



Texas-New Mexico- Chihuahua Water Task Force

*Border 2020 Water Task Force Meeting
El Paso, Texas*

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Border 2020 Water Goals

- Help drinking water and wastewater service providers in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.
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- Work bi-nationally to identify and reduce surface water contamination in transboundary waterbodies and watersheds.
- Provide the public with timely access to water quality data in binational waterbodies and watersheds in a readily understandable, web-based format.





Task Force Priorities

- Provide workshops on water conservation, pollution control and proper decommissioning of septic tanks in order to better understand, plan and maintain clean up source of drinking water on future groundwater supplies in New Mexico-Texas-Chihuahua border.
- Knowledge exchange on water conservation programs specifically for the semi-arid climate condition within the Paso De Norte Region to address future water availability in the Chihuahua's desert region.
- Develop projects and programs for the region.





2-year action plan summary

- Water Policy Forum Work plan actions relevant to region (i.e. Infrastructure & assistance)
- Water Management & Sustainability in Paso del Norte:
 - Master Water Plan for Juarez (BECC/USAID)*
 - Continue to reduce Public Water consumption per capita in Ciudad Juarez*
 - Outreach & Education efforts carried on by local utilities or stakeholders – either direct border grant projects, workshops / conferences / summits
 - Conservation and reclaimed water projects (i.e. increase of purple pipe both US and MX)
 - New water sources and reduce consumption





2-year action plan summary

- Water and Wastewater Treatment & Expansion for the improvement of water quality and meeting demands
 - BEIF Projects
 - Juarez will reach 100% Treatment of waste water by next year.*
 - Water Treatment Plant for Mexican allocation of Rio Grande water*
 - Increase of household connections





Purple Pipe Projects in Region

- Continued Expansion of Water Reuse Projects (i.e. purple pipe projects) EPWU and JMAS already funding these items
 - There are >50 miles of purple line in Juarez.
 - >40 miles in El Paso
 - There are projects to expand this system on both sides of the border





Highlight: Bi-national Water Summit (September 2012)

- Long term planning and water management for shared water resources
- Establish and maintain a clearing house for bi-national watershed data to advance harmonization and sharing of U.S. and Mexican water data.
- Develop new approaches to integral watershed analysis and management across the border that should include:
 - Water availability, water use and water balance
 - Supporting investments in water infrastructure in the border regions
 - Long term planning for bi-national use of water resources
- Support and facilitate research in the following areas:
 - Water modeling
 - Climate change





JUSTIFICATION FOR WATER PLANT

HUECO BOLSON

(ONLY SOURCE FOR JUAREZ UNTIL 2010)
FROM 1926 TO DATE: 5,000 MILLION M3

MESILSA BOLSON

(STARTING IN MAY 2010)
FROM 2010 TO DATE: 25 MILLION M3





ALTERNATIVES TO GIVE SUSTAINABILITY TO HUECO BOLSON

- INTENSIVE USE OF TREATED WASTE WATER
- WATER PLANT FOR PART OF MEXICO'S ALLOCATON OF RIO GRANDE WATER
- TERTIARY TREATMENT PLANTS (RE-INJECTION)
- HARVESTING OF STORM WATER
- DESALINATION PLANT





WATER TREATMENT PLANT: THE PROJECT

- TREATS SURFACE WATER ALLOCATED TO MEXICO, (CONVENTION OF 1906, WATER TREATY)
- JMAS MUST NEGOTIATE WATER EXCHANGE WITH FARMERS . PEAK SUMMER MONTHS (MAY-SEPTEMBER)
- CNA, IBWC/CILA MUST APPROVE PROPOSED CHANGES





Task Force Future

- Emerging Issues:
 - Climate Change and drought planning in watershed management and trans boundary resources
 - Studies on surface and groundwater interaction (urban and rural)
 - Update to 2-year work plan:
 - Water Treatment Plant (Part of Mexico allocation of Rio Grande water)

