

Border 2025 Action Plan (2021-2023) Texas – New Mexico – Chihuahua Region

GOAL 1: – REDUCE AIR POLLUTION						
Objective 1: Establish reliable and sustainably operated air monitoring networks and provide real-time access to air quality data						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Collecting continuous PM2.5 air data from temporary Met One NPM3 sensor at Akela, New Mexico Reservation	Fort Sill Apache Tribe	Environmental Protection Agency (EPA) - Clean Air Act 103 Grant \$8,100	Jennifer Heminokeky jennifer.heminokeky@fortsill.apache-nsn.gov Monte Scammahorn monte.scammahorn@fortsill.apache-nsn.gov	<ul style="list-style-type: none"> Use data toward emissions inventory and justification for a more permanent or official air monitoring at the site. Provide unofficial updates to site personnel and visitors on conditions. Work toward official monitoring for online sharing and tribal records for development planning, public health insights, and education. 	Achieve a foundational database and summary of levels detected to be used in developing an emissions inventory and to use as a basis for more permanent monitoring.	Initial Progress
<i>Objective 1a: By 2023, increase knowledge-transfer and provide at least one training opportunity on performance standards and applications of low-cost air quality sensors.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Maintain operation of Rural Areas air quality monitoring network for reliable data reporting to community of PM ₁₀ levels, as well as other priority contaminants, as established under the New Mexico Office of	New Mexico's Environment Department (NMED) New Mexico Office of Border Health at the Department of Health (NMDOH-OBH)	NMED Border and co-funding from NMDOH-OBH \$20,000	Michael Baca michael.baca1@state.nm.us Freida Adams Freida.adams@state.nm.us Dave DuBois dwdubois@nmsu.edu	<ul style="list-style-type: none"> Predict the onset of windblown dust through sensor development and dust storm weather pattern climatology for the border region. Findings by New Mexico Climatologist will allow for a 	<ul style="list-style-type: none"> Through an analysis map and monitor the sources of windblown dust in the three states. Integrate air quality monitoring efforts, data sharing and reporting among state and local authorities and 	Deliverable Achieved

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Border Health at the Department of Health (NMDOH-OBH) funded by the Binational Air Quality Assessment	Consortium including: New Mexico State University (NMSU) University of Texas El Paso (UTEP) Universidad Autónoma de Ciudad Juárez (UACJ) Desert Research Institute National Weather Service Santa Teresa			binational air quality monitoring information reporting to be included in the State of Chihuahua’s ProAir. <ul style="list-style-type: none"> • Make data available on Internet and other appropriate public access outlets (including mass and social media) in all three states. 	universities of New Mexico, Northern Chihuahua, and West Texas. <ul style="list-style-type: none"> • Assessment of climatological and meteorological phenomena. • Inventory and characterization of sources of Particulates during extreme weather events. 	
Air Quality Education in West Ciudad Juárez	Universidad Autónoma de Ciudad Juárez (UACJ)	\$36,982 Border 2025 funded project	Dr. Adrian F Vazquez fvazquez@uacj.mx Briselda Duarte BDuarte@nadb.org	<ul style="list-style-type: none"> • Install a meteorological and air quality monitoring station in a community center in west Ciudad Juárez, Chihuahua to monitor PM10 and ozone and other meteorological data. • Implementation of an environmental education program through workshops to the community centers of the west of the city. 	<ul style="list-style-type: none"> • Increase awareness on the public health effects associated with exposure to high levels of ozone and PM 2.5 in the El Paso, Texas and Ciudad Juarez, Chihuahua air basin. • Low-cost sensors will be used to assess PM2.5 and O3 concentrations in a community center. • Conduct a series of workshops to teach residents on the public health impact of poor air quality. 	Initial Progress

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					<ul style="list-style-type: none"> Project team met with local stakeholders on October 19, 2022. 	
Joint project on Air Quality Monitoring in the Paso del Norte (PDN) Region on Low-Cost Sensory Study	<p style="text-align: center;">Universidad Autónoma de Ciudad Juárez (UACJ)</p> <p style="text-align: center;">University of Texas at El Paso (UTEP)</p>	UT Austin - LBJ School of Public Affairs	<p style="text-align: center;">Dr. Adrian F Vazquez fvazquez@uacj.mx;</p> <p style="text-align: center;">Dr. Wen-Whai Li wli@utep.edu</p> <p style="text-align: center;">Eddie Moderow Eddie.Moderow@tceq.texas.gov</p>	<ul style="list-style-type: none"> Improve Air Quality monitoring in the border region Produce a case study of scientific measurement and analysis. Foster binational technical exchange, while enhancing binational research collaboration among universities and students Present findings to the Joint Advisory Committee (JAC) Continue to operate network on both sides of the border in accordance with binational Quality Assurance Project Plan 	<ul style="list-style-type: none"> Collect PM air monitoring data from 26 school sites in El Paso and Ciudad Juárez. 12 months of PM Data will be complete in March 2023. Project completion date August 2023 	Significant Progress
<i>Objective 1b: By 2024, develop and implement a sustainable funding mechanism for air quality monitoring in at least one Mexican state.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Binational Air Quality Monitoring Fund	Joint Advisory Committee (JAC) Fund Committee and Administrative Unit	\$99,753.00 North America Development Bank (NADBank) – Binational Air Quality Fund (AQF)	<p style="text-align: center;">Mariama Mitchell mitchell.mariama@epa.gov</p> <p style="text-align: center;">Oscar Fentanes, oscar.fentanes@inecc.gob.mx</p>	The fund established in February 2021 and managed by NADBank is to provide a sustainable financing mechanism to strengthen air quality monitoring	<ul style="list-style-type: none"> Expand AQF Increase Ciudad Juárez air monitoring network by 33%. 	Significant Progress

