

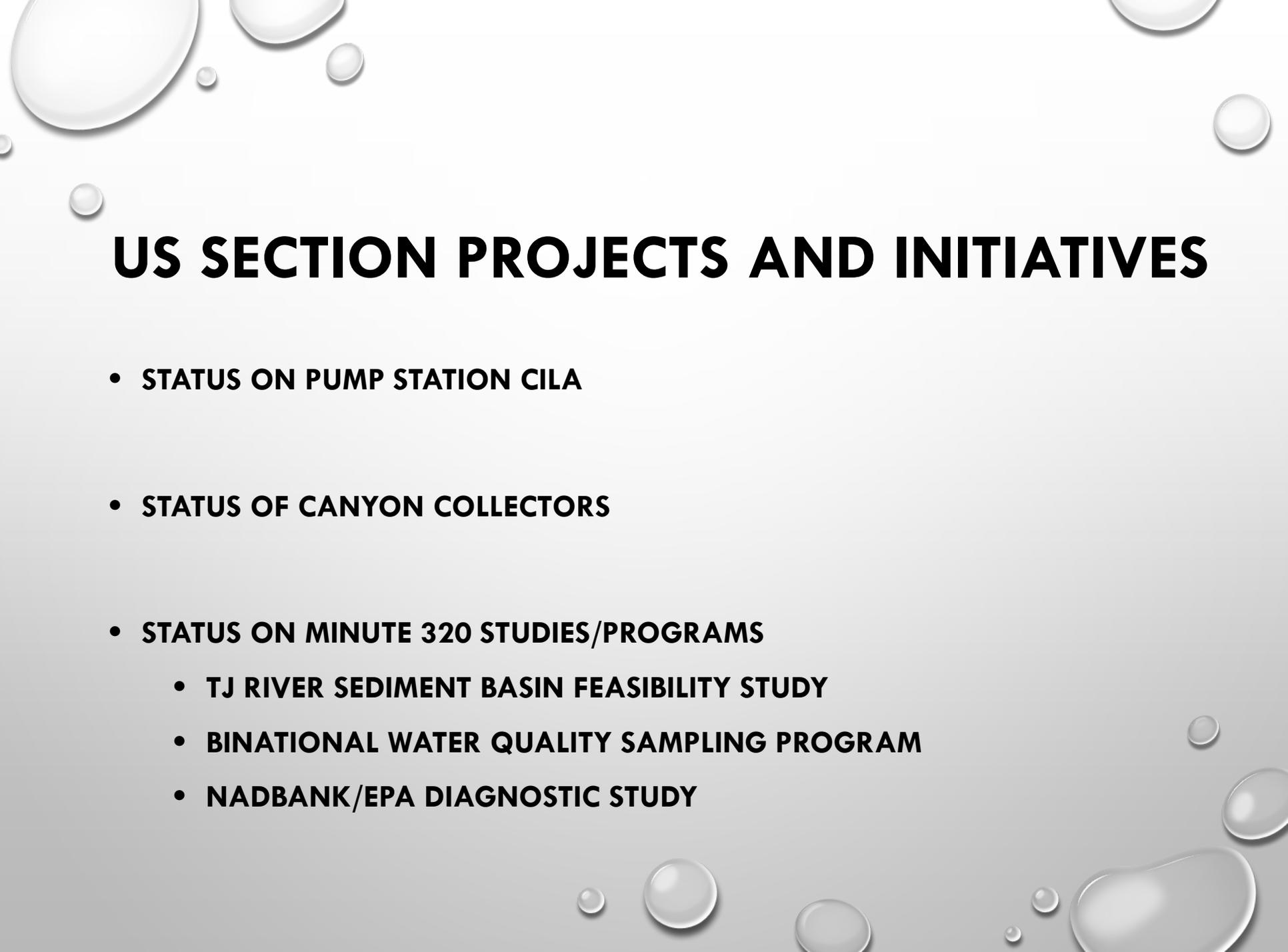


# **TIJUANA RIVER BASIN PROJECT AND PROGRAM STATUS**

**US Section, International Boundary and  
Water Commission**

**San Diego Field Office**

**March 2019**



# **US SECTION PROJECTS AND INITIATIVES**

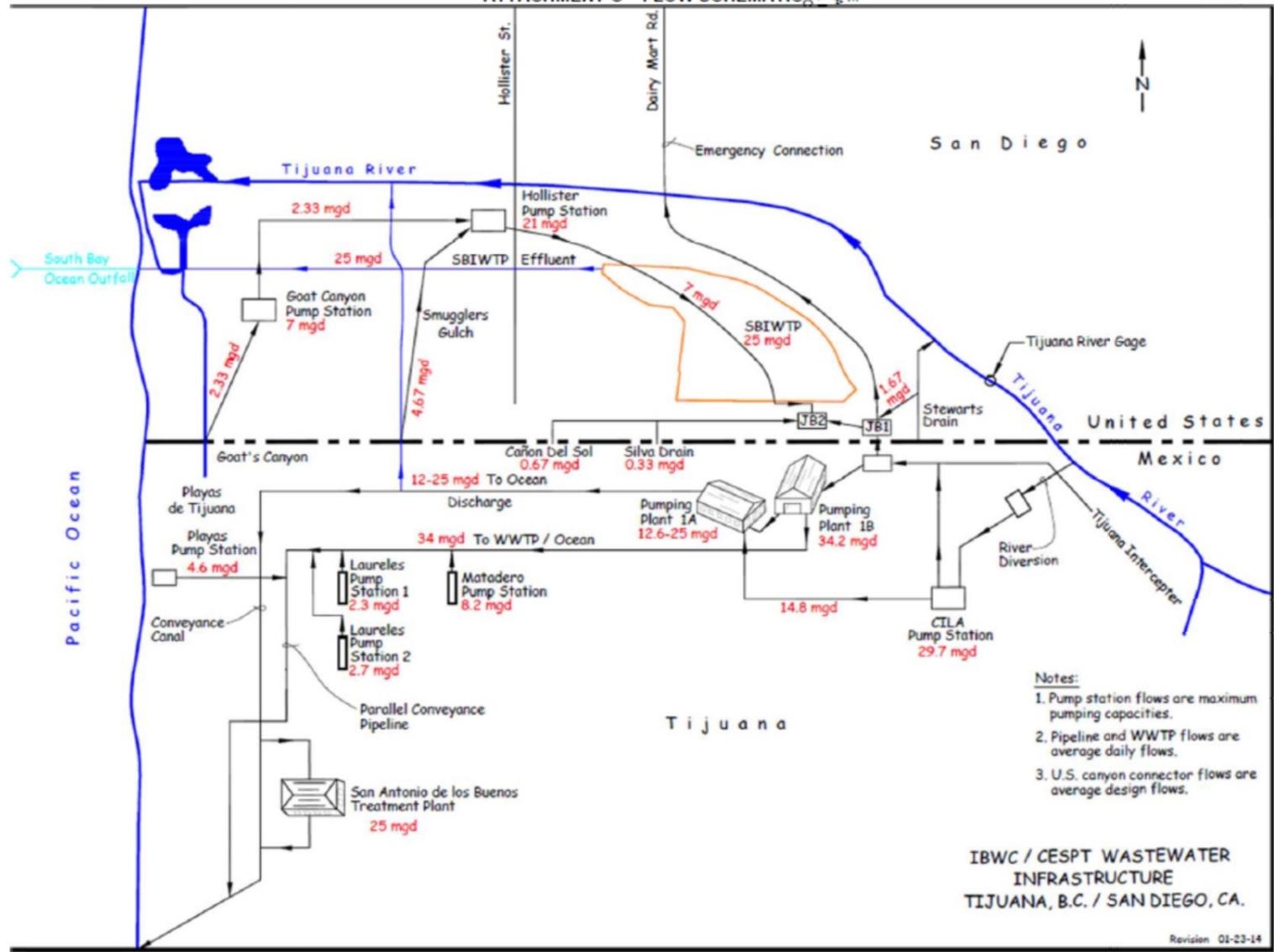
- **STATUS ON PUMP STATION CILA**
  
- **STATUS OF CANYON COLLECTORS**
  
- **STATUS ON MINUTE 320 STUDIES/PROGRAMS**
  - **TJ RIVER SEDIMENT BASIN FEASIBILITY STUDY**
  - **BINATIONAL WATER QUALITY SAMPLING PROGRAM**
  - **NADBANK/EPA DIAGNOSTIC STUDY**

# **SOUTHBAY INT'L WWTP**

- **FOR THE MONTHS OF DEC 2018, JAN 2019 AND FEB 2019 TREATED APPROXIMATELY 2.3 BILLION GALLONS OF WASTEWATER**
- **NO EXCEEDANCES OF DISCHARGE PERMIT REPORTED**

PERMITTEE  
 FACILITY NAME  
 ORDER NO.  
 NPDES NO.

