



Kickoff Meeting for Minute 320

Presentation by:
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Engineering Department
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IBWC Mission

***The International Boundary and Water Commission,
United States and Mexico,
is responsible for applying
the boundary and water treaties
between the two countries
and settling differences
that arise in their application.***





San Diego/Tijuana Area

- Trash migration from south to the north is an issue along the international boundary in the San Diego/ Tijuana area
- Binational Meetings were held on April 17, 2013 and April 24, 2014.
- IBWC worked on a Minute against the 1944 Water Treaty to address trash and sediment migration

**Pilot
Channel
Tijuana
River
November
2008**



**Pilot
Channel
Tijuana
River
January
2009**



Trans-Boundary Issues

Trash and Sediment Issues

- Trash dumped on the sides of Canyons is contributing to migration from south to north via Laureles /Matadero canyons, Tijuana River Channel, Steward's Drain
- Unprotected side slopes in Tijuana contributing to sediment transport from south to north via Los Laureles/Matadero canyons, and Tijuana River
- Soil Material dumped into water courses contributing to sediment migration

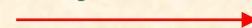
1. Trash
thrown into
Tijuana
Canyons



2. Development adjacent to Los Laureles Canyon.



3. Soil dumped into Los Laureles Canyon





Tijuana River main channel

Mexico

Matadero

Laureles

Zapata

Central

Del Sol

Sauces

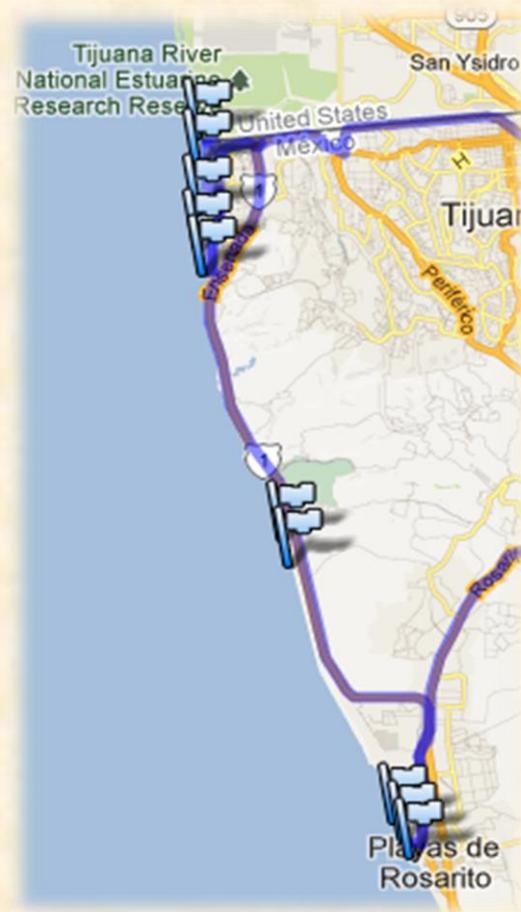
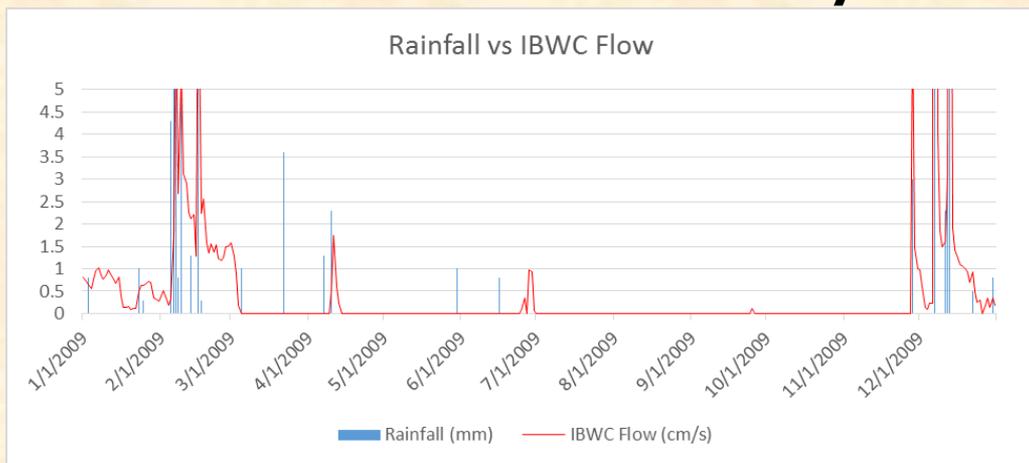
United States