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		<p>\$25,000 Texas Commission on Environmental Quality (TCEQ)</p> <p>\$102,000 in pass-thru grant by Environmental Protection Agency (EPA)</p> <p>\$25,000 North American Development Bank (NADBank)</p> <p>Fund Balance as of 12/2023: \$251,753.50</p>	<p>Administrative Unit: Eddie Moderow Eddie.Moderow@tceq.texas.gov</p> <p>Ricardo Aragon Burciaga ricardoaragonb@gmail.com</p> <p>César Ismael Fierro Cárdenas cfierro@chihuahua.gob.mx</p>	<p>capabilities in Ciudad Juárez, Chihuahua, shared air basin</p> <p>The AQF shall provide funding for:</p> <ul style="list-style-type: none"> • Operating & Maintenance expense to support Ciudad Juárez’s air quality monitoring stations • Infrastructure, technology and new equipment 	<ul style="list-style-type: none"> • Continue operation and maintenance of sites • Conduct an audit on monitoring network in Ciudad Juárez. • On February 16, 2023 a new air quality monitoring station was inaugurated in Ciudad Juárez to expand the air monitoring network in the region. 	
Objective 1c: <i>By 2025, ensure that all air quality agencies operating one or more regulatory air quality monitors have developed a monitoring network plan (ideally in cooperation with other agencies in the same airshed) and a quality assurance project plan.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Deploy, maintain & operate Ciudad Juárez, Chihuahua Air Quality Monitoring network that jointly with El Paso Texas and Doña Ana County, New Mexico	Ciudad Juárez Ecology Air Quality Program Joint Advisory Committee (JAC) Technical Air Quality Monitoring Committee	Ciudad Juárez’s \$55,000.00 from its appropriations budget	Socorro Yesenia Anaya R. ec.directoral@juarez.gob.mx Cesar Fierro cfierro@chihuahua.gob.mx Francisco Gomez Licon francisco.gomez@chihuahu	Ciudad Juárez’s Air Quality Monitoring Network assessment, repairs, upgrade, and internet installment to improve connection to improve real time reporting and forecasting of ozone, PM2.5, and PM10 air quality.	Establish mechanism for sustainable means of financial support for air quality monitoring station. Effective operation of air monitoring stations and real-time air monitoring data on web.	Significant Progress

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	<p>Texas Commission on Environmental Quality (TCEQ)</p> <p>New Mexico Environment Department (NMED)</p> <p>City of El Paso</p> <p>Ysleta Del Sur Pueblo (YDSP)</p> <p>Mexico’s Secretariat of Environment and Natural Resources (SEMARNAT)</p> <p>Mexico’s National Institute of Ecology and Climate Change (INECC)</p> <p>State of Chihuahua, Secretariat for Urban Development and Ecology (SDUE)</p> <p>Universidad Autónoma de Ciudad Juárez (UACJ)</p>		<p>a.gob.mx</p>			

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Air Quality Monitoring, assessment	Texas Commission on Environmental Quality (TCEQ) - Air Quality Monitoring Division	TCEQ annual budget	Eddie Moderow Eddie.Moderow@tceq.texas.gov	Maintenance of West Texas Visibility Monitoring Network and summary in End-of-Year report	<ul style="list-style-type: none"> • TCEQ maintained a digital camera at Ranger Peak in West Texas to capture information on three specific pollutants • Images were posted on TCEQ public website. • TCEQ will surplus the current camera equipment or determine if there are other viable logistics to retrieve the defunct camera equipment. • TCEQ will assess options to locate new cameras to capture similar data in the West Texas area at a site with safe and regular access to operate and maintain the cameras. • The Chelsea Street cameras continue to be non-functional due to construction activity and will need to be relocated in the area. • Project completed in April 2022. 	Deliverable Achieved
Texas Commission on Environmental Quality (TCEQ) Air Quality	TCEQ - Air Quality Monitoring Division		Eddie Moderow Eddie.Moderow@tceq.texas.gov	Operation of border air monitoring stations and summary in End-of-Year report.	Monitoring sites will report 75% or greater data return each quarter. If required 75% data	Significant Progress

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Assessment and Planning			.gov	TCEQ will operate current border air monitoring stations (AQS) in the Upper, Middle, and Lower Rio Grande Valley sub-regions for specific parameters that vary by location, in accordance with applicable regulations, Quality Assurance Project Plan (QAPP), and grant terms-conditions	return is not achieved, TCEQ will provide a report to the Environmental Protection Agency Region 6 Air Monitoring and Grants Section Chief within 30 days of AQS data entry, explaining the reasons for excessive data loss and any corrective action taken.	
Ceilometer Operations and Maintenance in the Paso del Norte	Texas Commission on Environmental Quality (TCEQ) University of Texas El Paso (UTEP) Universidad Autónoma de Ciudad Juárez (UACJ)	\$200,000 US federal and state funds	Patricia De La Cruz patricia.delacruz@tceq.texas.gov	Operate and maintain a network of three Ceilometers, two in El Paso and one in Ciudad Juárez. Analyze, publish, and archive data.	Ceilometer data from El Paso and Ciudad Juárez. Project will be completed August 2023.	Significant Progress
Binational Homologation: Quality Assurance/Quality Control (QA/QC)	Texas Commission on Environmental Quality (TCEQ) Air Quality Fund Technical experts from Mexico City and Monterrey, Nuevo León	\$30,000 U.S. federal and state funds	Jose Palacios Jose.L.Palacios@Tceq.Texas.Gov Eddie Moderow Eddie.Moderow@tceq.texas.gov	<ul style="list-style-type: none"> Two binational technical exchanges: one virtual and one in-person. A crosswalk or technical comparison of Mexico and United States Quality Assurance Project Plan (QAPP) for air quality monitoring. A Mexico approved QAPP for operations in Ciudad Juárez. 	On February 15 and February 17, 2023, 40 U.S. and Mexican air quality managers and operators participated in two QA/QC workshops in Ciudad Juárez and El Paso, respectively. The workshops strengthened collaborations between U.S. and Mexican technical experts and promoted knowledge exchange as well as sharing of QA/QC best practices.	Moderate Progress