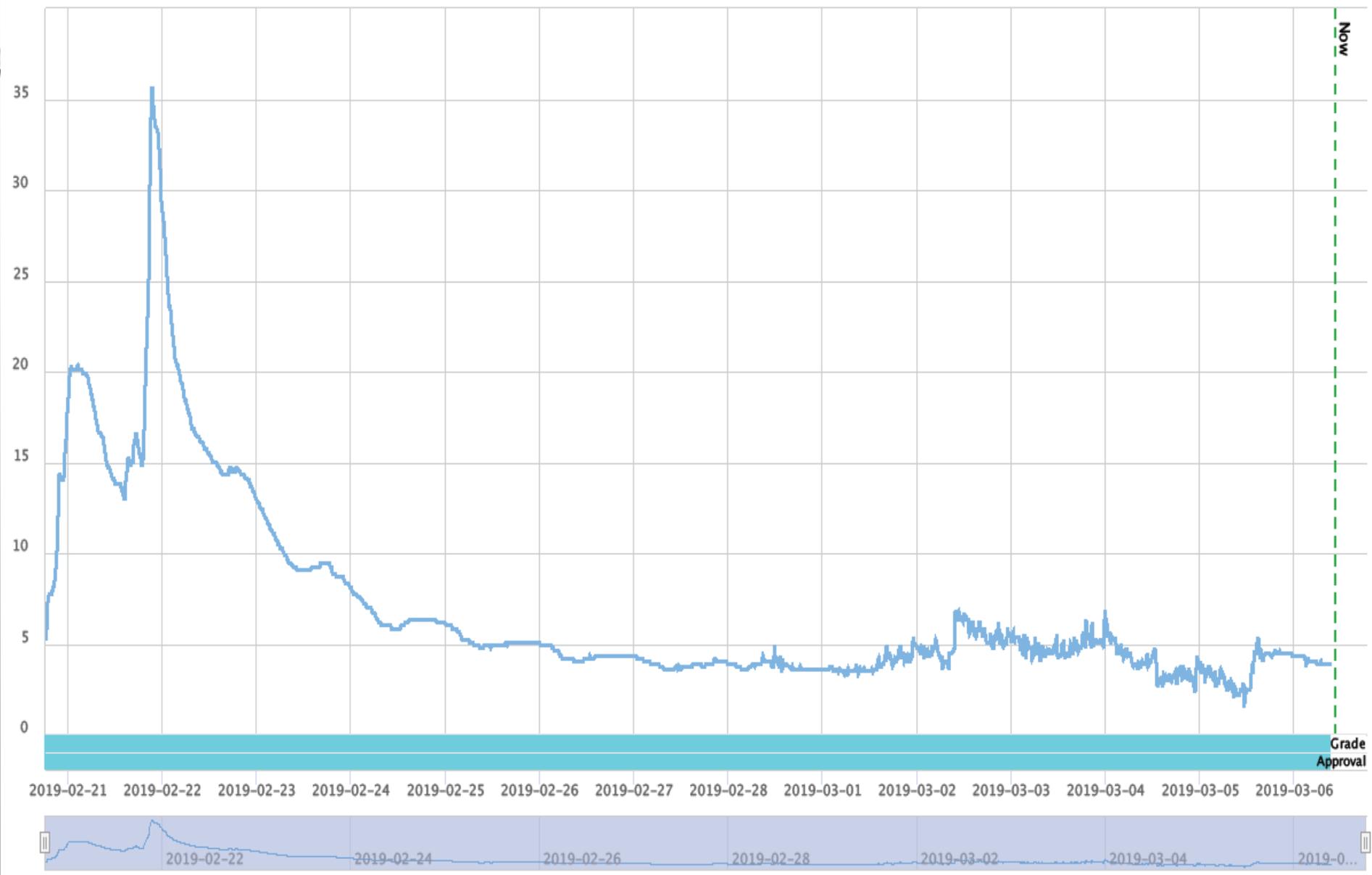
ATTACHMENT C – FLOW SCHEMATIC



# Schematic of Wastewater Infrastructure

# PUMP STATION CILA





— Discharge.Best Available@11013300, Tijuana River At International Boundary, Discharge



# BERM IN TJ RIVER CHANNEL



**Dec 6, 2018**



**March 7, 2019**

# **BERM IN TJ RIVER CHANNEL**

## **2019 GOALS**

- NO TRANSBOUNDARY FLOWS BETWEEN APRIL AND SEPT
- INSTALL TEMPORARY BERM AT IB WITH POTENTIAL BUILT IN PUMP BACK SYSTEM
- WORK WITH MEXICO TO INSTALL AT PS CILA
- IMPROVE RELIABILITY OF PS CILA EQUIPMENT

# TJ RIVER NEAR DAIRY MART BRIDGE



**December 6, 2018**

# TJ RIVER NEAR DAIRY MART BRIDGE



**March 7, 2019**

# STATIS OF IBWC INFRASTRUCTURE

- STEWART'S DRAIN
- SILVA DRAIN
- CANYON DEL SOL
- SMUGGLERS DRAIN
- GOAT CANYON



**Yogurt  
Canyon**

**Goat Canyon CC**

**Smuggler's CC**

**Canyon Del Sol CC**

**Silva Drain CC**

**Stewart's Drain  
CC**

# Canyon Collectors

# STEWARTS DRAIN

**TYPICAL DRY  
WEATHER  
CONDITION**





**Stewarts Drain, March 7, 2019**

# SILVA DRAIN



**MARCH 7, 2019**

# CANYON DEL SOL CANYON COLLECTOR



MARCH 7, 2019

# SMUGGLERS GULCH CANYON COLLECTOR



**MARCH 7, 2019**



# OTHER INITIATIVES

- **BINATIONAL WATER QUALITY SAMPLING PLAN**
- **SEDIMENTATION BASIN FEASIBILITY STUDY**
- **NADBANK/EPA DIAGNOSTIC STUDY**

