

**INTERNATIONAL BOUNDARY AND WATER COMMISSION  
UNITED STATES AND MEXICO  
UNITED STATES SECTION**

**RIO GRANDE CANALIZATION PROJECT  
SEDIMENT REMOVAL OPERATIONS**



**CITIZENS' FORUM  
APRIL 23, 2015**

# CHANNEL MAINTENANCE ACTIVITIES



- Bank Stabilization
  - Using rock riprap and woody vegetation
- Arroyo Sediment Removal
- Arroyo Realignment
- River Channel Sediment Removal



# GOALS & OBJECTIVES

- Maintain efficient water deliveries to:
  - U.S. Irrigation Districts
  - Municipalities
  - Mexico
  
- Improve Operations at Diversion Dams



# NO ACTION IMPACTS

- Reduction in Channel Carrying Capacity
  - Reduce water delivery efficiency
  - Create backwater conditions = drainage problems
- River bank instability
  - Bank failure/Lateral migration
    - May impact maintenance roads
    - May impact flood protection levees
- Diversion Dams – Reduction in carrying capacity of irrigation canals with increase sediment loads

# 2014/15 WORK SCHEDULE



All work performed during non-irrigation season

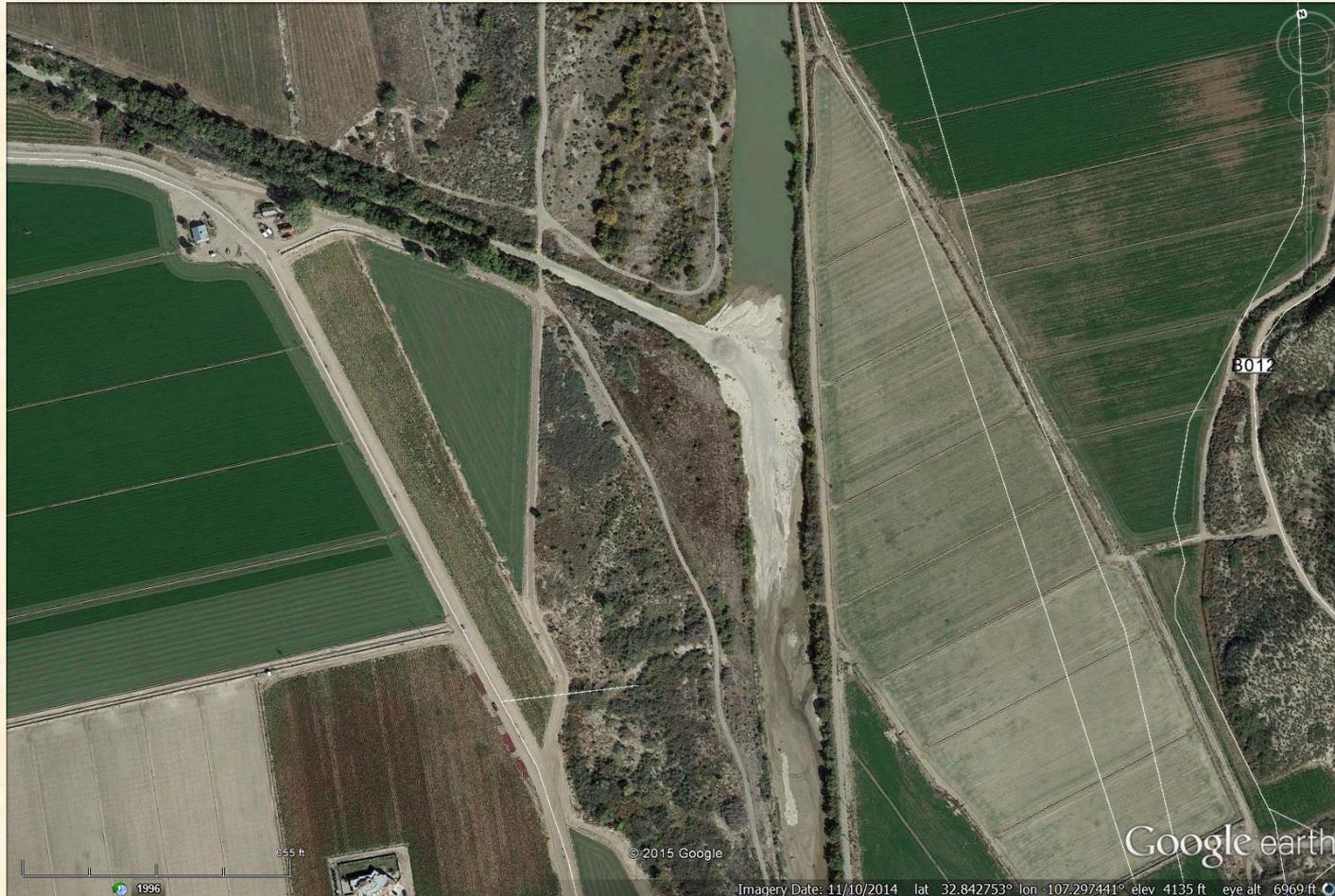
- Tipton Arroyo - Completed
- Trujillo Arroyo - Completed
- Montoya Arroyo - Completed
- Holguin Arroyo - Completed
- Tierra Blanca/Green Arroyos - Completed
- Int'l Dam - Est. Completion Date: 5/8
- American Dam - Est. Completion Date: 5/29
- Montoya Drain - Est. Completion Date: 5/29