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					Complete target outputs by August 2023	
Objective 2: Increase the quality and exchange of data from emissions inventories across the border and among federal, state, local, Tribal governments and Mexican Indigenous communities and Afro-Mexican people.						
<i>Objective 2a: By 2023, strengthen intergovernmental linkages, increase the exchange of information, and pursue greater harmonization when developing and improving national, state, and municipal emissions inventories, starting with at least two binational airsheds. The initial focus will be on “criteria” pollutants and their precursors (particulate matter, carbon monoxide, lead, sulfur dioxide, nitrogen oxides, volatile organic compounds, and ammonia).</i>						
<i>Objective 2b: By 2024, expand technical training to promote standardized approaches to emissions inventory development (including source measurement and testing) and maintenance.</i>						
Objective 3: Reduce vehicle emissions in the border region, including by establishing or strengthening programs that reduce the number of vehicles that do not comply with vehicle emissions standards.						
<i>Objective 3a: By 2024, increase cross-border (interagency, interstate, and international) access to databases that officials can use to verify that used vehicles meet emission standards.</i>						
<i>Objective 3b: By 2025, implement new vehicle inspection and maintenance programs or improve the existing programs, achieving at least 50% compliance in two or more Mexican states.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Compliance of Ciudad Juárez’s Vehicle Emissions Inspection Program (VEIP)	Ciudad Juárez’s Ecology Department	\$15.0 per VEIP test paid by Vehicle Owner	Ricardo Aragon Burciaga ricardoaragonb@gmail.com	Increase of 25% from previous year’s Vehicles Inspected this activity will be in motion on a yearly basis until all vehicle fleets in Ciudad Juárez comply with Vehicle Inspection Program.	At least (if not more) 50% of total vehicle fleet to be inspected.	Moderate Progress

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<p>Surveillance of freight and public transportation compliance of Emissions Inspection as per Chihuahua State Regulation</p>	<p>State of Chihuahua, Secretariat for Urban Development and Ecology (SDUE)</p>	<p>\$20.0 per Rigg or Bus inspected paid by vehicle owner</p>	<p>Francisco Gomez Licón francisco.gomez@chihuahua.gob.mx</p>	<p>Increase 10% of previous year inspections this activity will be in motion on a yearly basis until all freight and public in Juárez comply with Emission Inspection Program</p>	<p>Transportation Inspection that is carried out twice a year per vehicle of Freight and Public Bus circulating within City of Juárez</p>	<p>Significant Progress</p>

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Objective 3c: By 2025, reduce emissions from freight transportation in the border region by increasing information exchange and harmonization between U.S. EPA’s SmartWay program and Mexico’s Transporte Limpio program.

Objective 4: Deploy strategies and technologies to reduce pollutant emissions and improve public health outcomes.

Objective 4a: By 2023, implement a program on air-quality-related health effects and/or a communication campaign on air-quality-related health risks and mitigation measures in at least one additional urban airshed (e.g., a public awareness campaign on the health impacts of agricultural burning or trash burning).

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Mapping the General Urban Heat and Identifying Urban Heat Island Spots	City of El Paso	\$22,692 Border 2020 funded project Funds from National Integrated Heat Health Information System (NIHHIS) – Climate Adaptation Planning and Analytics (CAPA) Urban Heat Island Mapping Campaign	Fernando Berjano berjanofl@elpasotexas.gov	To produce heat maps for El Paso Engage the public to understand heat related problems and explore solutions.	<ul style="list-style-type: none"> On the campaign date, July 10, 2020, 41 volunteers collected temperature and humidity measurements in different areas within the city. CAPA produced three different time-stamped maps showing heat fluctuations within the city. Two hybrid workshops were held on Jun 24, 2021, and Nov. 4, 2021, with over 50 participants. An online survey was completed by 116 El Paso residents. 	Deliverable Achieved
Air Quality Assessment: International Bridge of the Americas (BOTA), El Paso Texas	University of Texas at El Paso (UTEP)	\$99,586 Border 2025 funded project	Cory Brown orspra@utep.edu Briselda Duarte	To monitor and assess air quality conditions and their effects at one of the international crossings in the Paso del Norte airshed.	The project goal is to monitor and assess air quality conditions and their effects at the border crossing of BOTA, using	Initial Progress

