

BORDER 2020 MASTER ACTION PLAN

This Action Plan integrates actions for all Border 2020 Goals for California/Baja California

Goal 1- Air	Goal 2- Water	Goal 3 - Materials Management	Goal 4- Environmental Response	Goal 5- Enforcement and Compliance
California/Baja California	California/ Baja California	California/ Baja California	California/ Baja California	California/ Baja California

Description of Action (with commitment of resources)	Collaborating Organizations	Cost	Sources of Funding	Points of Contact	2014 Target Output
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Goal 1: Reduce Air Pollution

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 the respective vehicle emissions standards, and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible reduction measures.

Implement State Vehicle inspection program in Baja California	Secretaría de Protección al Ambiente (SPA)	Staff time	SPA	Martha Fonseca (mfonseca@baja.gob.mx)	Annual Numbers of vehicles inspected
Implement sustainable urban transport systems in Tijuana, Mexicali	Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT), Secretaría de Infraestructura y Desarrollo Urbano del Estado de Baja (SIDUE), SPA	NA			

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 ozone redesignation to attainment	US EPA, San Diego County Air Pollution Control District (SDAPCD)	Staff Time	EPA, SDAPCD	John Ungvarsky- US EPA (ungvarsky.john@epa.gov)	San Diego redesignation for ozone
Media Outreach Campaign in Mexicali to reduce open burning and fireworks during holiday season	Imperial County Air Pollution Control District (ICAPCD), Air Quality Task Force, and SPA	\$50,000	Border 2012/ ICAPCD (already funded)	Belen Leon- ICAPCD (belenleon@co.imperial.ca.us)	Conduct media outreach campaign to reduce open burning and fireworks during holiday season in Mexicali. (Ended January 2013)
Municipal Paving Project-Mexicali, Baja California.	Consejo de Urbanización Municipal de Mexicali	\$45,200,000	Local Financing and NADB Loan	Juan Antonio Flores, NADB	This project will pave 1.1 million square meters of roadway, reducing particulate matter emissions.
Adopt Fugitive Dust Control Rules to Reduce PM10 in Imperial County	ICAPCD, California Air Resources Board (CARB)	Staff Time	ICAPCD	Brad Poiriez/ Staff- ICAPCD (bradpoiriez@co.imperial.ca.us)	Final PM10 SIP for Imperial County. (Imperial County Air Pollution Control District adopted fugitive dust rules in October 2012. EPA approved Imperial County rules in April 2013.)
Implement Pro Aire Mexicali strategies	City of Mexicali, Procuraduria Federal de Protección al Ambiente (PROPEPA), Secretaría de Comunicacion y Transporte (SCT), SPA, SEMARNAT	Staff time	City of Mexicali, SEMARNAT, PROPEPA, SPA, SCT	City of Mexicali, SPA Saul Guzman- SEMARNAT (saul.guzman@semarnat.gob.mx) Jesus Jiménez Payan - PROPEPA (jjimenez@profepa.gob.mx) SCT	Strengthening and improving inspections and surveillance practices at federal and state industries, business and services to reduce air emissions - Promote fuel efficiency measures in passengers and freight transportation - Implement and oversee the vehicles smog check program