# BINATIONAL WATER QUALITY SAMPLING

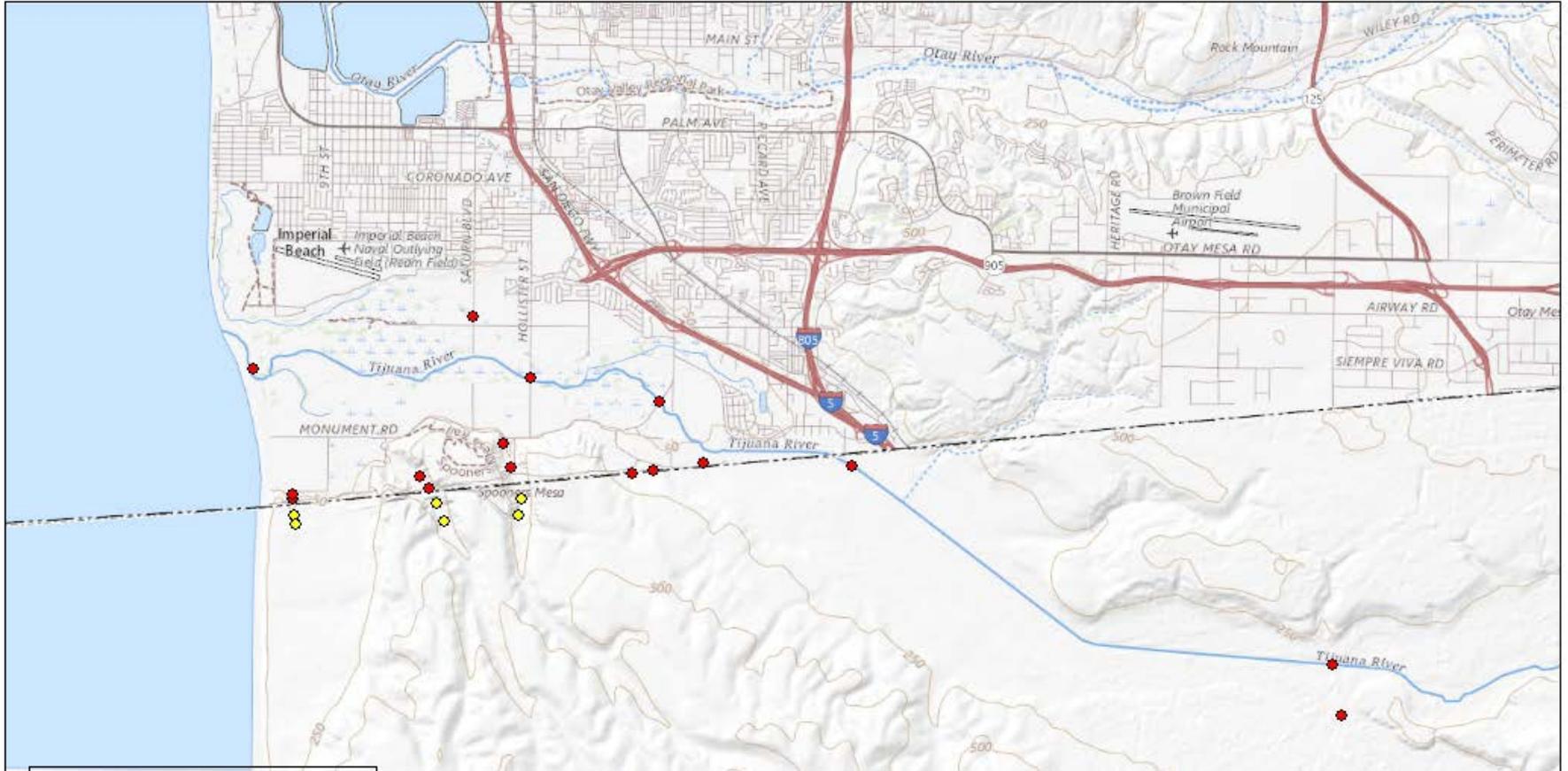


# **BINATIONAL WATER QUALITY SAMPLING**

- **PURPOSE OF THIS STUDY:**
  - **GATHER BASELINE DATA AT THE TRANSBOUNDARY LOCATIONS**
  - **IDENTIFY HIGHER THAN NORMAL CONSTITUENTS AND POSSIBLE CONCERNS**
  - **MOLD FUTURE ROUTINE MONITORING**
  - **INITIATE SOURCE TRACKING STUDIES IF NEEDED BASED ON BASELINE DATA**