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GOAL 1: – REDUCE AIR POLLUTION						
			BDuarte@nadb.org	Address indoor and outdoor air quality pollution sources.	personal and low-cost sensors that will measure PM2.5 emissions.	
Ysleta del Sur Pueblo (YDSP) Participation in a course on “Addressing Air Quality in Tribal Communities”	Northern Arizona University Institute for Tribal Environmental Professionals YDSP	No Cost	Barbra Valdivieso bvaldivieso@ydsp-nsn.gov	Raise awareness in Tribal Communities	Raise awareness in Tribal Communities by articulating tribes’ main air quality issues and identifying resources needed for them to address ambient air quality issues in their community.	Deliverable Achieved
Objective 4b: By 2025, implement at least two policy-based (e.g., multi-pollutant assessment, co-mitigation of short-lived climate pollutants, and Global Methane Initiative) or technology-based (e.g., renewable energy financing or other incentives) programs targeting specific pollutants or sectoral emissions of local concern						
Objective 4c: Implement additional emission reduction strategies consistent with applicable State Implementation Plans (SIPs) and PROAIREs						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
ProAire Subcommittee Meetings, Ciudad Juárez	State of Chihuahua, Secretariat for Urban Development and Ecology (SDUE) Mexico’s Secretariat of Environment and Natural Resources (SEMARNAT)	No Cost	Martha Erika Caballero Sanchez mcaballero@chihuahua.gob.mx	To review, update and sign off on ProAire Strategies and Measures for Ciudad Juárez. Meetings have been held Aug. 5, 15, and 25, 2022 to discuss strategies and measures for air quality improvement in Ciudad Juárez.	ProAire meetings will be held monthly. Update ProAire for state of Chihuahua.	Moderate Progress
Objective 5: By 2025, support update and/or completion of climate action plans in each of the six northern Mexican Border States (as appropriate) and build the necessary capacity to guarantee sustained implementation.						

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GOAL 2: IMPROVE WATER QUALITY						
Objective 1: Address Border Water Management in the Tijuana River Watershed. The EPA and SEMARNAT are to coordinate with specific federal, state, and local entities to plan and implement high priority infrastructure projects that address transboundary pollution affecting the Tijuana River watershed. <i>(Region 9 ONLY: N/A for Region 6)</i>						
Objective 1a: Carry out the planning, design, construction, and operation and maintenance of high priority treatment works in the Tijuana River Watershed. <i>(Region 9 ONLY: N/A for Region 6)</i>						
Objective 2: Improve Drinking Water and Wastewater Treatment Infrastructure. Ten drinking water and/or wastewater projects will be developed and certified by the NADB Board of Directors by 2025 under the Border Water Infrastructure Program						
Objective 2a: Increase access to safe drinking water and wastewater treatment in underserved communities.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Ciudad Juárez, Chihuahua – Wastewater Collection Rehabilitation	Region 6 Environmental Protection Agency (EPA) – Project Development Assistance Program (PDAP) North American Development Bank (NADBank) Junta Municipal de Aguas y Saneamiento (JMAS)	\$11,500,000	Gilbert Tellez Tellez.gilbert@epa.gov	Final design is complete and financial analysis is in progress. Address four major wastewater collectors in the Northwest area of Ciudad Juárez known to have wastewater discharges to the Rio Grande in the vicinity of El Paso, Texas.	Certify project and begin construction	Significant Progress
“Closing America’s Wastewater Gap” pilot project	Environmental Protection Agency (EPA) - Headquarters Office of Water and	In-kind	Salvador Gandara Gandara.salvador@epa.gov	Project will take place in Chaparral, New Mexico and will evaluate their existing conditions, provide community	Initial meetings with community	Initial Progress

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GOAL 2: IMPROVE WATER QUALITY						
	Region 6			outreach/education if necessary and provide the community with a roadmap/action plan that can identify alternatives to septic tanks, identify funding sources to implement the findings		
Objective 2b: Reduce discharges of untreated wastewater into the oceans and transboundary rivers such as those in the Tijuana River, New River, Santa Cruz River and the Rio Grande/Rio Bravo watersheds						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Storm Water Pollution Prevention Inspections for developing sites on tribal land in accordance with the National Pollution Discharge Elimination System.	Environmental Protection Agency (EPA) - Indian Environmental General Assistance Program (IGAP) Ysleta del Sur Pueblo (YDSP)	EPA Headquarters Office of Water and Region 6 In-kind	Barbra Valdivieso bvaldivieso@ydsp-nsn.gov	Inspections for pollution prevention conducted monthly for ongoing construction activities on tribal land to prevent the discharge of pollutants into nearby U.S. or Tribal waters.	Maintain effective pollution prevention measures to minimize the discharge of pollutants into nearby waters of the U.S. and Tribe.	Moderate Progress
Objective 3: Improve O&M of Drinking Water and Wastewater Infrastructure.						
Objective 3a: Ensure that infrastructure projects funded by the U.S. or Mexico have adequate O&M reserves and long-term planning.						
Objective 3b: Build capacity at water utilities through training and programs that improve the following: Asset management; Wastewater pretreatment (treatment of industrial wastewater discharged to a public wastewater treatment plant); Operational, managerial, and financial management.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Sunland Park, New Mexico – Asset Management	Region 6 Environmental Protection Agency (EPA) – Project Development	\$135,000	Gilbert Tellez Tellez.gilbert@epa.gov	Development, analysis and purchase of asset management software. This software is a database that keeps track of water and wastewater assets	Utility implementation of the asset management software by 2023.	Significant Progress

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	Assistance Program (PDAP) North American Development Bank (NADBank) Camino Real Regional Utility Authority (CRUUA)			(tracks capital improvement, tracks existing equipment, material, and others). This planning tool will increase the efficiency of management of the utility.		
American Rescue Plan Act Financial, Operational, Technical and Managerial Training	Environmental Protection Agency (EPA) North American Development Bank (NADBank) Community of Tornillo, Texas	\$75,000	Gilbert Tellez Tellez.gilbert@epa.gov	Support Tornillo, Texas, in identifying, addressing aging infrastructure, regulatory requirements, user fees/rates, utility financial audits, utility technical training and Capital Improvement Plan development.	Development of workplan	Initial Progress
<p>Objective 4: Promote beneficial reuse of treated wastewater and conservation of water and energy. 100% of Border Water Infrastructure Program projects selected for development will include an assessment of water reuse opportunities, if appropriate by 2025.</p>						
<p><i>Objective 4a: Assess opportunities to fund wastewater reuse projects through the infrastructure program, complying with current regulations.</i></p>						
<p><i>Objective 4b: Develop at least one wastewater reuse pilot project, or one utility-driven water/energy audit.</i></p>						
<p>Objective 5: Implement projects to prevent and reduce the levels of trash and sediment from entering high priority binational watersheds. Projects that prevent/reduce marine litter should primarily focus on preventing waste at the source through improvements to solid waste management systems, education campaigns, and monitoring as well as reducing trash from entering the aquatic environment through the capture of litter using river booms in known watershed litter hot spots. Funding sources are intended for at least one project in Tijuana River, New River, Rio Grande, and Santa Cruz River watersheds will be implemented to address trash or sediment by 2025.</p>						

