

# Binational Technical Committee

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## New River/Mexicali Sanitation Program





California

Arizona

Salton Sea

Colorado River

Palm Desert

New River

Calexico  
Mexicali

U.S.  
Mexico

San Diego

Tijuana

Pacific Ocean

Gulf of California

Pathogens, Trash, lack of Dissolved Oxygen  
76,000 to 115,000 AFY  
(80-160 cfs)

# Current Problems

- Pumping Plants (~\$9.5M)
- Sewage collectors (~\$11M)
- O&M Equipment (~\$7.5M)
- Wastewater Treatment Plants
  - Mexicali IV (~\$11M)
  - Repairs (~\$3.4M)



# Actions Taken

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- Regional Board urged USEPA & IBWC take action
  - May 2015 US BTC Policy meeting
    - Pumping Plants and Lift Stations
      - Immediately fix known problems
    - Repair collapsed collectors
    - Need written plan to prevent bypasses due to ongoing repair/replacement work
    - Need to properly characterize infrastructure problems
    - Need O&M equipment
  - Oct 2015 USEPA funded study of infrastructure problems
    - Identify causes and types of problems (design, O&M, pretreatment?)
    - Identify whether problem is with binationally funded infrastructure
    - Prioritize problems and actions

# Actions taken by CESPM

## Municipal Sewage Collection and Treatment System - SFY 15-16 Critical Projects in Mexicali

Priority	Project Location	Project	Projected Costs
1	Zaragoza WWTP	Various improvements/repairs	\$7,703.56
1	Las Arenitas WWTP	Various repairs	\$218,750.00
1	Sewage Pumping Plant 1	Rehabilitation of Pumping Plant	\$1,468,750
1	Sewage Pumping Plant 4	Rehabilitation of Pumping Plant	\$16,835.81
1	Sewage Pumping Plant 5	Rehabilitation of Pumping Plant	\$68,750.00
1	Right Side PP	Rehabilitation	\$843,750.00
1	Sewage Collection System Operation and Maintenance (O&M) Equipment	Purchase of O&M Equipment, including sewage collection system vacuum trucks	\$687,500.00
<b>Projected Total</b>			<b>\$3,312,055.38</b>

# FY 16-17 Mexicali Needs

## Municipal Sewage/Wastewater Critical Projects in Mexicali

Priority	Project Location	Project	Projected Costs
<b>1</b>	Zaragoza WWTP	Pretreatment Program	\$1,870,885.52
<b>1</b>	Las Arenitas WWTP	Expansion	\$8,756,250.00
<b>1</b>	Sewage Pumping Plant 2	Rehab	\$282,537.00
<b>1</b>	Sewage Pumping Plant 4	Frequency Modulator (Electrical)	\$112,031.35
<b>1</b>	Sewage Pumping Plant 5	Rehab	\$843,750.00
<b>1</b>	Various Sewage Lift Stations	Rehab	\$1,598,813.76
<b>1</b>	Pumping System	Telemetry Equipment	\$1,000,000.00
<b>1</b>	Sewage Collection system	New Lines	\$2,337,500.00
<b>1</b>	Sewage Collection system	Rehab	\$1,116,983.31
<b>1</b>	Sewage Collection system	Repair Collapsed Collectors	\$222,470.41
<b>1</b>	O&M Equipment	Purchase of O&M Equipment, including sewage collection system vacuum trucks	\$4,937,500.00
			<b>\$23,078,721.36</b>

# Summary

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- BTC focusing on emerging problems, expansion of Las Arenitas
  - Short-term outlook
    - Problematic for the next 5 years
    - In spite of efforts, bypasses of raw sewage very likely
    - Must continue to urge USEPA, IBWC to make problem a priority
  - Long-term outlook
    - Flows will continue to decline
    - Mexicali will be reusing more treated wastewater
    - Need to address nonpoint source pollution and stormwater runoff

# Comments/Questions?