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Implement ProAire Tijuana Metropolitan area strategies	City of Tijuana, SPA, SEMARNAT, PROFEPA, SCT	Staff time	City of Tijuana, SEMARNAT, PROPEPA, SPA, SCT	City of Tijuana SPA Saul Guzman-SEMARNAT (saul.guzman@semarnat.gob.mx) Jesus Jiménez Payan - PROFEPA (jjimenez@profepa.gob.mx) SCT	Promote the integral mobility of public transportation in the metropolitan area - Promote the self regulatory mechanism, the constant improvement and the eco-efficiency for industry, business and services, to reduce air emissions - Implement and supervise the vehicle smog check program - Develop an epidemiologic surveillance system related air quality
Carl Moyer Program—reduce emissions from mobile sources	SDAPCD/ CARB	\$1,400,000	State of California	Mike Watt- SDAPCD (Michael.Watt@sdcounty.ca.gov)	Reduce PM and NOx from voluntary emission reductions from heavy-duty diesel engines. Metric will be number of projects funded in California Border Region.
Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to air quality data in:					
• California/Baja California					
Operate and Maintain the Imperial County Air Quality Monitoring Network.	ICAPCD, CARB	Staff time and maintenance costs	ICAPCD	Brad Poiriez- ICAPCD (bradpoiriez@co.imperial.ca.us) Monica Soucier- ICAPCD (monicasoucier@co.imperial.ca.us)	Ongoing O&M and collection of accurate data
Implement Monitoring Action Plan to help maintain the air quality monitoring network in northern Baja California.	US EPA, SPA, SEMARNAT, CARB, Instituto Nacional de Ecología (INE)	US EPA - \$250,000 in 2010 for PM analysis and ARB support, additional in kind technical assistance; SPA - cost for network operations; INE - in kind for technical assistance and Meteorological audits; ARB - in kind for tech assistance	EPA, SPA, SEMARNAT, INE	Martha Fonseca-SPA (mfonseca@baja.gob.mx)	Collection of accurate data and implement binational air monitoring action plan.
Operate and maintain the San Diego air monitoring network.	SDAPCD, CARB	Staff time and costs to upkeep monitor network	SDAPCD	Mahmood Hossain- San Diego County (Mahmood.Hossain@sdcounty.ca.gov)	Ongoing O&M and collection of accurate data
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.					
Completion of Baja California Climate Action Plan	SPA, SEMARNAT-INE, CONAYCT, UABC, COLEF, CICESE	\$102,000	BECC, EPA, SEMARNAT	Martha Fonseca, SPA (mfonseca@baja.gob.mx)	Completed in December 2012
Baja California Climate Change Action Plan Mitigation Cost Benefit Analysis (Phase II)	SPA, BECC, INE	\$275,000	BECC	T. Balarezo- BECC (tbalarezo@cocef.org)	Complete Phase II Final Report
Objective 5: By 2020, reduce emissions and associated impacts through energy efficiency and/or alternative/renewable energy projects.					
Small Scale Hydroelectric Plant at the Carrizo Dam in Tecate B.C. Production of 20 MW of electricity by a small hydroelectric plant using the flow from the Rio Colorado-Tijuana aqueduct before it is deposited into the El Carrizo Dam.	BECC, Baja California, Comisión Federal de Electricidad (CFE), North American Development Bank (NADB)	\$50,000,000	NADB	Renata Manning- BECC (rmanning@cocef.org)	Certification/ Construction of small scale 20MW hydroelectric plant in Tecate
El Centro PV Plant. 20 MW solar photovoltaic power generating facility located on IID owned land that will serve load in the El Centro area.	BECC, El Centro Authority, NADB	Pending	NADB	Renata Manning- BECC (rmanning@cocef.org)	Certification/Construction of 20MW photovoltaic power generating facility to serve El Centro, California.

SDSU Brawley PV Plant. 5 MW-ac solar power generation plant located on the campus of San Diego State University ("SDSU") campus in Brawley, California. A combination of technologies will be used (photovoltaic, concentrated photovoltaic, and/or thin-film).	BECC, San Diego State University (SDSU), NADB	19,200,000	NADB	Renata Manning- BECC (rmanning@cocef.org)	Certification/Construction of a 5 MW-ac solar power generation plant located at the SDSU campus in Brawley, California.
Ocotillo Express Wind Project. The 265 MW Ocotillo Express Wind Project ("Ocotillo" or the "Project") is located primarily on Bureau of Land Management land approximately 30 miles west of the town of El Centro, in western Imperial County, CA. The project will consist of 112 Siemens SWT turbines. Project output will be sold under a 20-year PPA to San Diego Gas & Electric Company ("SDGE"). The 20 year term will commence when the entire wind farm construction is completed. The Project is expected to be fully permitted and ready for commencement of construction in May 2012.	BECC, NADB, San Diego Gas & Electric (SDGE)	\$110,000,000	NADB	Renata Manning- BECC (rmanning@cocef.org)	Certification/Construction of 265 MW wind project in Ocotillo, California. Certification took place in October 2012

Goal 2: Improve Access to Clean and Safe Water

Objective 1: Promote the increase in the number of homes connected to safe drinking water and adequate wastewater treatment.

Sub-objective 1a: By 2015, promote access to safe drinking water to at least 5,000 households. Revise targets every two years.

Sub-objective 1b: By 2015, promote access to adequate wastewater sanitation to 42,000 households. 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.