# BINATIONAL WATER QUALITY SAMPLING

Tijuana River Watershed Binational Sampling Sites



# **BINATIONAL WATER QUALITY SAMPLING**

## **PARAMETERS**

- **WATER AND SEDIMENT AT ALL CANYON LOCATIONS**
- **ALL PARAMETERS FOR ALL RIVER LOCATIONS ONCE AND THEN CONVENTIONAL AND PATHOGENS FOR THE REMAINDER**
- **CONVENTIONALS, METALS, ORGANICS, PESTICIDES**
- **PATHOGENS**
  - **COLIFORMS, SALMONELLA, ENTEROCOCCUS, ENTERIC IN SEDIMENT**
  - **COLIFORMS, CHOLERA, ENTEROCOCCUS, ENTERIC VIRUS, CAMPHYLOBACTER, AND NOROVIRUS IN WATER**

# **BINATIONAL WATER QUALITY SAMPLING**

## **STATUS**

- **SAMPLES COLLECTED IN DECEMBER, JANUARY, AND FEBRUARY**
- **2 RAIN EVENTS HAVE BEEN COLLECTED**
- **DATA RECEIVED FOR DECEMBER BUT STILL NEEDS QA**
- **QUARTERLY REPORTS WILL BE PRODUCED EVERY QUARTER WITH FINAL REPORT AFTER 1 YEAR**

