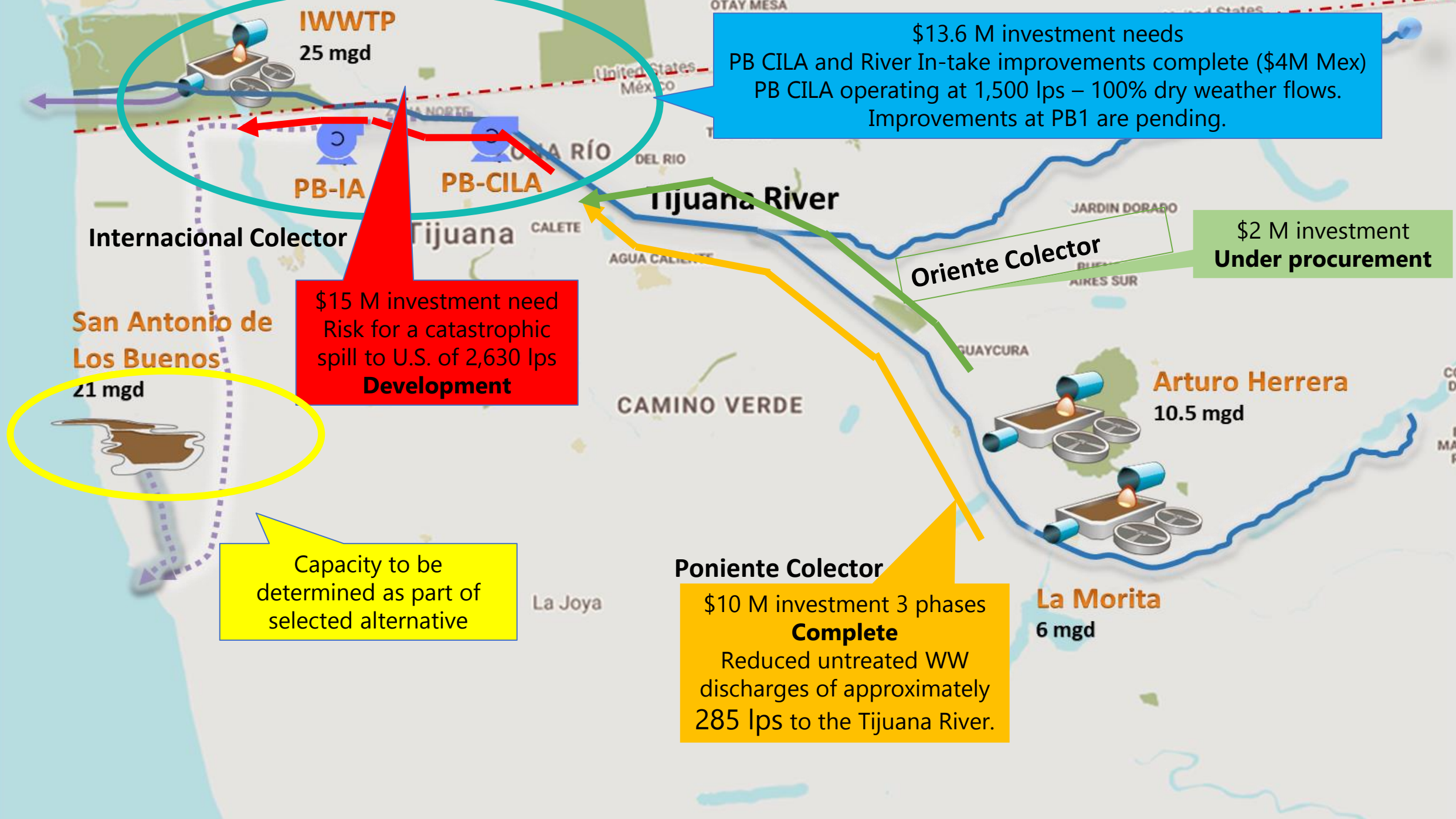
- Near-Term
 - Alternatives analysis and report
 - Initiate NEPA EIS (Summer/Fall 2021)
 - Negotiations with Mexico

- Long-Term
 - Agreement(s) with Mexico
 - Identify Project Sponsor
 - Likely IBWC but currently cannot accept funds or initiate a project until legislative fix
 - Operation and Maintenance
 - USMCA-funded project(s) will need O&M appropriations for long-term operation



Questions?