EPA Region 9 will incorporate sustainable infrastructure components in the development phase of US-Mexico border water infrastructure program projects.	US EPA, Comisión Nacional del Agua (CONAGUA), Border Environment Cooperation Commission (BECC)	TDB	Local, state and federal partners	Hector Aguirre- US EPA (aguirre.hector@epa.gov)	Sustainable infrastructure component will be incorporated into two project based on the results from energy audits
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Sub-objective 2b: Improve energy efficiency and efficient water use at border drinking water and wastewater utilities.

Energy audits in water utilities in Baja California	BECC, Comisión Estatal de Servicios Públicos de Tijuana, (CESPT)		BECC, CESPT	Roberto Molina- BECC (rmolina@cocef.org)	Water audit reports in at least five (5) selected utilities.
Conduct feasibility analysis of anaerobic sludge digesters at International Treatment Plant in San Ysidro, CA.	US EPA, BECC, International Boundary and Water Commission (IBWC)	\$126,000	US EPA	Jessica Hernandez- BECC (jahernandez@cocef.org)	Develop feasibility analysis report describing capital costs, O&M costs, and methane reuse options.

Sub-objective 2c: Build operational, managerial, and financial capacity at border drinking water and wastewater utilities through training.

Wastewater operations training in seven (7) Mexican border communities including Matamoros, and Reynosa, Tamaulipas, Ciudad Juarez, Chihuahua, Sonoyta and San Luis Rio Colorado, Sonora, Tecate and Playas de Rosarito, Baja California.	US EPA, NADB	\$40,000	BECC, US EPA Border 2012 funds	Salvador Gandara- US EPA, Region 6 (Gandara.salvador@epa.gov)	50 people trained, 288 hours of training over 18 courses
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Objective 3: Work binationally to identify and reduce surface water contamination in specific high priority water bodies or watersheds.

Sub-objective 3a: Develop a binational watershed protection plan in the Lower Rio Grande below Falcon International Dam.

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.

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.					
Wastewater collection system rehabilitation in colonias Loma Linda and Esperanza in Mexicali, BC to repair 10,000 meters of sewer lines.	US EPA, CONAGUA, BECC, NADB, Comisión Estatal de Servicios Públicos de Mexicali (CESPM)	\$1,439,988	US EPA, BECC (PDAP)	Jessica Hernandez, BECC (jahernandez@cocef.org)	BECC certification of project to rehabilitate wastewater collection system in colonias Loma Linda and Esperanza in Mexicali, BC.
Develop and establish a new and comprehensive program to control agricultural discharges and drain O&M discharges in the Imperial Valley.	California Regional Water Quality Control Board - Region 7	\$170,000	CRWQCB	Jose Ange-CA RWQCB (jangel@waterboards.ca.gov)	A new regulatory program to control agricultural discharges to the New River, Alamo River, and Salton Sea by 2014.
Draft and adopt a new permit that requires all CAFOs that are within the floodplain of the New River in the Imperial Valley to contain their waste.	California Regional Water Quality Control Board - Region 7	\$90,000	CRWQCB	Jose Ange-CA RWQCB (jangel@waterboards.ca.gov)	A new General Non-NPDES permit for CAFOs in the floodplain by 2014.
Improve water quality monitoring of the New River in Calexico, CA	California Regional Water Quality Control Board - Region 7	\$24,000	CRWQCB	Jose Ange-CA RWQCB (jangel@waterboards.ca.gov)	Annual report of New River water quality along the border and the Imperial Valley.
Increase the number of sites, frequency, and review of water quality monitoring of the New River in Mexicali, B.C.	CONAGUA, CILA	Nationwide contract, no specific information for the river is available.	CONAGUA	Antonio Espinoza - CONAGUA (antonio.espinoza@conagua.gob.mx)	Periodic water quality information.
Continue implementing the program to control industrial discharges to the New River in Mexicali.	CONAGUA		CONAGUA	Angel Lozano , CONAGUA (Angel.lozano@conagua.gob.mx)	Compliance with discharge regulations.
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 sediment from Smuggler's Gulch and Main channel of Tijuana River in the U.S.	City of San Diego	\$1,000,000	City of San Diego	David Wells, City of San Diego (dwells@sandiego.gov)	40,000 cubic yards of sediment will be removed by end of 2014
Conduct modeling effort to determine sediment loads from Tijuana, BC into San Diego, CA and estimate reductions through various Best Management Practices, and land-use options.	US EPA, US Department of Agriculture (USDA), University of Arizona (UA)	\$100,000	US EPA Regional Applied Research Efforts funds and Border 2020 funds	Doug Liden, US EPA (liden.douglas@epa.gov)	Sediment model developed for Tijuana Watershed using the Automated Geospatial Watershed Assessment (AGWA) tool.
Conduct volunteer trash cleanup events.	US EPA, WILDCOAST (NGO)	\$54,000	US EPA Border 2012 funds	Douglas Liden, US EPA (Liden.douglas@epa.gov)	450 students educated on environmental issues and threats presented by improper solid waste management. 30 environmental club members trained on solid waste management and proper plastic recycling. 2450 cubic feet of PET plastics collected and removed from Los Laureles Canyon. 3 school-based plastics recycling programs implemented.
Remove and properly dispose of sediment from main channel of Tijuana River in the U.S.	IBWC	\$1,000,000	IBWC	Steve Smullen, IBWC (Steve.smullen@ibwc.gov)	Up to 60,000 cubic yards of sediment will be removed by the end of 2013.
Rehabilitation, cleaning and removal of sediment from main channel of Tijuana River in Mexico.	Comisión Estatal del Agua (CEA), CONAGUA, CESPT	?	CONAGUA	Jose Gutierrez- CONAGUA (jose.gutierrezr@conagua.gob.mx)	Up to 80,000 cubic meters of sediment removed by the end of 2014
Demarcation of floodplain in Tijuana, to help discourage illegal development.	CONAGUA, Secretaría de Infraestructura y Desarrollo Urbano del Estado de Baja (SIDUE), City of Tijuana	?	CONAGUA	Jose Gutierrez- CONAGUA (jose.gutierrezr@conagua.gob.mx)	Demarcate with signage at least 10 river kilometers under threat of irregular development.