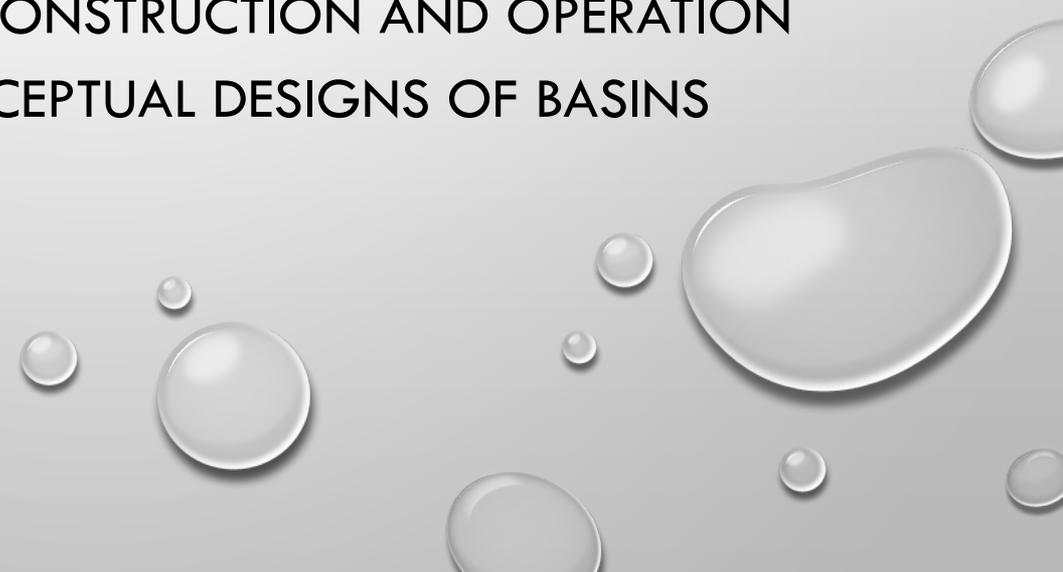


# FEASIBILITY STUDY FOR SEDIMENTATION BASINS

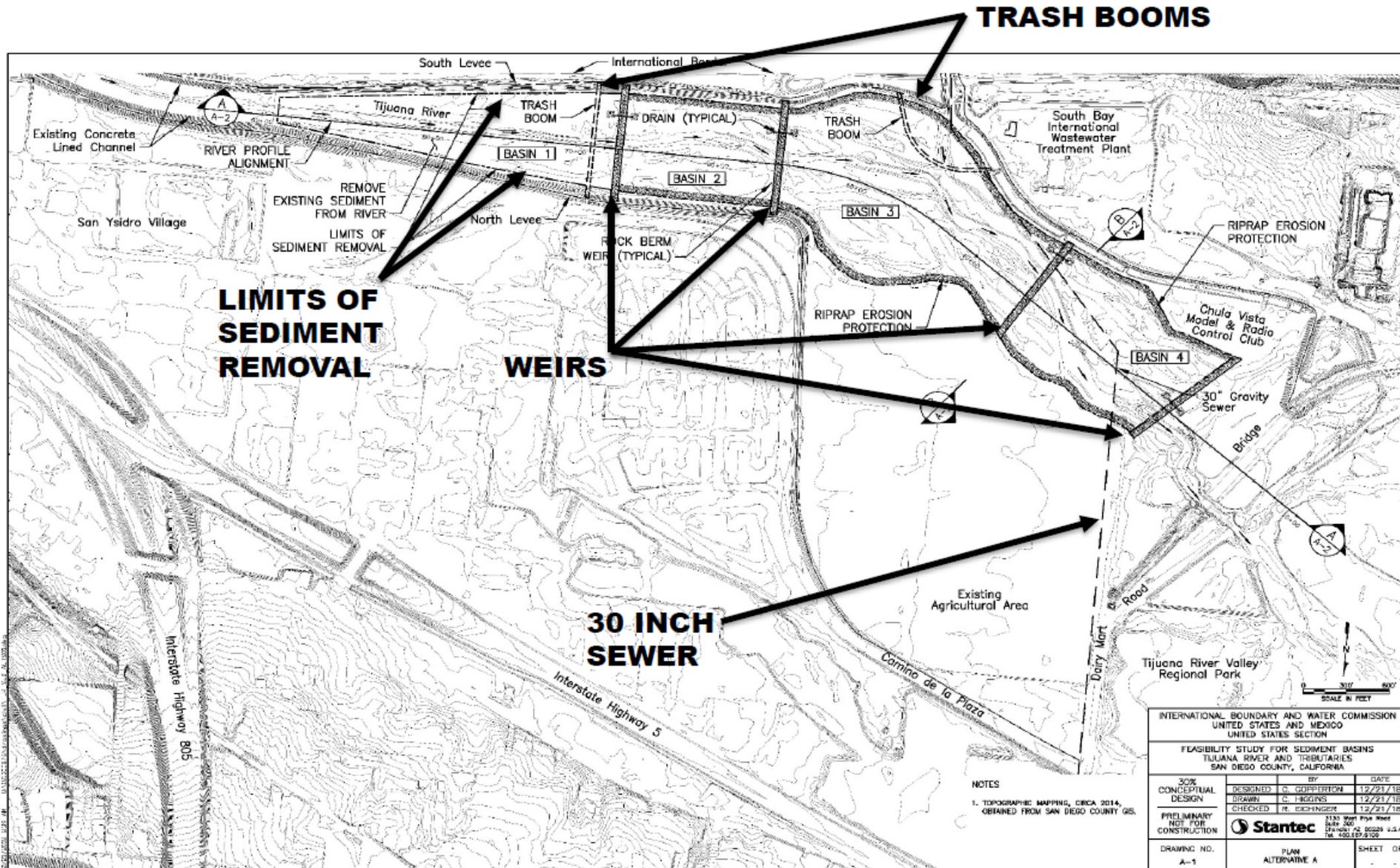
**PURPOSE OF STUDY:** DETERMINE LOCATION AND SIZING OF SEDIMENTATION BASIN(S) IN THE TIJUANA RIVER

