



# Arroyo Colorado Flood Enhancement Project

*Lower Rio Grande  
Citizen's Forum*

July 18, 2012

# Map of Floodway Enhancement Completed by Ground in Accessible Areas



# Map of Floodway Enhancement Completed by Boat



# Floodway Enhancement Procedures

- ❑ Location of Dead Trees on the Banks and Within the Channel of the Arroyo.
- ❑ Survey for Bird Nests near and around the Dead Trees.
- ❑ The Dead Tree is cut and/or attached to the Boat.
- ❑ The Tree/Branch is taken to a Pre-designated access ramp.
- ❑ The Dead Tree/Branch is then Chipped On-Site

# Overhanging Dead Trees on the Banks Before the Enhancement



# Dead Trees Within the Channel Before the Enhancement



# Enhanced Areas Within the Arroyo



**Before**



**After**



# Enhanced Areas Within the Arroyo



**Before**



**After**



# Enhanced Areas Within the Arroyo



**Before**



**After**



# Enhanced Areas After Brush Removal



# Enhanced Areas After Brush Removal



# Future Enhancement – Removal Dead Trees on the Banks and in the Channel



# Future Enhancement – Removal Dead Trees on the Banks and in the Channel



# Enhanced Areas After Brush Removal View from Sunshine Strip



# Phase II – Arroyo Colorado Flood Enhancement Project

- ❑ The area downstream of Business 77 (Sunshine Strip) has excessive vegetation growth beside the main channel that is reducing flood conveyance efficiency and increasing upstream flooding risks in the area.
- ❑ Topographical Surveys have been done in the Arroyo Colorado. More cross-sections have been taken to have a more precise flow model.
- ❑ A flow model is being processed using 50-ft grids, which will allow for a more precise determination of live vegetation that needs to be removed to mitigate upstream flooding risks.

# Arroyo Colorado – Immediate and Long Term Project Schedule

## Phase I - Short Term Project

- Remove Trash Dead Trees April 11, 2011 through December 2012

## Phase II - Intermediate

- Conduct Hydraulic Analysys Present – August 2012
- Hydraulic Study under review by USIBWC and discussion with other pertinent agencies September 2012 – October 2012
- Removal of Obstructive Live Trees October 2012 - Dec. 2013

## Phase III – Long Term Project

- Research Alternatives Dec. 2012 - June 2013
  - Redirect Flow
  - Restore Hydraulic efficiency
  - Coordinate with Resource Agencies
- Environmental Documentation (NEPA Process) June 2012 - January 2014
- Construct Improvements 2014

# INTERNATIONAL BOUNDARY AND WATER COMMISSION, UNITED STATES AND MEXICO



## Contact Information

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