Establish conservation easements, using the Los Sauces Canyon as a model.	SPA, CONAGUA, Instituto Metropolitano de Planeación de Tijuana (IMPLAN), and SEDESOL	?	Instituto Metropolitano de Planeación de Tijuana (IMPLAN),	Daniel Rubio Diaz de la Vega (IMPLAN)	Up to 20 acres of conservation easements adopted.
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	John Merino- IBWC (john.merino@ibwc.gov)	Develop a treaty minute following engineer's report.
Revegetate areas and remove trash impacting Tijuana River Watershed (in San Diego, CA), and train volunteers.	US EPA, BECC, Southwest Wetlands Interpretive Association (SWIA)	\$200,000	EPA Hometown Grant and remaining West Coast Estuaries Initiative funds	Douglas Liden, US EPA (Liden.douglas@epa.gov)	3000 native plants propagated, 200 plants installed, 3 volunteer cleanup events, 20 hours of training modules, 450 volunteer hours on both sides of the border
Incorporate houses in marginalized <i>colonias</i> that do not have wastewater treatment into the City of Tijuana. This is the first step to allow for the utility to provide treatment, which reduces surface water contamination.	CESPT, SPA	?	CESPT, CONAGUA	CESPT Saul Guzman- SEMARNAT (saul.guzman@semarnat.gob.mx)	3,000 households connected to wastewater
Infrastructure repairs in Tijuana consisting of the rehabilitation and replacement of pipelines and manholes in poor condition.	CESPT, CONAGUA, NADB/BECC	\$5.72 Million	NADB, CONAGUA	Jessica Hernandez- BECC (jahernandez@cocef.org)	Certification/Construction of project to rehabilitate and replace pipelines and manholes in Tijuana.
Modify monitoring Program through National Pollutant Discharge Elimination System (NPDES) Permits, Investigative Orders, and multiple agency collaboration on the condition of the Tijuana River, Estuary, and near shore waters.	San Diego-Regional Water Quality Control Board (SD-RWQCB)	Staff time	San Diego-Regional Water Quality Control Board (SD-RWQCB)	Melissa Valdovinos- SD-RWQCB (mvaldovinos@waterboards.ca.gov)	Utilize data from monitoring under NPDES permit and input from stakeholders, including IBWC, City of San Diego, the Tijuana River Valley Recovery Team, to develop a monitoring report on the condition of the Tijuana River, Tijuana River Estuary, and near shore waters.
Action Plan for the Tijuana River Valley Recovery Strategy.	SD-RWQCB, City of San Diego, County of San Diego State Parks, US Fish and Wildlife Service (US FWS), IBWC, City of Tijuana.	\$100,000	State Water Resources Control Board- Clean Up and Abatement Account, Prop 84 IRWM Grant Program (potential).	Melissa Valdovinos, SD-RWQCB (mvaldovinos@waterboards.ca.gov)	Final Action Plan for Tijuana River Valley Recovery Team adopted, which will identify programs, projects, and studies to reduce trash and sediment in Tijuana River Valley.
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.	\$300,000	State Water Resources Control Board- Clean Up and Abatement Account, Prop 84 IRWM Grant Program (potential).	Melissa Valdovinos, SD-RWQCB (mvaldovinos@waterboards.ca.gov)	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 of sediment from Goat Canyon Sediment basins	CA State Parks, Cal Recycles	\$700,000	Cal Recycles	Chris Peregrin- CA State Parks (cperegrin@parks.ca.gov)	Removal of 60,000 cubic yards of sediment from basin by 2014
Analysis of micro-plastics in sediment from Goat Canyon sediment basins.	US EPA, Tijuana National Estuarine Research Reserve	\$200,000	EPA	Harry Allen- US EPA (allen.harry@epa.gov)	Analysis of microplastics in sediment to determine relative volume, and to compare relative levels of PCBs, pesticides, and metals on plastic particles vs. the sediment.