Data U.S. Navy
Image Chula Vista



Trans-Boundary Issues

Water Quality Improvements



Enhance
Binational
Monitoring
Program



Trans-Boundary Issues

Water Quality Improvements



Reduce
Tijuana River
Dry Weather
Flows

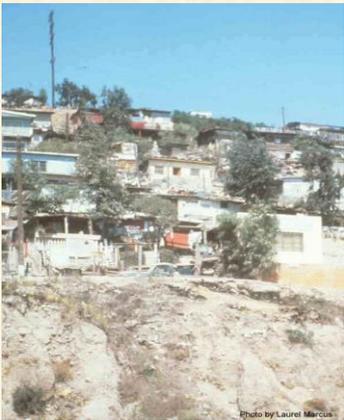
Improve Pump
Station CILA
Operations



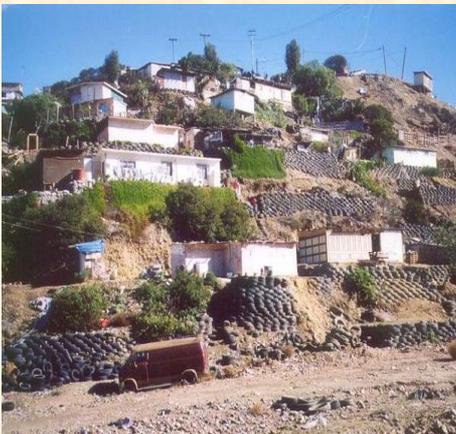


Trans-Boundary Issues

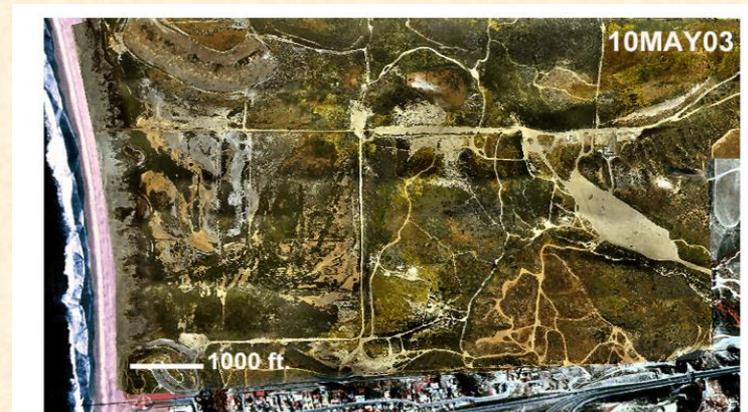
Sedimentation



Tijuana hillsides



Impacts in
Estuary





Trans-Boundary Issues

Sedimentation

- On-going loss of saltmarsh, tidal prism
 - Winter 2005: 18 Acres lost in one storm





