



California-Baja California 2015-2016 Border 2020 Action Plan



California-Baja California 2020 Master Action Plan – 2015-2016
Goal 1 – Reduce Air Pollution

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
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Objective 1: By 2020, in accordance with the NAFTA, promote the reduction of the number of vehicles operating in the border region that do not comply with respecti ve vehicle emissions standards, and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible reduction measures.

Vehicle Idling Emissions Assessment at Calexico East and West Ports of Entry.	<ul style="list-style-type: none"> Imperial County Air Pollution Control District (ICAPCD) Border Environment Cooperation Commission (BECC), Environmental Protection Agency (EPA) 	\$99,000	<ul style="list-style-type: none"> EPA 	Belen Leon- ICAPCD (belenleon@co.imperial.ca.us)	Anticipated Results: Quantification of PM and NOx emissions from idling vehicles and identification of potential emissions reduction strategies.
Implement State Vehicle inspection program (smog check) in Baja California.	<ul style="list-style-type: none"> Secretaría de Protección al Ambiente (SPA) 	Staff time	<ul style="list-style-type: none"> SPA 	Saul Guzman- SPA (saul.guzman@semarnat.gob.mx)	Anticipated Results: Number of vehicles that have been inspected.

Objective 2: By 2020, reduce pollutant emissions in order to approach attainment of respective national ambient air quality standards in the following airsheds: San Diego/Tijuana, Imperial County/Mexicali, Ambos Nogales, Paso del Norte (El Paso/Juarez/Sunland Park)

Media Outreach Campaign in Mexicali and Imperial County to reduce open burning and fireworks during holiday season.	<ul style="list-style-type: none"> ICAPCD Imperial-Mexicali Air Quality Task Force SPA 	\$40,000	<ul style="list-style-type: none"> EPA ICAPCD 	Belen Leon- ICAPCD (belenleon@co.imperial.ca.us)	Anticipated Results: TV and radio spots encouraging the public to reduce open burning and use of fireworks.
Develop a PM2.5 State Implementation Plan (SIP) for Imperial County.	<ul style="list-style-type: none"> Imperial County Air Pollution Control District, EPA California Air Resources Board (CARB) 	Staff time	<ul style="list-style-type: none"> Participating Agencies 	TBD	Anticipated Results: Complete PM2.5 State Implementation Plan (SIP) to reduce PM2.5 emissions in Imperial County.



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Carl Moyer Program and Goods Movement Emission Reduction Program—reduce emissions from mobile sources.	<ul style="list-style-type: none"> • San Diego Air Pollution Control District (SDAPCD) • California Air Resources Board (CARB) 	12,000,000 (available)	<ul style="list-style-type: none"> • CARB 	Andy Hamilton - SDAPCD (Andy.Hamilton@sdcounty.ca.gov)	Anticipated Results: The number of trucks receiving funding in San Diego County that will reduce PM and NOx from voluntary emission reductions from heavy-duty diesel engines.
Technical Program Evaluation and Tracking of Agricultural Burning in Mexicali Valley – Phase 2.	<ul style="list-style-type: none"> • Secretaría del Medio Ambiente y Recursos Naturales (SEMARNAT) • SPA 	\$100,000	<ul style="list-style-type: none"> • SEMARNAT 	Alfonso Blancafort-SEMARNAT (alfonso.blancafort@semarnat.gob.mx)	Anticipated Results: Reduce dust emissions generated by traffic on dirt roads and the effect on school children.
Create a system of Green Spaces in the Municipality of Mexicali, Baja California.	<ul style="list-style-type: none"> • SEMARNAT • SPA 	\$260,000	<ul style="list-style-type: none"> • SEMARNAT 	Alfonso Blancafort-SEMARNAT (alfonso.blancafort@semarnat.gob.mx)	Anticipated Results: (1) Rehabilitation and tree planting of 3,500 square meters in a Parque de Barrio in the western part of the city. (2) Rehabilitation and forestation of 1,500 square meters in Jardín Vecinal in the west of the city. (3) Creation of 600 linear meters Camellón Central in the west of the city, with an approximate area of 8,400 square meters.