Construction of the second phase of the Tecate River Wetlands.	Comisión Nacional de Áreas Naturales Protegidas (CONANP), Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT)	\$332,000	Comisión Nacional de Áreas Naturales Protegidas (CONANP)		Construct second phase of Tecate River Wetlands.
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.					
Use monitoring from Playas Limpias Program to certify Tijuana and Rosarito beaches as Clean Beaches	CONAGUA, SPA, SEMARNAT, Municipios de Tijuana y Rosarito	\$10,000	CONAGUA, SPA, SEMARNAT, Municipios de Rosarito y Tijuana	Gustavo Santos- CONAGUA (gustavo.santos@conagua.gob.mx)	Certification for Tijuana and Rosarito under the Clean Beaches Program. The Playas Limpias designation will recognize those beaches that delineate where sources of potentially contaminating discharges are located and will provide standards for: 1) water quality of certified beaches, coastal lagoons, and estuaries; 2) the presences of solid/biological wastes; 3) proximity of infrastructure to certified beaches; 4) the protection and management of coastal biodiversity; 5) land use practices and public safety activities; and 6) environmental education activities, beach signage and public notification of poor water quality.
Develop protocol in Tijuana for beach advisories with Playas committee and beach closure notification system	US EPA, BECC, CONAGUA, Secretaria de Salud, Secretaria de Marina, City of Tijuana, Playas Limpias Committee	\$12,000	US EPA Border 2020	Doug Liden, US EPA (liden.douglas@epa.gov)	
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 Tijuana River Watershed Portal	SD-RWQCB	Part of a \$252,000 contract	SD-RWQCB (via RFP)	Melissa Valdovinos- SD-RWQCB (mvaldovinos@waterboards.ca.gov)	Development of an online database and ArcGIS maps of proposed and existing trash and sediment source control projects in the Tijuana River Valley flood control zone to be maintained and distributed to all relevant stakeholders and Tijuana River Valley Recovery Team member agencies via an Internet-based watershed portal system; to result in a tangible geographic representation of binational efforts to implement the "Recovery Strategy"
Binational water quality database with GIS portal	IBWC			Gilbert.anaya@ibwc.gov	Website Operational and Updated
Other Initiatives identified by Regional Workgroups					
Goal 3: Promote Materials Management and Waste Management and Clean Sites					
Objective 1: By 2020, increase local and state-level institutional knowledge and experience in the area of sustainable material management practices.					