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GOAL 2: IMPROVE WATER QUALITY						
Objective 6: Improve access to transboundary water quality data.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
First Binational Water Summit	<p style="text-align: center;">Junta Municipal de Agua y Saneamiento (JMAS)</p> <p style="text-align: center;">Ciudad Juárez</p>	In-kind by organizers	<p>Manuel Herrera</p> <p>jmherrera@jmasjuarez.gob.mx</p>	<p>To promote water sustainability between Mexico and the U.S. in the Paso del Norte Region.</p> <p>Summit held on September 22 and 23, 2022.</p>	<p>Increase knowledge on water sustainability in the Paso del Norte Region.</p> <p>Presentation topics: viability and climate change: drought, over exploited aquifers, industrial and agricultural sustainability, access to safe and clean drinking water: a human right, binational mechanisms, 1944 water treaty and climate change, cooperation agreements, binational agreements for water sustainability.</p>	Deliverable Achieved
<p>Objective 6a: <i>Ensure sewage spill notification protocols are in place for all communities affected by transboundary flows of untreated sewage. A sewage runoff model will be developed for Tijuana by 2021. Spill notification protocols will be developed in three high priority watersheds by 2025.</i></p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Binational Notification Process for Sunland Park, New Mexico – Ciudad Juárez, Chihuahua in the event of transboundary sewage spill	<p style="text-align: center;">U.S. International Boundary and Water Commission US section (IBWC) and Mexican section (CILA)</p> <p style="text-align: center;">Environmental Protection Agency (EPA)</p>	No Cost	<p>Gilbert Anaya</p> <p>gilbert.anaya@ibwc.gov</p> <p>Carlos Rincon</p> <p>Rincon.carlos@epa.gov</p>	<ul style="list-style-type: none"> • To notify and address on both sides of the border any wastewater spill events. • From May 2021 to May 2022, there have been approximately seven notifications, of which one notification included the State of Texas. 	Update spill notification contact list in 2022.	Moderate Progress

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GOAL 2: IMPROVE WATER QUALITY						
	Camino Real Regional Utility Authority (CRUUA) New Mexico Environment Department (NMED) Junta Municipal de Agua y Saneamiento (JMAS) Comisión Nacional del Agua (CONAGUA) U.S. Customs			<ul style="list-style-type: none"> In 2021 the spill notification contact list was updated 		
<p>Objective 6b: Increase awareness of beach contamination from marine debris and untreated sewage through modeling, monitoring (should focus on sources and types of marine debris) and special studies.</p>						
<p>Objective 6c: Ensure that U.S. Section of the International Boundary and Water Commission (IBWC) website displays timely information on water quality in high-priority watersheds including the Lower Rio Grande/Bravo, the New River, the Santa Cruz River and the Tijuana River</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
International Boundary and Water Commission (IBWC) Water Data Portal	IBWC	Part of IBWC Budget	Gilbert Anaya gilbert.anaya@ibwc.gov	IBWC maintains website: https://waterdata.ibwc.gov/ This will be ongoing throughout Border 2025 Program	Continue with data on website and to update the public IBWC hopes to add the discreet water sample data collected by the Texas Clean Rivers program for the Rio Grande basin. Also on the Rio Grande, there are some near-real time conductivity	Moderate Progress

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					sensors run by Mexican section of the IBWC that will be turned back on.
<p>Objective 6d: Continue the work of the binational water quality improvement plan as part of the Lower Rio Grande Water Quality Initiative in the Lower Rio Grande below Falcon International Dam. (N/A to 3 state region.)</p>					

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GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES						
Objective 1: By 2025, share information and experiences on sustainable materials management and resource efficiency practices with local and state-level institutions, tribal governments, and indigenous and Afro-Mexican communities.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Bill for the Prevention and Integrated Waste Management in the State of Chihuahua	State of Chihuahua, legislative and executive branch Ciudad Juárez	No cost anticipated Legislative and Executive Office of State of Chihuahua	Francisco Gomez Licón francisco.gomez@chihuahua.gob.mx Luisa Mariñelarena luisa.marinelarena@chihuahua.gob.mx Carlos Rincon Rincon.carlos@epa.gov	A legislative bill proposal that would allow matching federal funds from Ramo 16, Federal Appropriation line item to finance annually actions from collection fees possible at each of the three states of the region.	Draft language for the legal statute is completed and is being reviewed by several offices within the state before it goes to the state congress for approval. Anticipated publication of law is December 2023.	Significant Progress
Waste Task Force Meeting	Environmental Protection Agency (EPA) Mexico's Secretariat of Environment and Natural Resources (SEMARNAT)	EPA SEMARNAT North American Development Bank (NADBank) Colegio de Chihuahua	Cristina Viesca cristinav@epcounty.com Nestor Acosta Acosta.ambiental@gmail.com	Planned presentations: <ul style="list-style-type: none"> • Co-processing of waste tires in a cement kiln, Grupo Cementos de Chihuahua • Frontiers without Tires, Employers Confederation of the Mexican Republic (COPARMEX) • Urban waste management at the border: Case of the Ojinaga landfill, Chihuahua, State of Chihuahua, Secretariat for Urban Development and Ecology 	This meeting was held on October 21, 2022 and was attended by 50 people, 24 in person and 26 via Zoom from various levels of the U.S. and Mexican governments, academia and non-governmental organizations. Presentations included information on waste regulation in Mexico, tire reuse projects, strategies for circular economies and a case study of a landfill in Ojinaga, Chihuahua.	Deliverable Achieved

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GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES

Objective 2: Identify priority waste streams and develop sustainable materials management and resource efficiency practices that strengthen their respective market value.

