Texas-New Mexico-Chihuahua Water Task Force

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Two-year Action Plan: Status of US Projects
Goal 2: Improve Access to Clean and Safe Water

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Lower Per Capita consumption to <200 liters per day to increase sustainability of Hueco Bolson	Ongoing	Continue with conservation measures, and put into action recommendations from Master Plan. Other actions include change of valves, lowering pressures where needed, etc..
Installation of Solar Energy Plant at EPWU Desalination Plant	Ongoing	Investigate technologies that effectively reduce energy costs
City of El Paso desalination facility produces 27.5 million gallons of fresh water daily (MGD) making it a critical component of the region's water portfolio. EPWU is looking into technology that will reduce the energy costs at the desalination plant.	Ongoing	Provide 27.5 million gallons per day of drinking water and the disposal of 3 million of gallons per day of brine at deep aquifers ant. Increase energy efficiency for the reverse osmosis technology.
GREYWATER REUSE: El Paso County Rogelio Sanchez State Prison	Ongoing	Reuse of 40,000 gallons/month of laundry water
Subsequent phases are intended to serve the Fort Bliss military base and include additional pumping and storage facilities, and associated transmission and distribution pipelines along Ft. Bliss, City parks, and schools in El Paso	Ongoing	Phases I and II currently save approximately 56 million gallons of potable water per year. The Fred Hervey Reclaimed Water Project saves approximately 1,225 million gallons of potable water. In addition, almost 500 million gallons of reclaimed water is returned to the Hueco Bolson for aquifer recovery through injection wells and infiltration basins.

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Increase household Connections in El Paso County Lower Valley.	Ongoing	Increase household Connections in El Paso County Lower Valley.
The water and wastewater systems follow the recommendations provided in the 1988 Water and Wastewater Management Plan.	***Complete*** *The phase III Wastewater System Project completed.*	
Utilize information on water conservation relevant to the community to help lower water bills for residents. Assess reductions in bills based on comparable months of use.	***Complete*** *Conduct one (1) half-day workshop for some 50-70 households in Columbus on residential water conservation*	
Installation of Real Time Monitoring of Irrigation Water SCADA	***Complete***	
Workshops on proper de-commissioning of septic tanks, water conservation and pollution prevention in order to better understand and plan for future groundwater supplies in NM/CHIH Region.	***Completed by in May 2014 thru Border 2020 Grant*** *6 community workshops in Dona Ana and Luna County (~420 households, ~1,200 individual residents). In addition, workshops will be supplemented with outreach material developed (~200 posters, 800 take-away brochures)*	
Phase I & IA of the Central Reclaimed Water Project	***Complete*** *Provides approximately 325 MG of reclaimed water per year*	

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Conduct risk assessment of these wastewater systems that pose a potential health and environmental risk. Conduct outreach outreach in Dona Ana/Juarez areas with theses systems that overlay Mesilla Bolson.	***Complete*** *- A spatially referenced database (geo-database) produced with GIS tools that details the spatial location of all permitted systems in the study area,* *- Scientifically generated identification of specific areas that are at risk that will be of use to relevant governmental agencies,* *- Outreach materials that outline the details of risk to groundwater due to onsite systems and provide detail on how to best manage this risk,* *- The development of a toolbox that would be very useful to other parts of the border region that face similar challenges and issues.*	

Two-year Action Plan: Status of MX Projects

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Drought conditions in Juarez.	Ongoing	JMAS has already lowered water pressure to prevent spills. It has reinforced all conservation measures and if drought conditions persist emergency actions will include stopping water service during some nights and eventually programmed allowanced to save water. Have fewer incidents of "No Water" due to severe drought and technical problems.
Water Festivals in Palomas, Ascension and Janos to promote water conservation to communities.	***Completed May 2014 thru Border 2020 Grant*** *6 Water Festivals (impact 500-1,500 community residents).*	
Water Conservation Project in Pto. Palomas, Chihuahua.	***Completed by end of 2013 thru Border 2020 Grant*** *-Train local community members on water conservation and gray-water systems* *-Install 15 gray-water systems in homes in Palomas. Water reused for gardens.* *-Install at Palomas library a gray-water system and retrofit sanitation system with dry toilets.*	
US/Mexico Bi-national Water Summit.	***Completed September 2012 - various recommendations*** *(http://www.ibwc.gov/Files/2012_Summit/Summit_Recommendations.pdf)* *Address Trans-boundary Water Sustainability and Planning in the Juarez/Paso el Norte planning region.* *Discuss bi-national progress, and address possible changes needed in CILA/IBWC to meet the challenges of the future.*	

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Meet landmark of 100% capacity to treat waste water in Ciudad Juarez.	***Completed May 29, 2014*** *with the operation of the Juarez Valley Wastewater Treatment Plant.* *The upgrade of the North and South plants, and the Laguna de Patos plant which recently went on line, Ciudad Juarez now has capacity to treat 100% of its waste water. All treated effluents are re-used either in municipal green areas or in agriculture.*	
Update of Juarez Water Master Plan 2012-2030.	***Master Plan is complete.*** *A ceremony was conducted headed by Dr. Uriarte and other JMAS VIPS*	*Run simulation of water and waste water program and reveal best places for purple line extensions.* *Develop the concept of tertiary treatment for reinjection into the aquifer, and set baseline indicators for a water plant.*
Certification of JMAS water laboratory by EMA (Entidad Mexicana de Acreditación)	***Complete***	*The lab is already certified for several parameters. Additional tests would convert it into a regional lab, and would service the North of Mexico. This lab will also give certainty of water supply quality offered by JMAS.*
Presentation to Palomas officials and residents of home filter for removal of contaminants specific to the region's municipal groundwater such as fluoride and arsenic concentrations.	***Completed by May 2014 with thru B2020 Grant.***	*Presentation to Palomas officials to seek approval of low-cost clay filters for household faucets to reduce contaminants. If adopted, the group will work to seek funds for installation of home filters.*

Project Title	Status (Complete/Ongoing)	Target for 2015-2016
Microbiological and chemical risk analysis that impact environmental and human health in the Valley de Juarez region.	***Complete*** *- Evaluate the public health impacts from infrastructure projects in 10 communities in the Valley de Juarez by conducting a microbial analysis drinking water system at various points* *- Conduct epidemiology survey in the 10 communities to determine the prevalence of gastrointestinal illness in the community members* *- Environmental Public Health campaign to communities regarding safe drinking water and hygiene practices*	
Rio Bravo (Grande) Water Treatment Plant	Ongoing	The plant already has conceptual pre-design and is expected to go into final design phase in the next few months. This plant is planned to move forward in 2015, and the paper work, permitting, financing and so on, is expected to finish in 2014.

Project(s) Successes

- Ciudad Juarez now has capacity for treating 100% of its municipal wastewater.
- Juarez Water Master Plan financed by EPA through BECC has given a solid framework for future projects to the city of Juarez.
- Water Plant for Rio Grande will give the Hueco Bolson sustainability and a third source of water for the city.

Emerging Issues

- High Arsenic and Fluoride in Palomas, Chihuahua – Columbus, New Mexico; Presidio, Texas – Ojinaga, Chihuahua geographic regions.
- Bi-national groundwater studies needed in Presidio, TX –Ojinaga, Chih.; Santa Teresa, NM –Geronimo, Chih. Regions.

QUESTIONS?