Increase public and private sector knowledge about green waste and food scraps composting practices in Tijuana being used to divert organics from landfills.	Tijuana Calidad de Vida, Municipality of Tijuana, and others	\$20,000	US EPA, BECC and in-kind support from Municipality of Tijuana	Carmen Romo- Tijuana Calidad de Vida (romo@calidad-de-vida.org)	Complete at least two trainings (webinar based or other outreach-training format). Measure number of individuals and business/institutions that participate in the training.
Increase public and private sector knowledge on sound management of electronic waste (E-waste) through outreach campaign and training program on two, distinct E-waste recycling certification programs - Responsible Recycling (R2) and E-stewards.	R2-Solutions and E-Stewards	\$20,000	US EPA, BECC	Emily Pimentel- US EPA (pimentel.emily@epa.gov)	Complete at least one training event in AZ/Sonora border region (e.g. webinar/workshop). Measure number of individuals and business/institutions that participate in the training.
Increase public and private sector knowledge about zero waste programs through training workshop on California's Zero Waste Program and Mexico's national strategy for managing special waste (i.e. overview of Mexico's Norm 161 on "special waste" management strategies by waste stream and required special waste plans (focus on end-of-life vehicles).	Cal-Recycle, SEMARNAT	In-kind support from collaborating organizations	Cal-Recycle, SEMARNAT	Emily Pimentel- US EPA (pimentel.emily@epa.gov) Sergio Gasca- Alvarez- SEMARNAT (sergio.gasca@semarnat.gob.mx) Howard Levenson- Cal-Recycle (Howard.Levenson@CalRecycle.ca.gov)	Complete at one training event in CA/Baja CA region (e.g. webinar/workshop). Measure number of participants trained.
Objective 2: By 2014, identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.					
Construction of an urban solid waste transfer center in Tecate, Baja California	City of Tecate, Secretaría de Protección al Ambiente (SPA), Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT), Dirección General de Fomento Ambiental Urbano y Turístico (DGFAUT)	\$227,000	Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT), Dirección General de Fomento Ambiental Urbano y Turístico (DGFAUT)	Estaban Davis- SPA (edavis@baja.gob.mx) Cesar Rafael Chávez Ortiz- SEMARNAT (cesar.chavez@semarnat.gob.mx)	Complete construction of transfer station for urban solid wastes in Tecate.
Construction and equipping of the Scrap Tires Transfer Station for the Metro Tijuana/Tecate/Playa de Rosarito area	Cities of Tijuana, Tecate, Rosarito, SPA, SEMARNAT	\$87,300	Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT), Dirección General de Fomento Ambiental Urbano y Turístico (DGFAUT)	Estaban Davis- SPA (edavis@baja.gob.mx) Cesar Rafael Chávez Ortiz- SEMARNAT (cesar.chavez@semarnat.gob.mx)	Complete construction of tire transfer station in Baja CA border region Metro area.
Train interested "recyclers" operating in border region, on E-waste certification requirements (based on Responsible Recyclers (R2) and e-Stewards certification programs).	US EPA, SEMARNAT, DTSC, SPA, and non-profit "recycling" certification program organizations	\$40,000	US EPA, BECC	Emily Pimentel- US EPA (pimentel.emily@epa.gov) Renata Manning- BECC (rmanning@cocef.org)	Complete training of at least five firms in AZ/Sonora, Measure number of participants and business/institutions reached and individuals that participate in training and number of new firms taking steps to get certified by 2020 in border states.
Objective 3: By 2020, improve knowledge at every level of government (federal, state, local) to characterize and remediate contaminated sites.					
Improve remediation knowledge associated with specific chemical waste streams (e.g. pesticides, mine tailings) and industry waste categories (e.g. metal smelters) by providing training (via webinar or half-day workshop) in coordination with EPA's Clean-up Information Program (www.clu-in.org).	US EPA, SEMARNAT/ INE (coordinate with EPA's CLU-IN and University of AZ Dean Carter Binational Center.)	\$5,000	US EPA, SEMARNAT	Emily Pimentel- US EPA (pimentel.emily@epa.gov) TDB (SEMARNAT) Carlos Pachon- US EPA HQ (pachon.carlos@epa.gov)	One training that applies to border in CA/Baja. Measure number of individuals and business/institutions that participate in the training
Objective 4: On an annual basis, implement the Binational Consultative Mechanism on sharing information on border area hazardous waste facilities.					

Coordinate with EPAHQ and SEMARNAT-HQ to implement Consultative Mechanism in coordination with border states of CA/Baja CA.	CA Department of Toxic Substances Control (DTSC), SPA	In-kind	In-kind EPA, SEMARNAT, and State Program Funding	Rick Picardi- US EPA (Picardi.Rick@epa.gov) Eduardo Gonzalez Hernandez- SEMARNAT (eduardo.gonzalez@semarnat.gob.mx)	Annually report, unless there are proposed new facilities in which case the respective countries should be notified within 30 days of a petition for a facility permit.
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Goal 4: Enhance Joint Preparedness for Environmental Response

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.