Integrated Waste Management Plan for the Landfill of the Municipality of Ciudad Juárez, Chihuahua	Public Works Department, Ciudad Juárez	\$78,500 Border 2025 funded project	Gibran Alhe Solis Kanahan dgsp.dl_direccion@juarez.gob.mx	Conduct assessment of the current waste management at the landfill site. Identify available technologies suitable to implement at the landfill.	Improve material reuse, recycle and recovery efforts to work towards a circular economy that will minimize environmental impacts. Formalize the Waste Management Plan for the landfill in Ciudad Juárez.	Initial Progress

Objective 2a: Identify and measure priority waste streams by 2022

Objective 2b. Develop strategies or trainings to reduce illegal dumping, maximize material recovery, and promote environmentally sound disposal practices by 2025.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Sustainable utilization of biosolids through compost in Ciudad Juárez, Chihuahua	Junta Municipal de Agua y Saneamiento (JMAS) de Ciudad Juárez Universidad Autónoma de Ciudad Juárez (UACJ)	\$60,460 Border 2020 funded project	Francisco J. Nunez Sanchez fnunez@imasjuarez.gob.mx Dr. Juan Pedro Flores Margez juflores@uacj.mx	Implement a sustainable program for the use of biosolid waste as a fertilizer, activating a composting process.	The project team prepared composts of different sizes with various sludge to organic mulch content. Over 200 cubic meters of suitable quality compost were prepared and used for planting trees in local parks as well as local and rural areas within the Ciudad Juárez – El Paso border region. This project was broadcasted through news outlets on July	Deliverable Achieved

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GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES						
					23, 2021	
Community Recycling in Ciudad Juárez	Ecology Department of Ciudad Juárez	In-kind	César René Díaz Gutiérrez crdiagut@hotmail.com	To promote material recycling and reuse	Waste collection event was held October 2022. Collected items included 30 tons of e-waste, 200 liters of motor engine oil, 200 liters of vegetable oil, 2,500 tires, 5 tons cardboard and paper and 2 tons of plastic waste.	Deliverable Achieved
Objective 3: By 2025, improve knowledge at every level of government (federal, state, local) to improve solid waste disposal site operations						
<i>Objective 3a: By 2023, identify strategies to reduce illegal dumping and promote clean sites.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Redefining Scrap Tire Borderwide Binational Webinar	Texas Commission on Environmental Quality (TCEQ) Environmental Protection Agency (EPA)	TCEQ EPA	Eddie Moderow Eddie.Moderow@tceq.texas.gov	To raise awareness and share success stories on scrap tire reuse along the U.S. and Mexico border. Increase knowledge on rethinking scrap tires as a resource and sustainable end of life uses.	<ul style="list-style-type: none"> Binational webinar was held August 26, 2022 Presenters included EPA, TCEQ, City of Laredo, Ciudad Juárez Employers Confederation of the Mexican Republic (COPARMEX), City of Nuevo Laredo, City of Guadalajara and City of Houston There were approximately 90 webinar attendees. 	Deliverable Achieved
Conduct a tire- recycling event for the Tribal	Ysleta Del Sur Pueblo (YSDP)	YDSP	Barbra Valdivieso bvaldivieso@ydsp-nsn.gov	Increase understanding on how IGAP funds can be used to	Assess Tribal community interest in recycling	Initial Progress

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GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES						
community.	Environmental Protection Agency (EPA) - Indian Environmental General Assistance Program (IGAP)	IGAP		address contaminated sites on Tribal lands.		
Objective 3b: <i>By 2025, identify strategies to reduce landfill fires.</i>						
Objective 4: Prevent and Reduce Pollution in the Marine Environment. Not Relevant to 3state Region						
Objective 4a: <i>Promote solutions that involve identifying hotspots of litter accumulation in and around waterways, especially in shared watersheds, and build capacity for improving waste management systems and preventing leakage where necessary.</i>						
Objective 5: On an annual basis, implement the Binational Consultative Mechanism on sharing information on border area hazardous waste facilities, spent lead acid battery and electronics recycling facilities.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Binational Consultative Mechanism (CM)	Environmental Protection Agency (EPA) Mexico's Secretariat of Environment and Natural Resources (SEMARNAT)	In-kind from EPA and SEMARNAT	Stephanie Adrian Adrian.Stephanie@epa.gov	Collect and share information on the hazardous waste facilities, spend lead-acid batter (SLAB) recyclers and electronic waste recyclers that lie 100km on both sides of the border.	<ul style="list-style-type: none"> • Draft of CM Facilities was received from Texas and New Mexico on July 13, 2022. • Updates from the US Facilities were provided to SEMARNAT on October 11, 2022. • Awaiting updates from SEMARNAT for Chihuahua 	Moderate Progress

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES

Objective 1: Update the Joint Mexico-United States Contingency Plan (JCP) and evaluate the emergency notification system along the border of Mexico and the United States.

