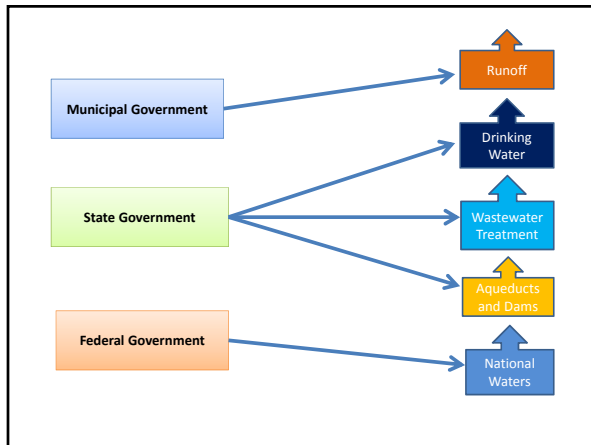


Water Quality Management in the Tijuana River Watershed:
an overview of Mexican Local, State and Federal resource management agencies

Oscar Romo ©

Mexico's water management history

- Secretaria de Fomento y Colonización ,1877
- Dirección de Aguas, Tierras y Colonización, 1917
- Comisión Nacional de Irrigación, 1926
- Secretaría de Recursos Hidráulicos, 1946
- Secretaría de Agricultura y Recursos Hidráulicos, 1976
- Secretaría de Medio Ambiente, Recursos Naturales y Pesca (1994-2000)
- Secretaría de Medio Ambiente y Recursos Naturales (2000-Present)



Tijuana Municipal Agencies

- Municipal Secretariat of Urban Development
- Municipal Secretariat of Social Development
- Municipal Direction of Environmental Protection
- Metropolitan Planning Institute

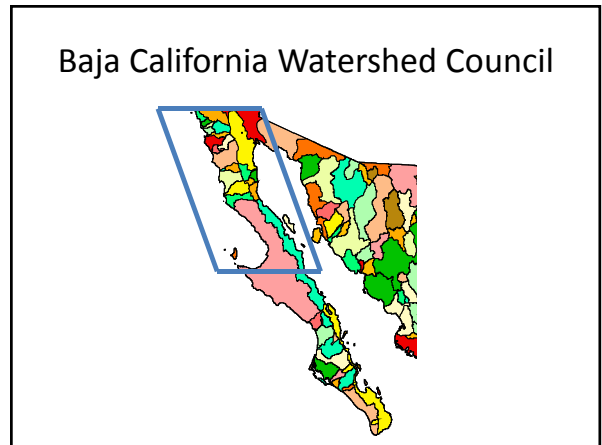
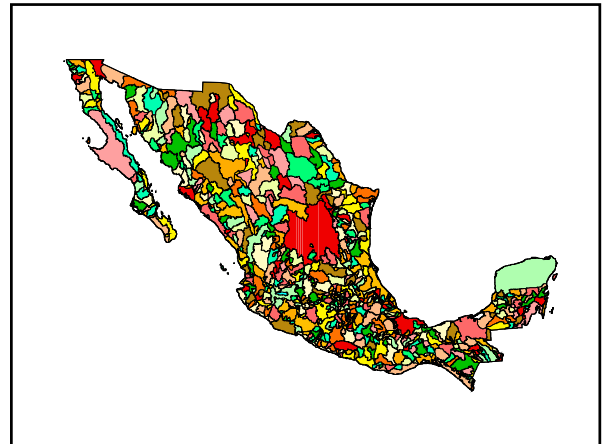
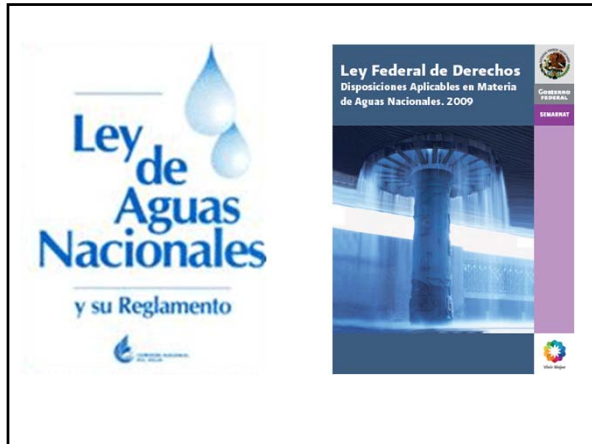
Baja California State Agencies