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Implement soil conservation and erosion control practices in Mexicali, B.C.	<ul style="list-style-type: none"> • SEMARNAT • SPA 	\$190,000	<ul style="list-style-type: none"> • SEMARNAT 	Alfonso Blancafort-SEMARNAT alfonso.blancafort@semarnat.gob.mx	Anticipated Results: Reduce dust emissions generated by traffic on dirt roads and the effect on school children.
Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to air quality data: California/Baja California, Arizona/Sonora, Paso del Norte Airshed, and any additional binational airshed that is designed as non-attainment for U.S. or Mexican air quality Standards prior to 2015.					
Operate and Maintain the Imperial County Air Quality Monitoring Network.	<ul style="list-style-type: none"> • ICAPCD • CARB 	Staff time and maintenance costs	<ul style="list-style-type: none"> • ICAPCD • EPA • CARB 	Brad Poiriez- ICAPCD bradpoiriez@co.imperial.ca.us Monica Soucier- ICAPCD monicasoucier@co.imperial.ca.us	Anticipated Results: Effective operation of air monitoring stations and post real-time air monitoring data on web.
Maintain the real-time reporting website for Imperial County air quality monitoring network.	<ul style="list-style-type: none"> • CARB • EPA • ICAPCD 	Staff time and maintenance costs	<ul style="list-style-type: none"> • EPA 	Elizabeth Melgoza-CARB Elizabeth.melgoza@arb.ca.gov	Anticipated Results: Real time reporting and forecasting of air quality in Imperial County.
Implement the Monitoring Action Plan to more effectively operate and maintain the air quality monitoring network in northern Baja California.	<ul style="list-style-type: none"> • EPA • SPA, SEMARNAT • CARB • Instituto Nacional de Ecología y Cambio Climático (INECC) 	Staff time and maintenance costs	<ul style="list-style-type: none"> • EPA • SPA • SEMARNAT • INECC 	Saul Guzman- SPA saul.guzman@semarnat.gob.mx	Anticipated Results: Implementation of binational air monitoring action plan and collection of reliable and accurate air monitoring data.
Operate and maintain the San Diego Air Quality Monitoring Network.	<ul style="list-style-type: none"> • SDAPCD 	Staff time and maintenance costs	<ul style="list-style-type: none"> • SDAPCD 	Bill Brick, SDAPCD Bill.Brick@sdcounty.ca.gov	Anticipated Results: Effective operation of air monitoring stations and post real-time air monitoring data on web.



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Operate and maintain PM2.5 air quality monitor at the San Ysidro Port of Entry through January 2017.	<ul style="list-style-type: none"> • SDAPCD • EPA 	Staff time	<ul style="list-style-type: none"> • SDAPCD • EPA 	Bill Brick, SDAPCD Bill.Brick@sdcounty.ca.gov	Anticipated Results: Effective operation of air monitoring stations and post real-time air monitoring data on web.
Install and operate PM2.5 air quality monitors at two locations in Mexicali for a period of two years.	<ul style="list-style-type: none"> • CARB • EPA • SPA 	Staff time and maintenance costs	<ul style="list-style-type: none"> • CARB • EPA 	Fernando Amador, CARB, fernando.amador@arb.ca.gov	Anticipated Results: Effective operation of air monitoring stations.
Implement Imperial Valley Child Asthma Program (IVCAP) - Healthy Breathing Healthy Homes to work with families and physicians to promote education on indoor air and asthma triggers in the home <i>(also included in Environmental Health)</i> .	<ul style="list-style-type: none"> • EPA , • Imperial Valley Children's Action Program (IVCAP) • El Centro Regional Medical Center (ECRMC), • R9 Pediatric Environmental Health Specialty Units (PEHSU) 	Staff time	<ul style="list-style-type: none"> • EPA 	Priyanka Pathak-EPA pathak.priyanka@epa.gov	Anticipated Results: Number of families and physicians trained; improved asthma trigger management.
Consolidation of the air quality monitoring network in Baja California – first stage.	<ul style="list-style-type: none"> • SEMARNAT • SPA 	\$393,000	<ul style="list-style-type: none"> • SEMARNAT 	Alfonso Blancafort-SEMARNAT alfonso.blancafort@semarnat.gob.mx	Anticipated Results Rehabilitate and/or replace monitoring stations.



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Objective 4: By 2015, support 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.

Baja California Climate Change Action Plan-Mitigation Cost Benefit Analysis (Phase II)	<ul style="list-style-type: none"> • SPA • BECC • INECC 	\$275,000	<ul style="list-style-type: none"> • BECC 	Tomas Balarezo- BECC (tbalarezo@cocef.org)	Anticipated Results: Complete Phase II Climate Change Action Plan Final Report.
Implement “Climate Change Adaptation: Atlas of Risks.”	<ul style="list-style-type: none"> • SEMARNAT • SPA 	\$235,000	<ul style="list-style-type: none"> • SEMARNAT 	Alfonso Blancofort-SEMARNAT (alfonso.blancafort@semarnat.gob.mx)	Anticipated Results: TBD.

Improve energy efficiency of the public lighting system in Playas de Rosarito. Increase and improve street paving coverage and roadway city infrastructure.	<ul style="list-style-type: none"> • North American Development Bank (NADB) • BECC • Comisión Estatal de Servicios Públicos de Tijuana (CESPT) • Municipality of Playas de Rosarito 	\$ 20.37 M (Pesos)	<ul style="list-style-type: none"> • NADB, • Federal Government of Mexico 	Jesica Hernandez - BECC (jahernandez@cocef.org)	Anticipated Results: Replacement of street lamps to LED, reduce electricity consumption.
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Objective 5: By 2020, reduce emissions and associated impacts through energy efficiency and/or alternative/renewable energy projects.