Updates from NADB



\$13.6 M investment needs
 PB CILA and River In-take improvements complete (\$4M Mex)
 PB CILA operating at 1,500 lps – 100% dry weather flows.
 Improvements at PB1 are pending.

\$2 M investment
Under procurement

\$15 M investment need
 Risk for a catastrophic spill to U.S. of 2,630 lps
Development

Capacity to be determined as part of selected alternative

Poniente Colector
 \$10 M investment 3 phases
Complete
 Reduced untreated WW discharges of approximately 285 lps to the Tijuana River.

BC Tijuana Collector Poniente 1A

Project Summary (Amounts in Dollars US)

Sponsor:	CESPT
Estimated Cost:	\$ 6.46 m
BEIF Funding:	\$ 2.42 m
Funding Partners:	\$ 2.02 CESPT and \$ 2.02 CONAGUA
Benefitted Population:	87,000
Results:	23,506 improved connections, eliminated risk for WW discharges - 6 mgd capacity



- Status:**
- ✓ Certified on **May 30, 2019**
 - ✓ Construction included 1,928 meters of pipelines installation and the Canon del Sainz-Los Reyes connection, 43 meters to Collector Poniente (80 lps)
 - ✓ BEIF disbursed to date \$2.18M – Mexican funds disbursed \$3.60 M
 - ✓ Project complete June 2021.
 - ✓ 6.0 mgd of untreated WW eliminated out of the Tijuana River

BC Tijuana Collector Poniente 1A



BC Tijuana Collector Poniente 1A

BEFORE: 2 mgd discharge to TJ river



DECEMBER 2020

AFTER: 0 mgd discharge to TJ river

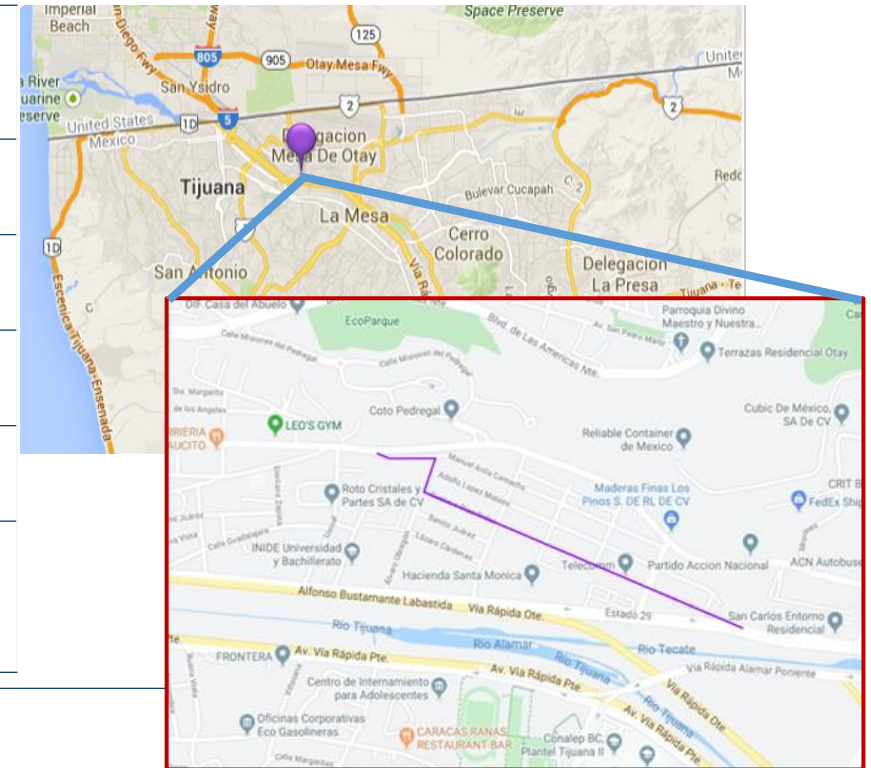


MAY 2021

BC Tijuana Oriente Collector Rehabilitation

Project Summary (Amounts in Dollars US)

Sponsor:	CESPT
Estimated Cost:	\$ 1.8 m
NADB Funding:	\$ 0.90 m
Funding Partners:	CONAGUA \$ 0.27 m and CESPT \$ 0.63 m
Benefitted Population:	154,000
Results:	41,435 improved connection, eliminated risk for WW discharges 7.1 mgd capacity