International Boundary and Water Commission United States Section

Trans-Boundary Issues

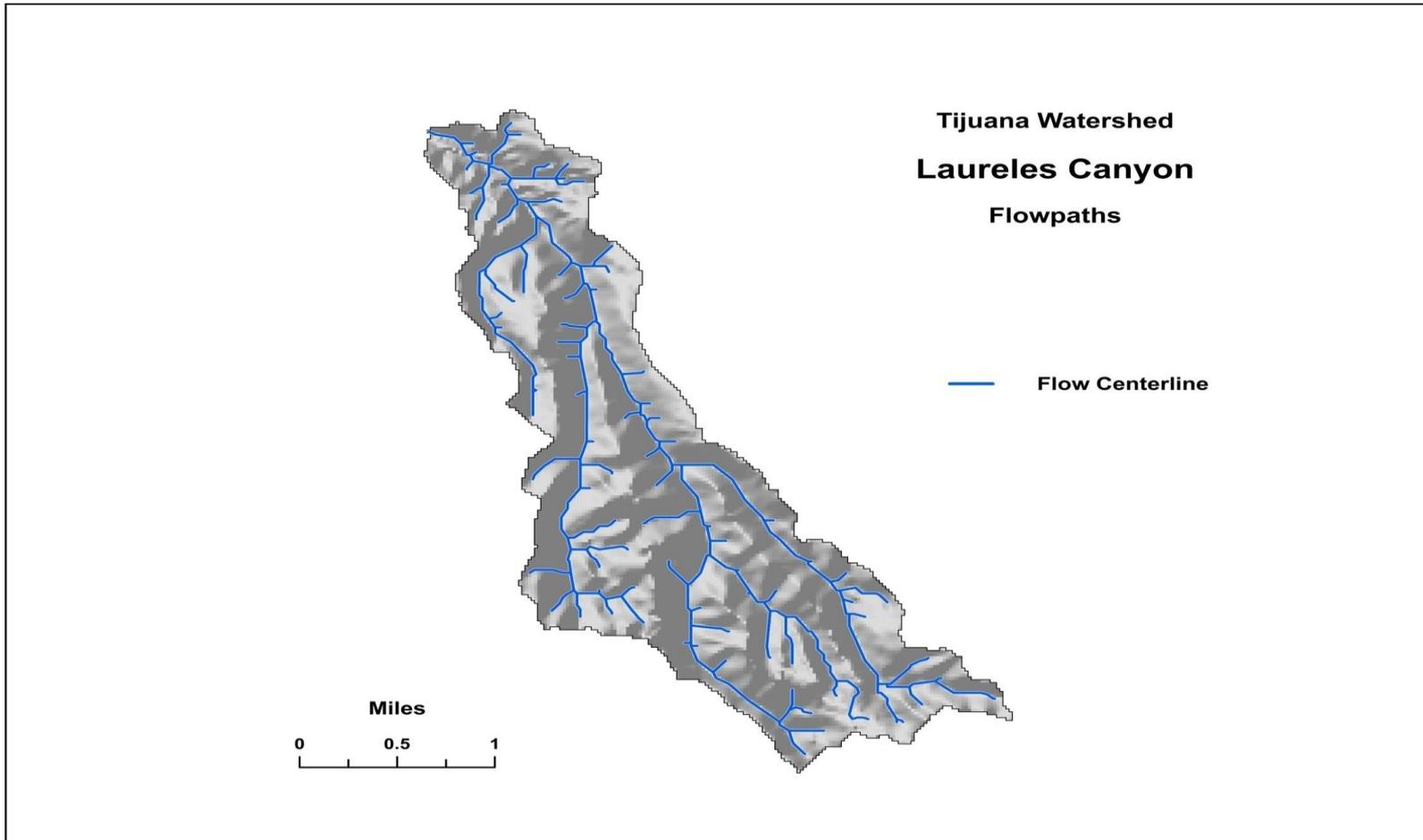


2. Los Laureles Canyon