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California-Baja California 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Objective 1: Promote the increase in the number of homes connected to safe drinking water and adequate wastewater treatment.					
Sub-objective 1a: By end of 2016, promote access to safe drinking water to at least 2,200 households border-wide. Revise targets every two years.					
Sub-objective 1b: By end of 2016, promote access to adequate wastewater sanitation to 40,700 households border-wide. Revise targets every two years.					
Objective 2: Help drinking water and wastewater utilities in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.					
Sub-objective 2a: Incorporate sustainable infrastructure elements, as feasible and appropriate, into U.S.-Mexico Border Water Infrastructure Program-supported in BECC-certified projects.					
Sustainable infrastructure components will be incorporated into two projects based on the results from water/energy audits.	EPA, Comisión Nacional del Agua (CONAGUA), Border Environment Cooperation Commission (BECC)	TBD	Local, state and federal partners	Hector Aguirre- US EPA (aguirre.hector@epa.gov)	Anticipated Results: EPA Region 9 will incorporate sustainable infrastructure components in Holtville, California, such as variable speed pumps.
Sub-objective 2b: Improve energy efficiency and efficient water use at border drinking water and wastewater utilities.					
Technical Assistance to gather field measurements for the Tijuana-Tecate Aqueduct to determine pump efficiency.	BECC/NADB and CEA	\$100,000	NADB/BECC Technical Assistance Program	Jesica Hernandez - BECC (jahernandez@cocef.org)	Anticipated Results: Field measurements are compiled to help identify opportunities for energy savings via pump replacement.



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Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<i>Sub-objective 2c: Build operational, managerial, and financial capacity at border drinking water and wastewater utilities through training.</i>					
20 hour seminar (theory and practice) at Utility Management Institute certified by Centro de Estudios de Agua (CDA). Location: Tecate, Baja California, México.	NADB/BECC, TEC de Monterrey, CDA	\$20,000	NADB/UMI	Jorge Silva / Alessandra Garcia – (NADB agarcia@nadb.org)	Anticipated Results: Train 25 participants from all Municipalities in Baja California on utility management.
<i>Objective 3: Work binationally to identify and reduce surface water contamination in specific high priority water bodies or watersheds.</i>					
<i>Sub-objective 3a: Develop a binational watershed protection plan in the Lower Rio Grande below Falcon International Dam.</i>					
<i>Sub-objective 3b: Every two years, identify and implement at least one project to reduce the level of heavy metals, sediment, and/or bacteria entering the Santa Cruz River and/or the Nogales Creek.</i>					
<i>Sub-objective 3c: Every two years identify and implement at least one project to reduce the levels of bacteria, biochemical oxygen demand (BOD), trash, and/or phosphates entering the New River.</i>					
Implement program to cleanup and prevent clandestine dumps feeding the New River.	EPA, BECC, Sonoran Institute	\$65,000	EPA/BECC	Emily Pimentel, EPA, (pimentel.emily@epa.gov)	Anticipated Results: cleanup trash from 30,000 m ² of land adjacent to agricultural drains feeding the New River in Mexicali. Educate members of community on the problem and establish a model for prevention of future contamination.



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Goal 2 – Improve Access to Clean and Safe Water**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Mexicali wastewater infrastructure rehabilitation in Colonias Loma Linda and Esperanza to reduce spills to the New River.	EPA, BECC, NADB, CONAGUA, CESPM	\$1.4M (total project cost)	EPA, NADB, CONAGUA, CEPSPM	Hector Aguirre, EPA (aguirre.hector@epa.gov)	Anticipated Results: Project will be completed resulting in decreased spills to the New River.
Repairs to Mexicali pump stations 3 and 4 and wet well repairs to reduce untreated discharges to the New River.	CESPM, CONAGUA	\$2.5M	CESPM, CONAGUA	Christian Manjarrez , CESPM, (cmanjarrez@cespm.gob.mx)	Anticipated results: Series of repairs to pump stations and wet-well, with pump-around to prevent discharges to the New River.
Mexicali wastewater infrastructure diagnostic study.	EPA/NADB	TBD	EPA	Hector Aguirre, EPA (aguirre.hector@epa.gov)	Anticipated Results: Diagnostic study identifying O&M issues and prioritizing infrastructure repairs to reduce untreated discharges to the New River.

Sub-objective 3d: Every two years identify and implement at least one project to reduce the level of bacteria, sediment, and/or trash that enters the Tijuana River.

Remove and properly dispose of trash from Smuggler’s Gulch and the pilot channel of the Tijuana River in the U.S. Engage volunteers and community members.	City of San Diego	\$50,000	City of San Diego	David Wells, City of San Diego (dwells@saniego.gov)	Anticipated Results: Trash removed from Smuggler’s Gulch and the pilot channel. Mass or Volume TBD.
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Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Prepare initial Tijuana River Valley wide hydrology and hydraulics (H&H) study scoping, data identification, assessment of data gaps from previous studies, and acquisition of LiDAR.	City of San Diego, USACoE	\$100,000	City of San Diego	David Wells, City of San Diego (dwells@sandiego.gov)	Anticipated Results: LiDAR (digital elevation) data facilitating more accurate modeling and analysis; preliminary study results.
Bi-national treaty (aka, "Minute") committing the U.S. - Mexico to address issues of sediment, trash, and bacteria in the Tijuana Watershed by identifying issues, providing solutions, acquiring resources, and informing the public.	IBWC, CILA	Staff time	IBWC	Jose Nunez, IBWC, (jose.nunez@ibwc.gov)	Anticipated Results: Adoption of Treaty Minute 320.
Infrastructure repairs in Tijuana consisting of the rehabilitation and replacement of pipelines and manholes in poor condition to reduce discharges to the Tijuana River.	EPA, CESPT, CONAGUA, NADB/BECC	\$7M total	EPA,NADB, CONAGUA	aquirre.hector@epa.gov	Anticipated Results: 10,000 meters of rehabilitated and/or replaced pipeline; 525 new residential connections.