- State Water Commission
- State Water Commission for Public Services
- State Environmental Protection Agency
- State Secretariat for Urban Development
- State Secretariat for Social Development

Federal Agencies

- Ministry of the Environment and Natural Resources
 - National Water Commission
- Ministry of Social Development
- Ministry of Foreign Affairs
 - International Boundary and Water Commission, Mexican Section





- U.S./Mexico Agreements**
- 1848 Guadalupe Hidalgo Treaty
 - 1853 Gadsden Treaty (Temporary IBWC)
 - 1882 Convention (Temporary IBWC)
 - 1905 Banco Convention (Colorado and Grand Rivers)
 - 1944 Water Treaty
 - 1983 La Paz Agreement
 - 1989 Minute 279
 - 1994 NAFTA (environmental side agreements)
 - NadBank
 - BECC
 - CEC



- Oldest binational organization in the America's
- Build and supervises border crossings, and environmental infrastructure projects for border communities
- Manages and deliver water from shared resources

NAFTA Organizations

- Border Environment Cooperation Commission
- North American Development Bank
- Commission for Environmental Cooperation

TRW Bi-national challenges

- Tecate creek crosses the international boundary 4 times
- All the water falling in the northern section of the TRW flows into Mexico before returning to the U.S. at the TRV
- Water rights
- Water scarcity

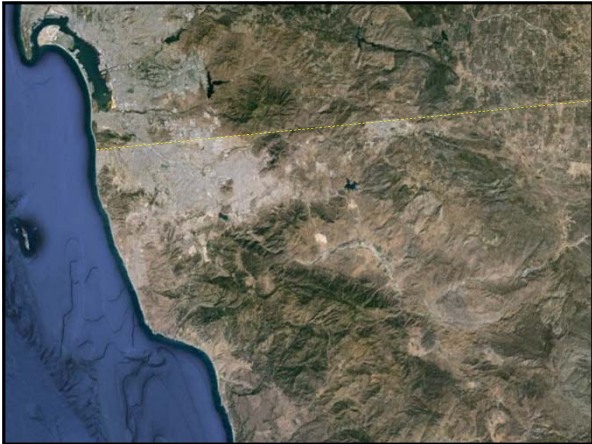
- IRWM Plan Vision
- *An integrated, balanced, and consensus-based approach to ensuring the long-term sustainability of the Region's water supply, water quality, and natural resources.*

- IRWM Plan Mission
- *To develop and implement an integrated strategy to guide the Region toward protecting, managing, and developing reliable and sustainable water resources. Through a stakeholder-driven and adaptive process, the Region can develop solutions to water-related issues and conflicts that are economically and environmentally preferable, and that provide equitable resource protection for the entire Region.*

- ### IRWM Plan Goals
- Improve the reliability and sustainability of regional water supplies.
 - Protect and enhance water quality.
 - Protect and enhance our watersheds and natural resources.
 - Promote and support sustainable integrated water resource management.

- ### IRWM Plan Objectives
- **Objective A** - Encourage integrated solutions to water management issues and conflicts
 - **Objective B** - Maximize stakeholder and community involvement and stewardship
 - **Objective C** - Effectively obtain, manage, and assess water resources data and information
 - **Objective D** - Further the scientific and technical foundation of water management
 - **Objective E** - Develop and maintain a diverse mix of water resources
 - **Objective F** - Construct, operate, and maintain a reliable infrastructure system
 - **Objective G** - Enhance natural hydrologic processes to reduce the negative effects of hydromodification and flooding
 - **Objective H** - Effectively reduce sources of pollutants and environmental stressors
 - **Objective I** - Protect, restore, and maintain habitat and open space
 - **Objective J** - Optimize water-based recreational opportunities
 - **Objective K** - Effectively address climate change through greenhouse gas reduction, adaptation, or mitigation

- ### Opportunities
- Improve and maintain coordination with Mexico's water management agencies
 - Support legislative work:
 - Local: City Council
 - Regional: State Assembly
 - Bi-national: Federal Congress and Senate
 - Elevate TRW issues at the Federal level
 - Expand outreach efforts
 - Innovative solutions
 - Trans-boundary resource conservation efforts



Questions?

www.alterterra.org
www.trashtracking.com
www.sdcoastalstorms.org

Oscar Romo
 619-631-2375
oromo@ucsd.edu