**COMPONENTS OF STUDY:** BASINS WILL CAPTURE TRASH, DEBRIS AND TRANSBOUNDARY FLOWS

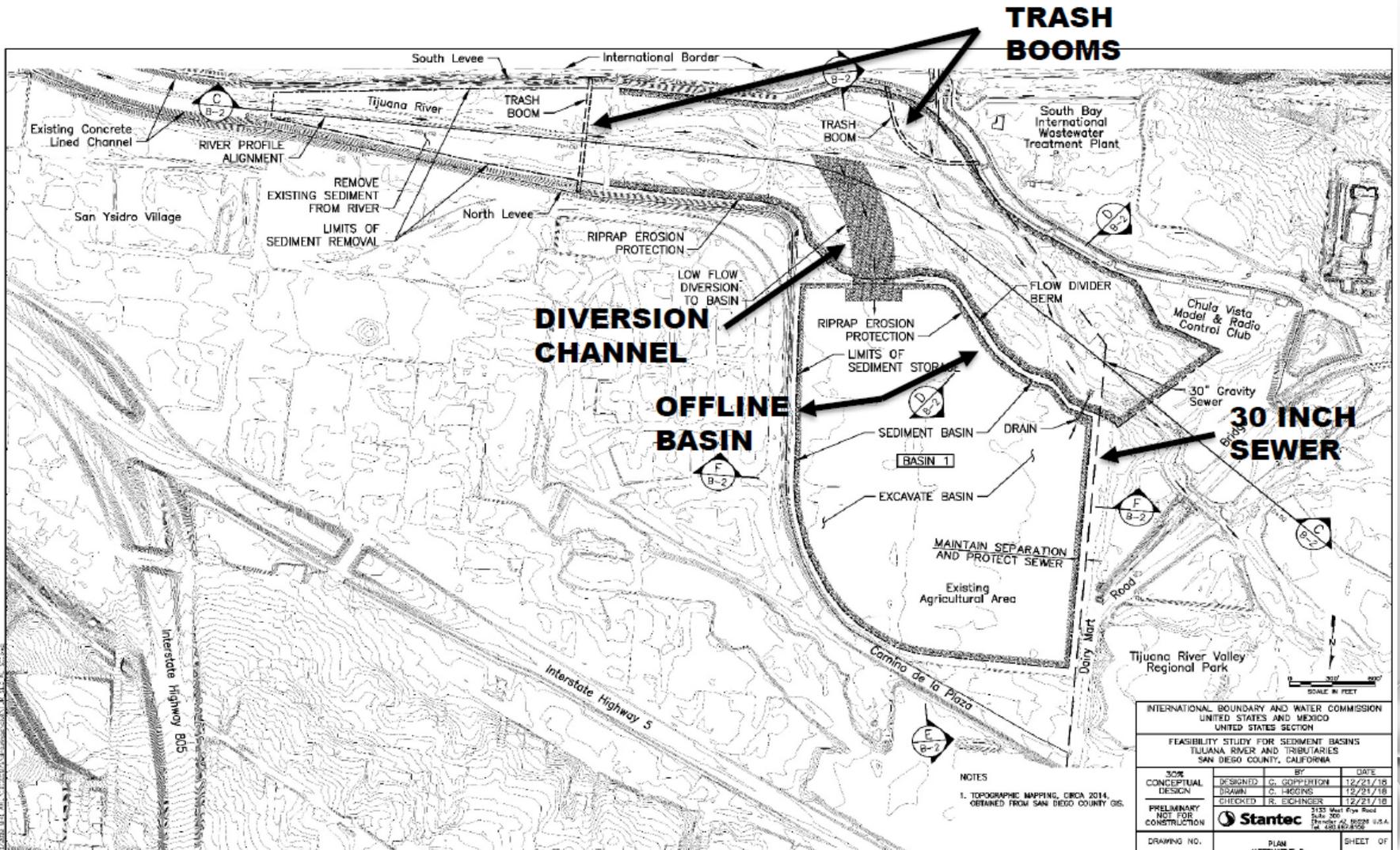
**FINAL STUDY:** ESTIMATED CONSTRUCTION AND OPERATION COSTS ALONG WITH CONCEPTUAL DESIGNS OF BASINS