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Goal 2 – Improve Access to Clean and Safe Water

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Action Plan for the Tijuana River Valley Recovery Strategy which identifies several projects to reduce trash and sediment in the Tijuana River Valley.	SD-RWQCB, City of San Diego, County of San Diego State Parks, US Fish and Wildlife Service (US FWS), IBWC, City of Tijuana.	TBD	State Board	Melissa Valdovinos, SD-RWQCB (mvaldovinos@waterboards.ca.gov)	Anticipated Results: 5 Year Action Plan adopted by State Board.
Sediment Management Plan for the Tijuana River Valley.	SD-RWQCB, City of San Diego, County of San Diego State Parks, US FWS, IBWC, City of Tijuana.	TBD	State Board	Melissa Valdovinos, SD-RWQCB (mvaldovinos@waterboards.ca.gov)	Anticipated Results: Sediment Management Plan for the Tijuana River Valley, which identifies sediment disposal options and cost for the City and County of San Diego, State Parks, IBWC, and the US Fish and Wildlife Service.
Removal and hauling of trash and sediment from Goat Canyon Sediment basins.	CA State Parks	\$1,000,000	State of California	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated Results: Removal of 20,000 cubic yards of trash and sediment from basin and haul between 10,000 and 45,000 cubic yards of stockpiled material off site by August 31, 2016.



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Disposal of trash that has been separated from sediment captured in the Goat Canyon Sediment basins.	TRNERR, SWIA, CA State Parks, National Oceanic and Atmospheric Administration	\$32,828	NOAA Marine Debris Program	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated Results: Removal of 400 tons of trash, hauled to landfill by July 31, 2016. Expected footprint of debris removal is 4 acres.
Removal of trash from Goat Canyon Sediment basins after significant storm events, and haul debris to landfill.	TRNERR, SWIA, CA State Parks, National Oceanic and Atmospheric Administration	\$21,000	NOAA Marine Debris Program	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated Results: Removal of 10 tons of trash during three clean-out and hauling events by July 31, 2016.
Clean trash from natural habitats and dispose of debris.	TRNERR, SWIA, CA State Parks, Urban Corps of San Diego	\$10,000	NOAA Marine Debris Program	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated results: Manual removal of trash from natural habitats by December 31, 2015. Quantity TBD.
Outreach to solid waste managers in the City of Tijuana.	TRNERR, SWIA, CA State Parks, NOAA	\$5,000	NOAA Marine Debris Program	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated Results: 8 Meetings to educate City officials on binational impacts of trash.
Outreach to grade school educators in Tijuana to develop marine debris education.	TRNERR, SWIA, CA State Parks, NOAA	\$5,000	NOAA Marine Debris Program	Chris Peregrin- CA State Parks (chris.peregrin@parks.ca.gov)	Anticipated Results: Partner with two Tijuana schools to develop curriculum and project-based learning program for marine debris



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Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Binational Green Infrastructure Project Development (San Diego - Baja California).	TRNERR, NOAA'S Coastal Training Program, NOAA's Office of Ocean and Coastal Resource Management	TBD	TRNERR Coastal Training Program	Ana Eguiarte, (aeguiarte@trnerr.org)	Anticipated Results: Identify possible green infrastructure projects in San Diego and develop at least one binational workshop to promote green infrastructure in Tijuana with the goal of reducing stormwater contamination in the estuary.
Implement the Water Quality Improvement Plan (WQIP) in Imperial Beach to reduce suspended solids and other stormwater pollutants.	City of IB, City and County of SD	TBD	City of IB	Chris Helmer (chelmer@imperialbeachca.gov)	Anticipated Results: Implementation of activities covered under WQIP to reduce pollutant loads from municipal stormwater discharges.
Restoration project to restore the Tijuana River below the Rodriguez Dam.	EPA, BECC, Pronatura	\$100,000	EPA	liden.douglas@epa.gov	Anticipated Results: Restoration of 50 hectares and 3km of the riparian corridor, including trash removal. Reuse of effluent from Tijuana wastewater treatment plant. Development of strategy for future maintenance.



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Objective 3-other: Initiatives to reduce water contamination in other watersheds and/or water bodies

Objective 4: Provide the public with timely access to water quality data in binational water bodies and watersheds in a readily understandable, web-based format.

Sub-objective 4a: Develop a binational website that displays timely information on beach advisories on both sides of the border in the Brownsville/Matamoros area, and ensure its operation through 2020.

Sub-objective 4b: Develop a binational website that displays timely information on beach advisories on both sides of the border in the San Diego/Tijuana area, and ensure operation of website through 2020.

Sub-objective 4c: Develop a binational website that displays timely information on water quality in high-priority watersheds including the Lower Rio Grande, the New River, and the Tijuana River and ensure operation of website through 2020.