Objective 1a: *In 2021, the JCP notification system should be reviewed and updated to assess its operability and incorporate possible protocol changes and new technological developments.*

Objective 1b: *By the year 2022, a revised and updated version of the JCP will be finalized, including any changes and / or modifications of the participating parties (names, affiliations, etc.) of the governmental structure of both countries.*

Objective 1c: *As part of the evaluation of the operability of the JCP notification system, each country should conduct at least 40 annual chemical emergency notification drills through the National Center of Communication (CENACOM) in Mexico, and the National Response Center (NRC) in the United States.*

Objective 2: Review, update and evaluate the Sister City Joint Contingency Plans (SCJCPs).

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Review and update Sister City Communication contacts	City of El Paso Sunland Park Ciudad Juárez Doña Ana County Ysleta del Sur Pueblo (YSDP) Emergency Response personnel	No cost	U.S. and Mexican co-leaders for Emergency Response Task Force	Update tri-National sister city communication contacts	<ul style="list-style-type: none"> • The sister city stakeholders met to discuss sister city plan updates and emergency response communication protocols on: <ul style="list-style-type: none"> ○ Jul. 20, 2021 ○ Aug. 24, 2021 ○ Feb. 1, 2022 • In April 2022 and January 2023 contact list was updated. • Communication contacts will be updated annually. 	Moderate Progress

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES

Objective 2a: By 2021, a study of the 15 SCJCPs should be completed utilizing existing risk analysis data. This study must consider, among other aspects, the SCJCP's content and scope.

Objective 2b: By the year 2022, a joint study should be carried out in the border region aimed at adjusting the number of Border Sister Cities that are members of the JCP.

Objective 2c: Based on the results of the sister city JCP Study, the updated SCJCP's must be promoted to the corresponding stakeholders (Regional Groups, NADB, etc.) during the Border 2025 Environmental Program. The actions carried out in this objective will be aimed at achieving the update of the 15 SCJCP's between 2020 to 2025.

Objective 2d: In order to evaluate the SCJCP, each country must conduct at least three annual field drills in the Sister Cities located in the Mexico - United States border region, ensuring a joint response is carried out. Prior to conducting the drills, the participating staff must be trained through the delivery of binational seminars

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Bi-National Exercises (Test notification of sister-city plans, tabletop or full-scale exercise)	Federal Attorney of Environmental Protection (PROFEPA)	In-kind	Lilia Aide Gonzalez Bermudez lilia.gonzalez@profepa.gob.mx	<ul style="list-style-type: none"> • Due to COVID binational drills were done virtually. • PROFEPA Bi-National notification to test notification protocol • July 2021 conducted 1 notification for Ciudad Juárez. 	Continue exercises in person for July 2023	Deliverable Achieved
Binational Emergency Response Exercise, Ciudad Juárez, Electrolux	Federal Attorney of Environmental Protection (PROFEPA)	In-kind	Lilia Aide Gonzalez Bermudez lilia.gonzalez@profepa.gob.mx	PROFEPA binational emergency response field exercise drill	<ul style="list-style-type: none"> • In July 2022 conducted 2 notifications, one in Ciudad Juárez, one in Ojinaga. • On July 8, 2022, a field drill exercise was conducted in Ciudad Juárez, Electrolux to stimulate the spill of cyclopentane leading to a fire. 	Deliverable Achieved

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
					<ul style="list-style-type: none"> Approximately 150 participants played a role in the planning and execution of the exercise. 	
Binational Emergency Response Table-top Exercise, Presidio, TX.	Texas Department of Emergency Management (TDEM) City and County of Presidio	In-kind	Al Talavera al.talavera@tdem.texas.gov <u>v</u>	Binational emergency response table-top exercise for the simulation of diesel fuel spill Three planning meetings were held for the table-top exercise on April 5, May 5, and July 7, 2022.	Table-top exercise was conducted September 13, 2022. Participating agencies: <ul style="list-style-type: none"> Environmental Protection Agency (EPA) Customs and Border Protection Texas Parks and Wildlife Texas Commission on Environmental Quality (TCEQ) International Boundary and Water Commission (IBWC) Ojinaga Volunteer Fire Department 	Deliverable Achieved
Objective 3: Strengthen the training of emergency response personnel through the development of in-person or online training courses by creating a certificate of skills recognized by corresponding authorities. Additionally, develop and disseminate technical support material to help inform the public in case of emergency.						
<i>Objective 3a: In coordination with the Regions, a Sister City Training Program should be developed during the year 2021 and implemented throughout the Border 2025 program. The Training Program should focus on course offerings that result in certifications to enhance the competency of emergency responders.</i>						
<i>Objective 3b: At least three annual seminars, workshops and/or coordinated courses should be conducted between the two countries on topics including chemical substances, risk and consequences analysis, and emergency management.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
Hazardous Material Spill Mitigation Project	Emergency Response Task Force in El Paso/ Cd. Juárez/ Sunland Park/Ysleta del Sur Pueblo	\$22,370 Border 2020 funded project	Briselda Duarte bduarte@nadb.org	Build capability, strengthen relationships, and establish mutual aid agreements among emergency responders in the Paso del Norte Region for the mitigation of uncontrolled chemical leaks from transportation vessels through training and equipment purchase.	<ul style="list-style-type: none"> • Magnaseals equipment was purchased for the El Paso and Ciudad Juárez fire departments. • One binational tabletop exercise in Nov. 2020 was carried out with 27 first responders. • Three binational functional exercises in May 2021 were conducted with 77 emergency responders, utilizing the Magnaseals. 	Deliverable Achieved
OSHA HAZWOPER 24-HR – virtual	U.S. and Mexican Emergency Responders Customs and Border Protection Federal Attorney of Environmental Protection (PROFEPA)	\$60,000 Environmental Protection Agency (EPA) Region 6 Superfund	Pratistha Adams adams.pratistha@epa.gov Nabil Mzee mzee.nabil@epa.gov	To increase knowledge on HAZWOPER, Hazardous Waste Operations and Emergency Response standard protocols.	<ul style="list-style-type: none"> • English training held October 19-20, 2021 (40 participants) • Two Spanish trainings were offered on Sept. 28-30, 2021, and Oct. 26-28, 2021, each with approximately 140 and 120 participants, respectively. 	Deliverable Achieved
OSHA HAZWOPER 16-HR – field	Emergency responders from Presidio, Texas, Ciudad Juárez and Ojinaga, Chihuahua	\$35,000 Environmental Protection Agency (EPA) Region 6 Superfund	Pratistha Adams adams.pratistha@epa.gov Nabil Mzee mzee.nabil@epa.gov	To increase knowledge in hands-on HAZWOPER, Hazardous Waste Operations and Emergency Response standard protocols and equipment uses.	<p>Two trainings were conducted in 2022:</p> <ul style="list-style-type: none"> • Santa Teresa, New Mexico (March 7 – 8) with 10 emergency responders from Ciudad Juárez • Presidio, Texas (March 10 – 	Deliverable Achieved