Table top exercises in Tijuana and in San Diego.	Procuraduria Federal de Protección al Ambiente (PROFEPA), Protección Civil de Baja California, Local First Responders	\$100,000	EPA Superfund	Lida Tan- US EPA (tan.lida@epa.gov)	One table top exercise in Tijuana and San Diego. Make recommendations for improvements.
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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.

Supplement San Diego/Tijuana Sister City Plan.	San Diego County, Protección Civil de Baja California	\$60,000	EPA Superfund	Lida Tan- US EPA (tan.lida@epa.gov)	Update and finalize the SD/Tijuana Sister City Plan
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Objective 3: By 2016, the US-Mexico JRT will make available technical outreach and training materials for distribution and dissemination along the border.

Distribution of DOT Emergency Response Guide.	California Emergency Management Agency (Cal EMA)	\$2,500	EPA Superfund	Lida Tan- US EPA (tan.lida@epa.gov)	750 Spanish copies of Department of Transportation emergency response guide distributed.
Distribution of Incident Command System, Personal Protective Equipment, Fire Safety, Radiation Safety, Mercury Response, First Responder Awareness.	Cal EMA	\$10,000	EPA Superfund	Lida Tan- US EPA (tan.lida@epa.gov)	Distribute emergency response materials in Spanish.

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.

Goal 5: Enhance Compliance Assurance and Environmental Stewardship

Objective 1: By 2020, strengthen effective information sharing between U.S. 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 waste shipments.

Support Hazardous Waste Port-of-Entry Inspections at the Otay Mesa and Calexico Commercial Ports.	CA Department of Toxic Substances Control (DTSC), US Customs and Border Protection, US EPA	\$100,000/yr and 1 FTE	DTSC, US EPA	Emily Pimentel- US EPA (pimentel.emily@epa.gov) Ivan Lieben- US EPA (lieben.ivan@epa.gov) Roger Vintze- DTSC (RVintze@dtsc.ca.gov)	This field will be updated in 2013 and 2014 (# of inspections and # of enforcement actions)
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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.

Environmental Leadership for the Competitiveness Program. Improve the competitiveness of small and medium-sized manufacturers making up the supply chain for larger manufacturers, through an environmental business management mechanism with an emphasis on eco-efficiency.	Procuraduria Federal de Protección al Ambiente (PROFEPA), Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT)			Jose Luis Tapia- PROFEPA (jtapia@profepa.gob.mx) Saul Guzman- SEMARNAT (saul.guzman@semarnat.gob.mx)	
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Build capacity in the Secretariat of Environmental Protection's environmental audits, inspections and enforcement programs in Baja California.	SEMARNAT, Secretaría de Protección al Ambiente (SPA)	\$455,800	SEMARNAT, Dirección General de Política Ambiental e Integración Regional y Sectorial (DGPAIRS)		Build capacity in the Secretariat of Environmental Protection's environmental audits, inspections and enforcement programs in Baja California.
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 transboundary air and/or water basins along the border.					
Increases public knowledge of industrial discharges/releases, using EPA's Toxic Release Inventory (TRI). Prepare TRI factsheets highlighting 2011 data in the California Border Region.	US EPA- Region 9	Staff Time	US EPA	José García- US EPA (garcia.jose@epa.gov)	One factsheet covering TRI releases in San Diego and Imperial Counties in California
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 studies.					
Binational Enforcement /Case development Workshop with a focus on specific waste streams, such as E-waste, used solvents, and sham recycling.	US EPA, SEMARNAT, PROFEPA, SPA, DTSC	\$18,000	US EPA	Emily Pimentel- US EPA (pimentel.emily@epa.gov) Ivan Lieben- US EPA (lieben.ivan@epa.gov) Roger Vintze- DTSC (RVintze@dtsc.ca.gov) Saul Guzman- SEMARNAT (saul.guzman@semarnat.gob.mx) Jesus Jiménez Payan - PROFEPA (jjimenez@profepa.gob.mx)	Training to enhance improved intelligence and information on smart enforcement, binational case development, intelligence gathering/sharing,