Binational water quality database with GIS portal.	IBWC	TBD	IBWC, CONAGUA	Gilbert.anaya@ibwc.gov	Anticipated Results: Operate and update websites on ibwc.gov portal.
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**California-Baja California 2020 Master Action Plan – 2015-2016
Goal 3- Promote Materials Management, Waste Management and Clean Sites**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
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Objective 1: By 2020, increase local and state-level institutional knowledge and experience in the area of sustainable

<p>Convene a Sustainable Materials Management (SMM) Forum in Fall 2016 to promote strategies and actions targeted to achieve zero waste in the future.</p>	<p>With partners from EPA and Cal-Recycle & SEMARNAT and SPA; along with nonprofits, academic and business/industry.</p>	<p>Existing EFC West grant (\$35,000); will also seek in-kind support.</p>	<p>EFC West</p>	<p>Emily Pimentel, EPA</p>	<p>Anticipated Results: Advance SMM knowledge among at least 50 leaders and practitioners and launch at least one pilot project to showcase SMM outcomes.</p>
<p>Waste Tire Strategic Plan (Plan outlines activities to mitigate scrap tire and other solid waste impacting the CA/Baja CA border region. California commits funds from the California Tire Recycling Management Fund (California SB-83, 2015) administered by Cal-Recycle.</p>	<p>Border Region Solid Waste Working Group (Border Relations Council) Cal-Recycle in coordination with Cal-EPA.</p>	<p>\$300,000</p>	<p>California Tire Recycling Management Fund administered by Cal-Recycle</p>	<p>Alex Rodarte, Cal-EPA and Ken DeRosa, Cal-Recycle</p>	<p>Anticipated Results: (1) Update San Diego State University 2009 Tire Flow study and UC Berkeley 2012 Tire Management Plan, (2) Market-based actions for scrap tire reuse, and (3) Short and long-term projects to abate scrap tire and other solid waste including sediments impacting the Tijuana River Estuary in coordination with Goal 2.</p>
<p>Border Compost Market Assessment and Business Strategic Planning</p>	<p>Environmental Finance Center</p>	<p>\$35,000</p>	<p>US EPA grantee, EFC West, Dominican University</p>	<p>Emily Pimentel, EPA</p>	<p>Anticipated Results: Market Assessment and recommendations to support new compost markets, in Tijuana.</p>



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Goal 3- Promote Materials Management, Waste Management and Clean Sites**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Objective 2: By 2014, identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.					
Ecoparque pilot of household compost program in Tijuana.	COLEF	\$73,482	EPA/BECC grant	Carlos de la Parra, COLEF cdelap@colef.mx	Anticipated Results: Households educated in compost practices, compost derived from Tijuana household organic waste, and municipal guidance to develop household compost program. .
Ocean Friendly Restaurants Campaign	Proyecto Fronterizo de Educación Ambiental	\$70,180	EPA/BECC grant	Laurie Silvan laurie.silvan@gmail.com and Margarita Diaz margarita@proyectofronterizo.org.mx	Anticipated Results: Expose 60 restaurants and sign up at least 12 restaurants to ocean friendly practices to reduce use of single use containers and reduce impact of plastic waste on Tijuana’s landfills, beaches and the Pacific Ocean.
Implement “Tijuana Green and Clean: and acquire equipment for the Municipal Compost Center.	SEMARNAT-DGFAUT, SPA	3,368,382.88	SEMARNAT	Alfonso.blancafort@semarnat.gov.bmx	Anticipated Results: Equipment acquired. Documentation of program implementation.



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Goal 3- Promote Materials Management, Waste Management and Clean Sites

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Cleanup and mitigate trash in Mexicali New River agricultural drains. Phase I and II.	SEMARNAT-DGFAUT, SPA, and	\$65,000, Phase I and \$100,000 Phase II	EPA/BECC	Francisco Zamora, Sonoran Institute	Anticipated Results: Phase I -Trash collected over 1.5 km drain and communities engaged in diverse trash mitigation and canal/neighborhood revitalization activities. Phase II – Trash collected in five drains and community outreach expanded thru Mexicali Fluje campaign.
Campo waste characterization and zero waste management strategic planning (Phase I) and Zero Waste Program (Phase II)	Campo Band of Mission Indians (CBMI)	\$50,000 for Phase I and \$50,000 for phase II, both phases would be leveraged with EPA GAP funds.	EPA/BECC	Raymond Leon, rleon@campo-nsn.gov and Linda Hood, lhood@campo-nsn.gov CBMI Solid Waste Program	Anticipated Results: Strategic plan to advance zero waste program and finance strategy to develop/operate solid waste transfer station.
Integrated e-Waste management demonstration program in Mexicali. This is a three year program that seeks to educate and raise awareness about e-waste and improve conditions and capacity to safely collect and recycle e-waste.	BECC and Multilateral Investment Fund (FOMIN)/Inter-American Development Bank, and others.	\$462,000 (plus in-kind support thru partnerships)	FOMIN/Inter-American Development Bank.	Jorge Hernandez, BECC	Anticipated Results: number of individuals trained and certified to safely handle e-waste; reduce e-waste from getting disposed into landfills; increase number of micro-business repairing or recycling e-waste; transition informal workers to formal, safer jobs with living wages.