International Boundary and Water Commission United States Section

Trans-Boundary Issues





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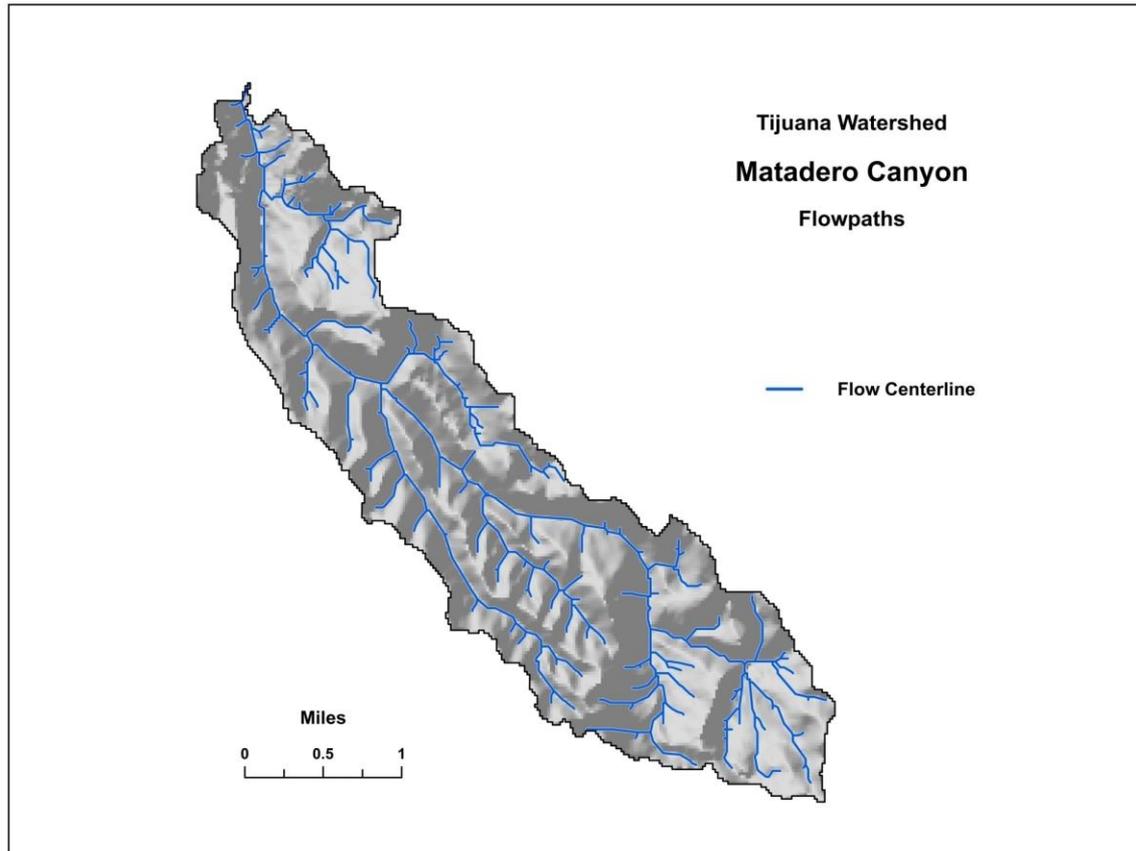
Trans-Boundary Issues