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
					11) with seven responders from Presidio and 12 emergency responders from Ojinaga	
Radiological Incidents and Terrorism – online Spanish course	Mexican emergency responders	Environmental Protection Agency (EPA) Region 6 children’s health program Southwest Center for Pediatric Environmental Health – El Paso	Ginny Vietti vietti.virginia@epa.gov	Increase first responders’ knowledge on radiological incidents and terrorism	On January 12, 2022, approximately 33 Mexican responders attended training on Radiological Incidents and Terrorism.	Deliverable Achieved
Objective 3c: <i>In order to complement the training opportunities, audiovisual material and online courses focused on prevention and response to chemical emergencies should be made available at the border.</i>						
Objective 4: Design and implement the guidelines and protocols to ensure rapid, safe, and legal passage of personnel and materials across the Mexico – United States border in emergency response situations						
Objective 4a: <i>By 2021, an action plan should be developed to address respective liability coverage of each country to facilitate the movement of people and materials across the border during drills or emergency events.</i>						
Objective 4b: <i>By 2022, each country should complete a report on the status of transboundary movement of human and material resources during emergencies, as well as the current and future actions that are being carried out.</i>						

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GUIDING PRINCIPLES AND CROSS CUTTING MEDIAS						
<i>Environmental Justice</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Environmental Justice Townhall meetings	Environmental Protection Agency (EPA)- El Paso Border Office & EPA Region 6 Environmental Justice Program	In-kind	Carlos Rincon, rincon.carlos@epa.gov	To meet with Colonia residents in Sunland Park, New Mexico and hold a listening session about their environmental concerns and priorities	First meeting was held on October 5, 2022, with approximately 30 community residents from Sunland Park and Anapra, New Mexico as well as El Paso and San Elizario, Texas. Participating community organizations: Empowerment Congress of Sunland Park, New Mexico as well as A.Y.U.D.A. Inc. and Familias Triunfadoras of San Elizario, Texas.	Deliverable Achieved
<i>Air quality and asthma actions</i>						
<i>Integrated pest management and pesticide exposure actions</i>						
<i>Multi-topic environmental health actions (IPM, IAQ, vector-borne, asthma-related, children's health, Healthy Homes, etc.)</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Monthly Pediatric Environmental Health Grand Rounds	Southwest Center for Pediatric Environmental Health - El Paso	In-kind	Ginny Vietti vietti.virginia@epa.gov	Monthly virtual Grand Rounds training sessions on various children's environmental health topics.	In person or virtual workshops	Moderate Progress

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				Target audience is all involved in pediatric health care, childcare, community health workers, etc.		
Outreach for Healthy Learning Environments in El Paso, TX	UTHealth Houston School of Public Health at El Paso Campus Southwest Center for Pediatric Environmental Health – El Paso	\$200,000 Children’s Environmental Health	Ginny Vietti vietti.virginia@epa.gov	Train staff to conduct Healthy Learning Environment checklist with schools. Increase knowledge and awareness of air and water pollution risks at schools, increased technical support for schools.	In person or virtual technical support	Initial Progress
Lead poisoning prevention actions						
Cross Media Efforts for Border 2025 Outreach						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Our Water, Our Future: Proyecto Transfronterizo del Cuidado del Agua	Patronato del Museo del Niño de Ciudad Juárez, A.C.	\$61,041 Border 2020 funded project	Karen Alamo Karen.alamo@larodadora.org	<ul style="list-style-type: none"> • Enable social awareness and commitment to improve sanitation practices and water efficiency through virtual trainings. • Identify and analyze main water usage in the agricultural, urban and industrial areas. • Engage youth through interactive exhibits by building and expanding the learning modules at the museum for “Our Water, Our Future.” 	Approximately 85 public schools were targeted for educational workshops with a total participation of 547 students The exhibit was visited in person by approximate ~50,000 people. All the information shared via social media outlets received over 2.5 million views.	Deliverable Achieved
Environmental Education local stakeholder roundtable	State of Chihuahua, Secretariat for Urban Development and Ecology (SDUE)	No Cost	Dra. Sarai Favela sarai.sdue.favela@gmail.com	Update local stakeholders on ongoing and upcoming activities in Ciudad Juárez.	In Fall 2022 during a second meeting will continue discussion of the initiative on Environmental Education for	Moderate Progress

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discussions in Ciudad Juárez				On July 14, 2022, an Environmental Education meeting for local stakeholders was held to discuss ongoing/upcoming projects and hold roundtable sessions.	Ciudad Juárez.	
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