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Goal 3- Promote Materials Management, Waste Management and Clean Sites

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Hold at least five e-waste collection events, provide training to businesses, and conduct public outreach on best management practices associated to discarded electronic devices in Mexicali.	Fundacion Helice and Mexican federal and state agencies – SPA, SEMARNAT, PROFEPA.	\$52,500	BECC: grant	Myriam Serra and Carmen Muñoz, Fundación Hélice; EPA: Emily Pimentel; Jorge Hernandez, BECC	Anticipated Results: Complete five collection events in Mexicali; collect at least 20 tons of e-waste; complete outreach events educating public on best management practices to safely recycle e-waste; increase knowledge of recyclers thru targeted workshops of voluntary certification programs.
Objective 3: By 2020, improve knowledge at every level of government (federal, state, local) to characterize and remediate contaminated sites.					
Construction of an urban solid waste and special waste (RME) transfer stations in Tecate, Baja California.	SEMARNAT/ General Directorate of Urban Environmental Development and Tourism (DGFAUT)	MN\$ -4,050,000 (US\$227,000)	SEMARNAT / DGFAUT	Alfonso Blancafort (SEMARNAT)	Anticipated Results: Construction of an urban solid waste transfer station in Poblado la Rumorosa in Tecate.
Construction of an urban solid waste and special waste (RME) transfer center and study for site selection in Tecate, Baja California.	SEMARNAT/ DGFAUT	MN\$-2,950,000 (US\$ 219,327)	SEMARNAT DGFAUT	Alfonso Blancafort (SEMARNAT)	Anticipated Results: Completion of site selection study and construction of an urban solid waste transfer station in Paso del Aguila, Tecate, Baja California.



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California-Baja California 2020 Master Action Plan – 2015-2016
Goal 3- Promote Materials Management, Waste Management and Clean Sites

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Construction of an urban solid waste and special waste (RME) transfer stations in Ensenada, Baja California.	SEMARNAT/ General Directorate of Urban Environmental Development and Tourism (DGFAUT)	MN\$ -4,050,000 (US\$227,000)	SEMARNAT / Department of Environmental Development, Urban and Tourism (DGFAUT)	Alfonso Blancafort (SEMARNAT)	Anticipated Results: Construction of an urban solid waste transfer station in Ensenada, Baja California. Maneadero delegation, Ensenada.
Construction of two solid waste transfer stations in Mexicali, Baja California.	SEMARNAT/ DGFAUT	MN\$ -10,099,358 (US\$750,906)	SEMARNAT / DGFAUT	Alfonso Blancafort (SEMARNAT)	Anticipated Results: Construction of two urban solid waste transfer stations in Mexicali, Baja California.
Construction and equipping of a Scrap Tire Transfer Station for the Metro Tijuana/ Tecate/ Playa de Rosarito area.	Cities of Tijuana, Tecate, Rosarito, BC-SPA, SEMARNAT	MN\$ – xx (US\$87,300)	SEMARNAT / DGFAUT	SPA/SEMARNAT	Anticipated Results: Complete construction of tire transfer station in Baja CA border region Metro area.
Closure of five contaminated sites in Mexicali.	SEMARNAT/ DGFAUT	MN\$ -18,540,045 (US\$ 1,378,488)	SEMARNAT / DGFAUT	Alfonso Blancafort (SEMARNAT)	Anticipated Results: Closure of five contaminated sites in Mexicali.
Municipal Program for the Prevention and Management of Municipal Solid Waste in Ensenada, Baja California.	SEMARNAT-DGFAUT, SPA	\$971,384.00	SEMARNAT	alfonso.blancafort@semarnat.gob.mx	Anticipated Results: Implement program; document reductions in solid waste.



California-Baja California 2015-2016 Border 2020 Action Plan



**California-Baja California 2020 Master Action Plan – 2015-2016
Goal 3- Promote Materials Management, Waste Management and Clean Sites**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Municipal Program for the Prevention and Management of Municipal Solid Waste in Tijuana, Baja California.	SEMARNAT-DGFAUT, SPA	\$1,480,000.00	SEMARNAT	alfonso.blancafort@semarnat.gob.mx	Anticipated Results: Implement program; document reductions in solid waste.
Objective 4: On an annual basis, implement the Binational Consultive Mechanism on sharing information on border area hazardous waste facilities.					
Implement Consultative Mechanism in coordination with border states to disseminate information on treatment, storage, and disposal facilities along the CA/Baja CA border.	CA Dept. of Toxic Substances (DTSC) and Baja CA Secretary for Environmental Protection (SPA)	In-kind	In-kind EPA, SEMARNAT, and State staff.	Rick Picardi (EPA HQ); SEMARNAT	Anticipated Result: Implement the Consultative Mechanism. Publish annual report on Border 2020 website. Update annually.



California-Baja California 2015-2016 Border 2020 Action Plan



**California-Baja California 2020 Master Action Plan – 2015-2016
Goal 4- Enhance Joint Preparedness for Environmental Response**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
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Objective 1: Update as necessary, the current Mexico-US Joint Contingency Plan and on an annual basis, continue to evaluate and update the emergency notification mechanism between Mexico and the United States.