Status:	<ul style="list-style-type: none"> ✓ Certified on August 21, 2020. ✓ Includes the installation of 1,346 meters of 42-inch diameter pipeline. ✓ Mexican segments 2 & 3 completed in December 2020. ✓ Mexican disbursements to date \$764,801 (MX\$ 17,402,962) ✓ CM procurement complete and construction of BEIF component under procurement.
----------------	---

BC Tijuana Oriente Collector Rehabilitation

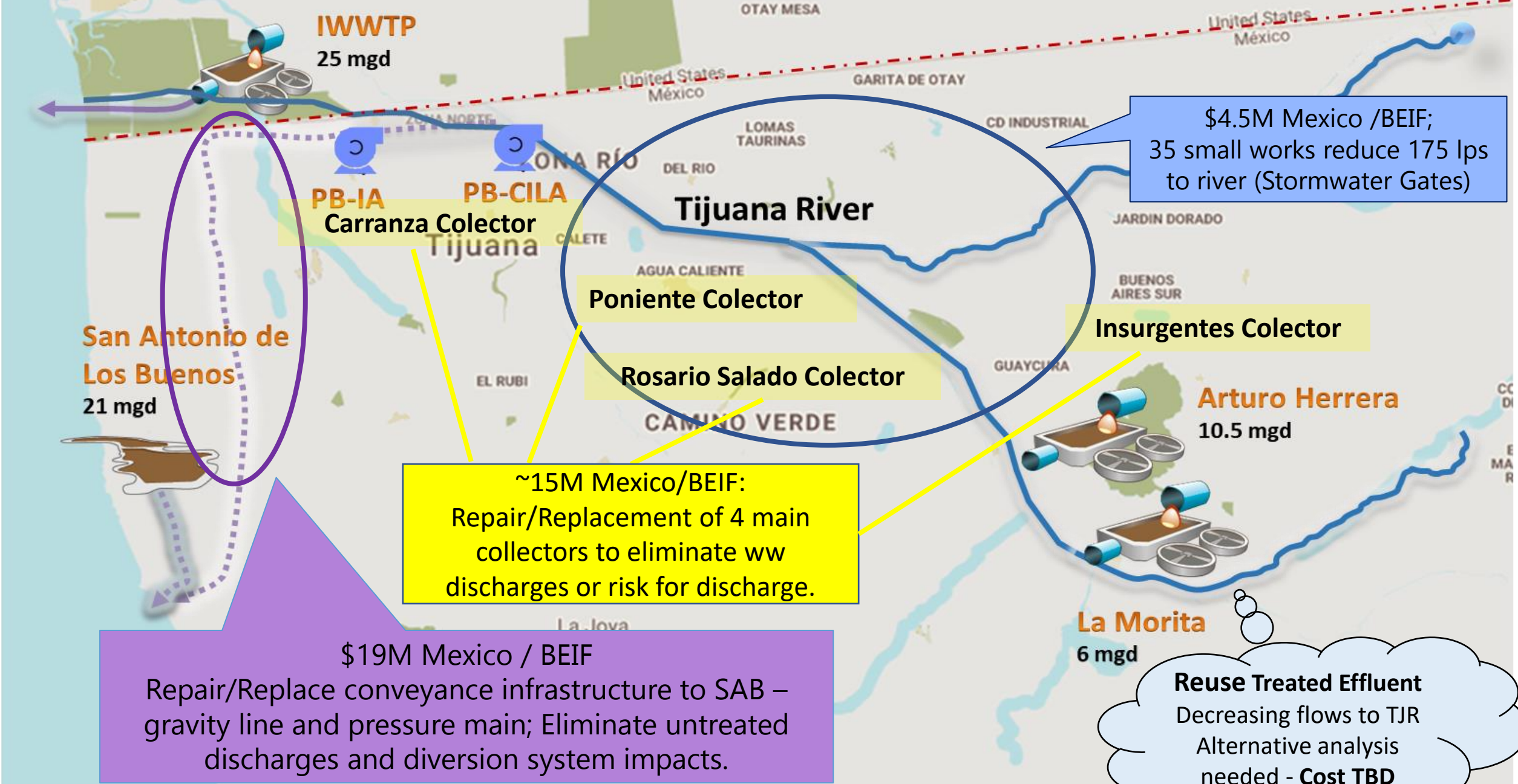


Project location detail



Project Components

- ✓ Installation of 1,346 linear meters (4,415 ft) of 42-inch diameter pipe:
 1. Segment-1 1,611 ft
 2. Segment-2 1,539 ft
 3. Segment-3 1,266 ft



New Applications under consideration

Question and Answer Session

Closing Remarks

Thank you!