2. Channel,
Matadero
Canyon



Trans-Boundary Issues





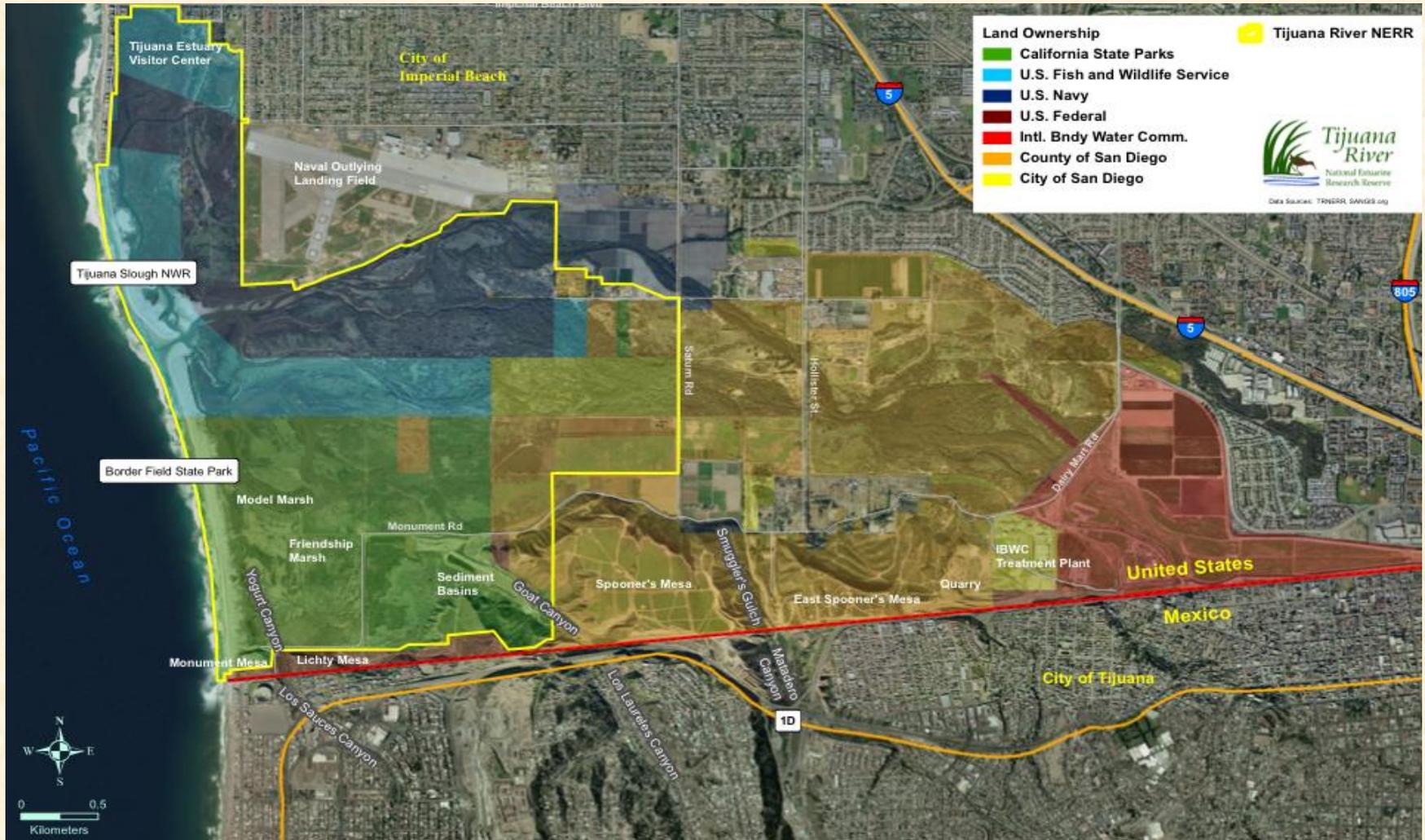
Trans-Boundary Issues





International Boundary and Water Commission United States Section

Trans-Boundary Issues





Trans-Boundary Issues

Binational Site Visits October 1, 2014

- Both United States and Mexican Sections of the International Boundary and Water Commission with Stakeholders from both countries conducted a binational visit of areas of concern in the Tijuana River Valley
- Areas visited In Mexico were
 - 1) Los Laureles Canyon
 - 2) Matadero Canyon
 - 3) El Pasteje Canyon



1. Los Laureles, Canyon



2. Channel, Matadero Canyon



3. Basin, El Pasteje/Aviacion





Trans-Boundary Issues

Binational Site Visits

October 2, 2014

Areas visited In the United States were:

1. Basin at La Media and Siempre Viva Roads
2. Tijuana River Channel
1. Goat Canyon/Smugglers Gluch



1. Basin at La Media and Siempre Viva Roads



2. Tijuana River Channel



3. Goat Canyon and Smugglers Gulch





Trans-Boundary Issues, Potential Improvements

Potential Improvements Suggested by Mexican and U.S. Stakeholders on October 3, 2014

1. Install new or replace missing trash racks on Tijuana Basins
2. Construct new basin in Los Laureles Canyon at El Milenio
3. Install weirs in existing Tijuana basins to catch sediment before it enters the main channel of the canyons

1. Basin Camino Verde No. 8 – Install trash racks on Tijuana Catch Basins where missing



2. Construct a basin in El Milenio like Mega Tanque in Los Laureles main stem



3. Add weirs to Tijuana Basins to trap sediment





Trans-Boundary Issues, Potential Improvements

Other Potential Improvements Recommended by Mexican and U.S. Stakeholders

- Improve the stormwater conveyance canal in Los Laureles Canyon water course.
- Conduct improvements to reduce flow velocities in El Matadero Canyon water course by widening and flattening the flow path by possibly adding gabions in the stream.
- Test the placement of trash boom in Tijuana Catch Basins.
- Consider the placement of Drop Inlet structures at the base of Los Laureles and Matadero Canyons at the International Boundary.
- Develop the Nelson Sloan site for deposition and processing sediment from the Tijuana River, Smugglers Gulch, Matadero Canyon and Goat Canyon.
- Develop a Trash Management Plan.
- Develop Sediment Management Plan.
- Develop a Binational Monitoring and Assessment Plan.



International Boundary and Water Commission United States Section



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