Continue to evaluate the notification system at the federal level and at the local and state levels.	EPA, Protección Civil, PROFEPA, ADEQ, and other CA-Baja CA Task Force partners.	TBD	TBD	Bill Jones - USEPA (jones.bill@epa.gov)	Anticipated Result: Document results of the emergency response notification system evaluations and quarterly communications tests as well as simulations to work through events such as a hazardous materials spills.
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Objective 2: By 2020, at least eight (8) of the sister city joint contingency plans will be supplemented with preparedness and prevention related activities such as certified training, risk analysis, and/or capacity building.

Update at least one Sister City Plan with preparedness and prevention related activities.	EPA, Protección Civil, PROFEPA and other CA-Baja Task Force partners.	TBD	US EPA Superfund	Bill Jones - USEPA (jones.bill@epa.gov)	Anticipated Results: Update Sister City Plans with preparedness and prevention related activities; Update Sister City Plans for Imperial Valley-Mexicali.
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California-Baja California 2015-2016 Border 2020 Action Plan



**California-Baja California 2020 Master Action Plan – 2015-2016
Goal 4- Enhance Joint Preparedness for Environmental Response**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Provide training to emergency responders on preparedness and prevention related activities.	EPA, Protección Civil, PROFEPA, ADEQ, and other CA-Baja Task Force partners.	Contingent on available resources	TBD	Bill Jones - USEPA (jones.bill@epa.gov)	Anticipated Results: Provide First Responder Awareness (FRA) training; First Responder Operations (FRO) training; HazMat refresher; and Incident Command System 100, 200 and 300.
Objective 3: By 2016, the US-Mexico JRT will make available technical outreach and training materials for distribution and dissemination along the border.					
Provide capacity building materials that will enhance response readiness, cross-border coordination, and training continuance for emergency responders in California/Baja California.	EPA, Protección Civil, PROFEPA, ADEQ, and other CA-Baja CA Task Force partners.	TBD	US EPA Superfund	Bill Jones - USEPA (jones.bill@epa.gov)	Anticipated Results: Provide capacity building materials in Spanish to emergency responders; enhanced response readiness, cross-border coordination, and training continuance.
Distribute Incident Command System, Personal Protective Equipment, Fire Safety, Radiation Safety, Mercury Response, and First Responder Awareness training.	EPA, Protección Civil, PROFEPA, and other CA-Baja CA Task Force partners.	Contingent on available resources	TBD	Bill Jones - USEPA (jones.bill@epa.gov)	Anticipated Results: Among of emergency response systems and equipment distributed. Results will be based on available resources.



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**California-Baja California 2020 Master Action Plan – 2015-2016
Goal 4- Enhance Joint Preparedness for Environmental Response**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
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Objective 4: By 2016, the US-Mexico JRT will analyze existing agreements (including sister city plans) that allow trans-boundary movement of equipment and personnel for comparison purposes.					
<p>Research agreements that allow personnel and equipment to cross the international border to respond to environmental emergencies. Seek assistance from Border Governors, as appropriate.</p>	<p>EPA, PROFEPA. PROT. CIVIL, State and Local Municipalities.</p>	<p>TBD</p>	<p>TBD</p>	<p>Beatriz Oliveira, Bill Jones, Enrique Ortiz, Jorge Vargas</p>	<p>Anticipated Results: identify at least one mutual agreement that permits the movement of personnel and equipment across the US-MX border. Obtain assistance from Border Governors to develop agreement on trans-border movement of equipment and personnel.</p>



California-Baja California 2015-2016 Border 2020 Action Plan



California-Baja California Border 2020 Master Action Plan – 2015-2016 Goal 5- Enhance Compliance Assurance and Environmental Stewardship					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<p>Objective 1: By 2020, strengthen effective information sharing between US and Mexican agencies regarding the movement of hazardous waste across the border and its ultimate treatment or disposal. In addition, ensure that land ports of entry have sufficient inspection capacity to police hazardous shipments.</p>					
Provide compliance assistance and enforce Hazardous Waste Import/ Export regulations at California's Land Ports of Entry with US Customs and CA-DTSC; Collaborate on Border 2020 Waste & Enforcement Task Forces.	DTSC and EPA	\$250,000 per year and In-kind DTSC funds <i>(These funds are the same as those reported under Goal 3)</i>	RCRA STAG (state grants)	Alfredo Rios, DTSC	Anticipated Results: Report on number of vehicle port of entry inspections conducted and cases developed.
Police California's Harbor Ports of Entry to ensure proper conformity of non-road vehicle engine imports thru national EPA initiative.	EPA	In-Kind	EPA	Joel Jones	Anticipated Results: Document numbers of inspections and enforcement actions; Report on inspections and cases developed related to environmental violations.
Provide compliance assistance and enforce California's scrap, e-waste, and other materials management programs.	Cal-Recycle	In-kind	Cal-Recycle	Jeff Hunts, Keith Cambridge, and others.	Anticipated Results: Report on border compliance assistance and other program activities; Report on any border inspections and environmental violations.