# Sediment Basin Alternative A



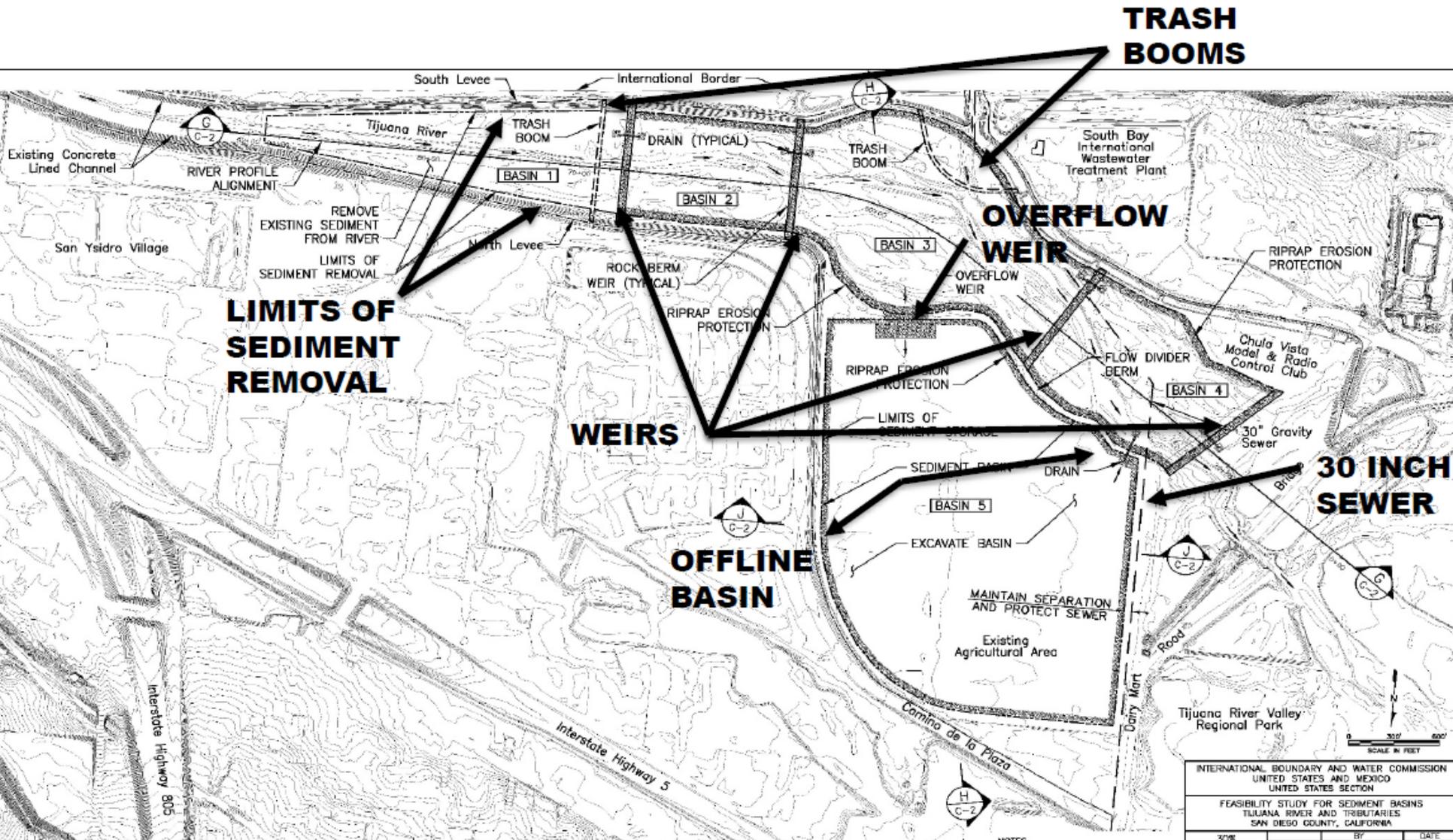
# Sediment Basin Alternative B



INTERNATIONAL BOUNDARY AND WATER COMMISSION UNITED STATES AND MEXICO UNITED STATES SECTION			
FEASIBILITY STUDY FOR SEDIMENT BASINS TIJUANA RIVER AND TRIBUTARIES SAN DIEGO COUNTY, CALIFORNIA			
30% CONCEPTUAL DESIGN	DESIGNED BY G. COPPERTON	DATE 12/21/18	
PRELIMINARY NOT FOR CONSTRUCTION	DRAWN BY G. HOGINS	DATE 12/21/18	
	CHECKED BY R. SCHNIGER	DATE 12/21/18	
DRAWING NO.		5133 West Frye Road Escondido, CA 92029 U.S.A. Tel: 760.781.8500	
PLAN ALTERNATIVE B		SHEET OF	

NOTES  
1. TOPOGRAPHIC MAPPING, CIRCA 2014,  
OBTAINED FROM SAN DIEGO COUNTY GIS.

# Sediment Basin Alternative C



# Preferred Alternative Project Schedule

Deliverable	Start Date	Due Date
30% Conceptual Design	11/7/2018	1/13/2019
30% Design Submittal		12/21/2108
60% Conceptual Design	12/21/2108	5/3/2019
60% Design Submittal		4/12/2019
90% Conceptual Design	4/12/2019	7/23/2019
90% Design Submittal		7/2/2019
Pre-Final Conceptual Design	7/2/2019	8/13/2019
Pre-Final Submittal		8/13/2019
100% Conceptual Design	8/13/2019	9/21/2019
100% Design Submittal		9/18/2019

# **NADBANK/EPA DIAGNOSTIC STUDY**

**DEFINING POTENTIAL TECHNICAL ALTERNATIVES TO  
ADDRESS TRANSBOUNDARY FLOWS:**

- **OPTIMIZATION OF EXISTING DIVERSION FACILITY**
- **EXPANSION OF EXISTING DIVERSION FACILITIES**
- **NEW DIVERSION FACILITIES IN THE U.S.**
- **COMBINATION OF DIVERSION FACILITIES IN THE  
U.S. AND MEXICO**

# **NADBANK/EPA DIAGNOSTIC STUDY**

**ESTIMATED COSTS: ESTIMATED CAPITAL FROM \$20 TO \$280 MILLION**

**OPERATION AND MAINTENANCE: ESTIMATED FROM \$4 TO \$16 MILLION**

- **EVALUATION CRITERIA FOR 12 ALTERNATIVES:**
- ESTIMATED DAYS PER YEAR WITH TRANSBOUNDARY FLOWS
- CAPITAL COST
- OPERATIONS AND MAINTENANCE COST
- CHARACTERISTICS AFFECTING FEASIBILITY

# **NADBANK/EPA DIAGNOSTIC STUDY**

## **FOOTNOTE:**

- **ALTERNATIVES WILL NOT REDUCE 100% OF TRANSBOUNDARY FLOWS**
- **REDUCTION RANGES FROM A BASELINE OF 138 DAYS TO BEST ALTERNATIVE OF 80% REDUCTION (< 30 DAYS)**

INTERNATIONAL BOUNDARY AND WATER COMMISSION,  
UNITED STATES AND MEXICO  
UNITED STATES SECTION



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