# TIPTON ARROYO



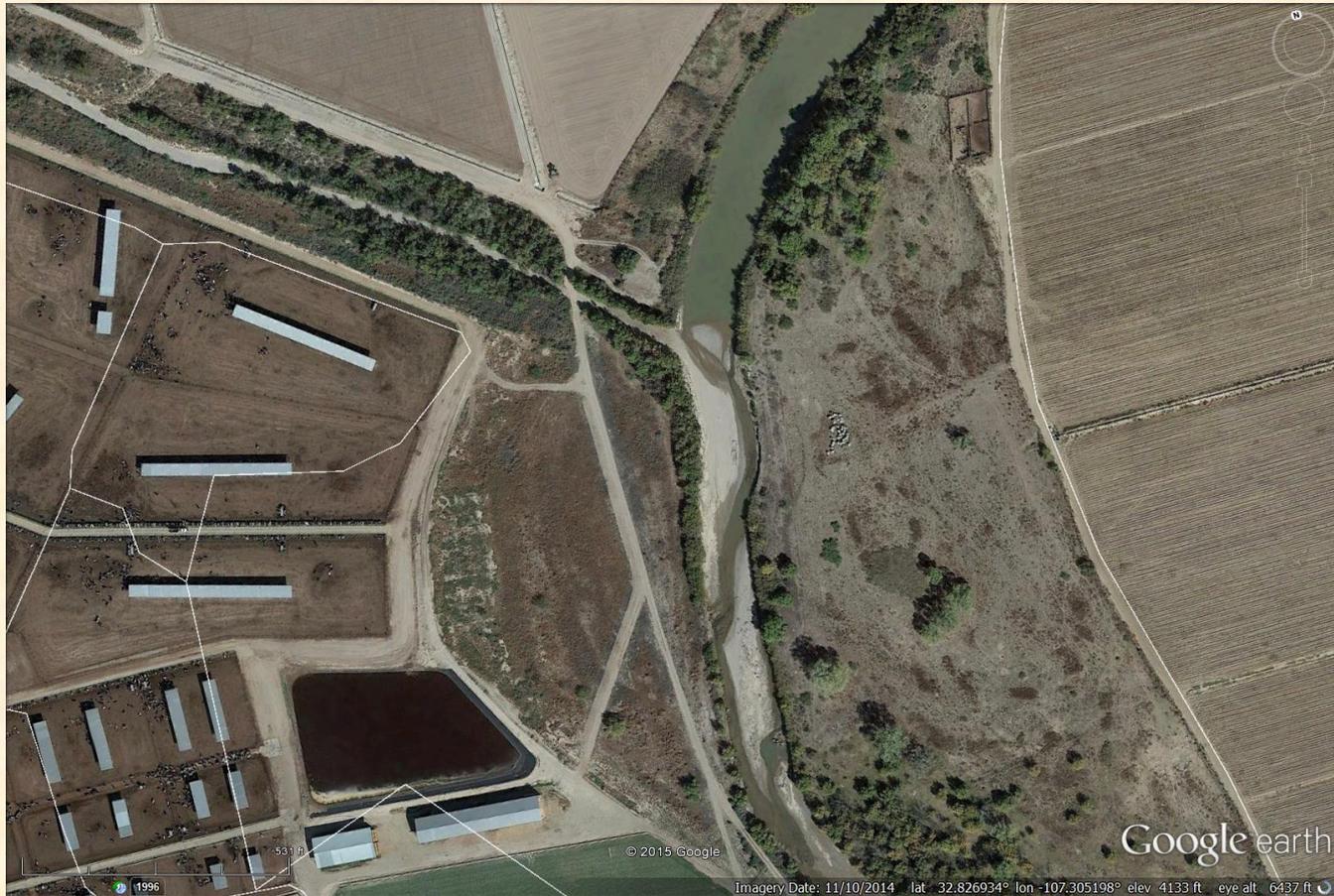
Removed Approximately 1,900 CY  
March 2 thru 5, 2015

# TRUJILLO ARROYO



Removed Approximately 8,850 CY  
February 17 thru March 2, 2015

# MONTOYA ARROYO



Removed Approximately 4,750 CY  
February 9 thru 12, 2015

# HOLGUIN ARROYO



Removed Approximately 4,000 CY  
March 4 thru 10, 2015

# TIERRA BLANCA/GREEN ARROYOS



Removed Approximately 5,700 CY  
January 29 thru February 5, 2015

# TIERRA BLANCA ARROYO

Before 1/2015



After 2/2015



View North-West at Tierra Blanca Arroyo Outlet

# TIPTON ARROYO



Removed Approximately 1,900 CY  
March 2 thru 5, 2015

# INTERNATIONAL DAM



Start Date: April 14, 2015

Estimated Completion Date: May 8, 2015

# AMERICAN DAM



Start Date: May 4, 2015

Estimated Completion Date: May 29, 2015

# MONTOYA DRAIN



Start Date: March 24, 2015

Estimated Completion Date: May 29, 2015

# MONTOYA DRAIN

Before 4/2013



View North at Montoya Drain Outlet

Total Sediment Removed to Date: 37,000 CY  
Estimated Amount to be Removed: 60,000 CY

After 4/2015



# MONTOYA DRAIN

Before 4/2013



View East, Downstream

After 4/2015



# City of Sunland Park Storm Drains



# City of Sunland Park Storm Drains



Culvert #1  
Before

Culvert #1  
After



# QUESTIONS?