California-Baja California 2015-2016 Border 2020 Action Plan



**California-Baja California Border 2020 Master Action Plan – 2015-2016
Goal 5- Enhance Compliance Assurance and Environmental Stewardship**

Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
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Objective 2: By 2020, in Mexico, increase by 25 percent the number of businesses in the border region enrolled in the National program for Environmental Auditing (PNAE) and/or similar programs at the state level for facilities not regulated by the federal government, using 2012 as a baseline.

Objective 3: Using the U.S. Toxic Release Inventory (TRI) and the Mexican Registry of Emissions and Transfers of Pollutants (RETC), along with other sources of environmental information, share information regarding activities contributing pollution to trans-boundary air and/or water basins along the border.

Report on activities that contribute to trans-boundary air and/or water pollution using the U.S. Toxic Release Inventory (TRI) and Mexican Registry of Emissions and Transfers of Pollutants (RETC).	EPA/SEMARNAT	In-Kind	EPA/SEMARNAT	Emily Pimentel	Anticipated Results: Develop fact sheets on activities that contribute to transboundary air and/or water pollution in the Arizona/Sonora region. Develop the public knowledge of pollution sources.
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Objective 4: By 2020, implement at least five (5) binational workshops targeted to environmental enforcement professionals, including port-of-entry customs professionals, to promote the exchange of information and improve understanding of each country's respective compliance and enforcement programs and tools, including field inspection and case development practices.

Implement a border enforcement panel in San Diego in Jan. 2015 as part of the annual CUPA Conference.	CA Dept. Toxic Substances Control/San Diego CUPA and EPA/SEMARNAT and Baja CA SPA	In-Kind	CUPA Annual Conference	Romina Scheiss, San Diego CUPA	Anticipated Result: Convene Border enforcement panel to share information and lessons-learned among border enforcement agencies.
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California-Baja California 2015-2016 Border 2020 Action Plan



California-Baja California Border 2020 Master Action Plan – 2015-2016 Fundamental Strategy – Environmental Health					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Imperial Valley Child Asthma Program-Healthy Breathing Healthy Homes Project will work with families and physicians to promote education on indoor air and asthma triggers in the home.	EPA, IVCAP, ECRMC, BECC	\$55,000	\$55,000	Priyanka Pathak, EPA	Anticipated Results: Implement program and document numbers of families participating.
Environmental Health and Asthma Awareness in Low-Income Housing Communities of Imperial County	EI Centro Regional Medical Center, IVCAP	\$123,971 (\$98,518 in grant funds and \$25,453 leveraged)	EPA, BECC	Jeremy Bauer, EPA Aide Fulton, IVCAP	Anticipated Results: Project will implement ten (10) Asthma Forums to teach residents about preventing asthma triggers. Activities will also provide referred services of asthmatic children via home visits, and implement the Healthy Homes Training specifically for low-income housing.
Conduct training on asthma triggers. Doctors from the EPA Region 9 Pediatric Environmental Health Specialty Units will train Imperial Valley doctors on best practices for asthma management for their patients.	EPA (Border, Air and Children's Health), IVCAP, ECRMC, R9 PEHSU	TBD, in-kind	EPA, BECC	Priyanka Pathak, EPA	Anticipated Results: Conduct training and document number of participants.
Conduct at least one <i>promotor</i> workshops to share environmental health information with promotores and health outreach workers who will share information with vulnerable populations along the California-Baja California border.	EPA, U.S.M. Border Health Commission	Scope of Work covers this activity as well	EPA and BHC	Border environmental health coordinator	Anticipated Results: Hold workshop in San Diego/Tijuana and Calexico/Mexicali. Reach approximately 100-150 promotores who will then build knowledge with their communities and vulnerable populations in California-Baja California.



California-Baja California 2015-2016 Border 2020 Action Plan



California-Baja California Border 2020 Master Action Plan – 2015-2016 Fundamental Strategy – Environmental Health					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Convene a Border Children's Health Symposium for medical and healthcare practitioners working in the border region to build children's environmental health capacity and ensure that environmental health information and emerging studies are reaching doctors and public health personnel working with vulnerable populations within the border region.	EPA, BHC	TBD	EPA - Children's Health, Border, U.S.M. Border Health Commission	Jackie Menghrajani, Border environmental health coordinator	Anticipated Results: Reach at least 150 physicians, public health nurses, staff and promotores on priority environmental health topics impacting border communities.
Healthy homes training for community health workers and promotores in Imperial Valley.	IVCAP, EPA	TBD	TBD	Priyanka Pathak - Alheli thinks this should be Jackie	Anticipated Results: Build capacity among participants regarding environmental hazards in homes that may impact health and how to address these hazards. Participants will learn how to educate others about healthy homes concepts.
Assessment of Environmental Health Data for the California/Mexico Border.	EPA, BHC	\$49,000	Border 2020	Jeremy Bauer, EPA	Anticipated Results: A. A report for public agencies, decision makers, and non-governmental organizations B. Template for improving the borders' environmental health surveillance system for ongoing analysis of health and environmental data. C. At least five recommendations for a binational border region environmental health surveillance system to enhance collaboration and data exchange between the U.S. and Mexico

