



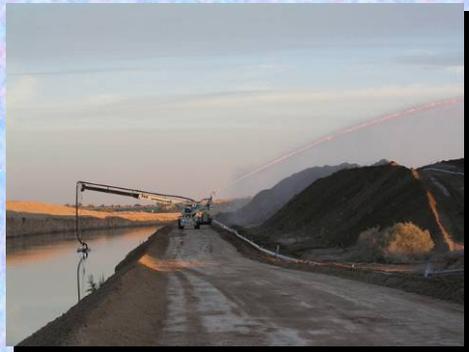
# All-American Canal Lining Project

**Presentation To:  
International Boundary and  
Water Commission  
(Citizens Task Force)**

**By**

**Mike King, IID Manager, Water Department**

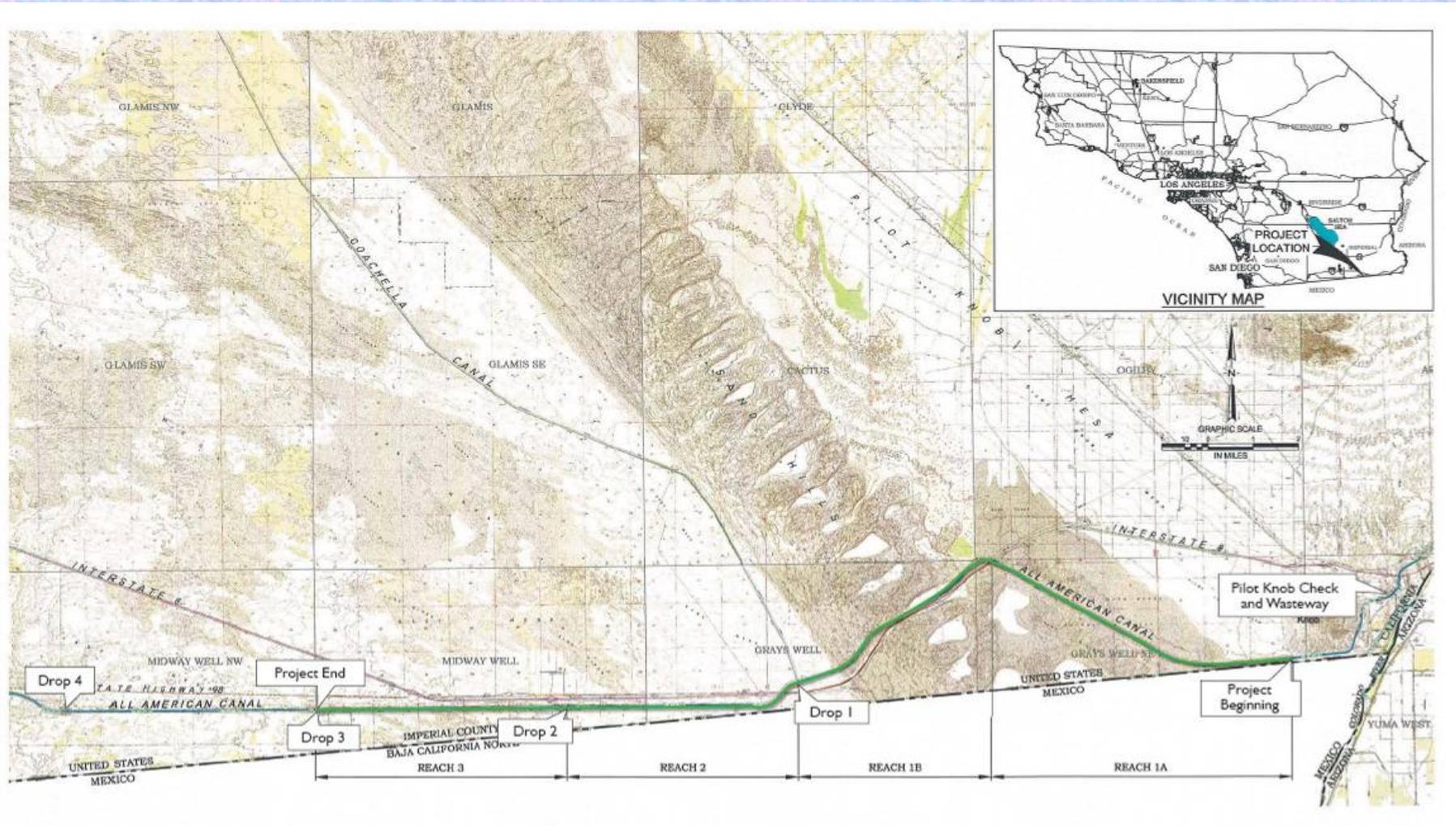
**August 2007**



# Colorado River Basin



# AACL P Project Location



# AACLP – FACT SHEET

- Constructed in the 1930s by Reclamation
- New Canal will conserve (seepage control by lining 23 miles of canal) 67,700 acre feet per year. Enough water for 500,000 people.
- Approximate lined canal construction cost is \$250M.
- Project being directed by the All-American Canal Coordinating Committee (IID/San Diego County Water Authority/Reclamation)

# History of the All-American Canal Lining Project

- Congressional authorization of the Project was under PL 100-675, Title II signed into law by the President on November 17, 1988
- Approved the Record of Decision (ROD) on July 29, 1994
- Reclamation issued a Supplemental Information Report dated Jan 12, 2006 which determined that a supplemental EIS/EIR was not required.
- Project funding has two sources. State of California and San Diego County Water Authority.
- Quantification Settlement Agreement (QSA) and its related documents signed on October 10, 2003 with the Project a key component to reduce California's water use to its 4.4 million acre-feet apportionment.
- Legal Challenges resolved, Project is under construction.

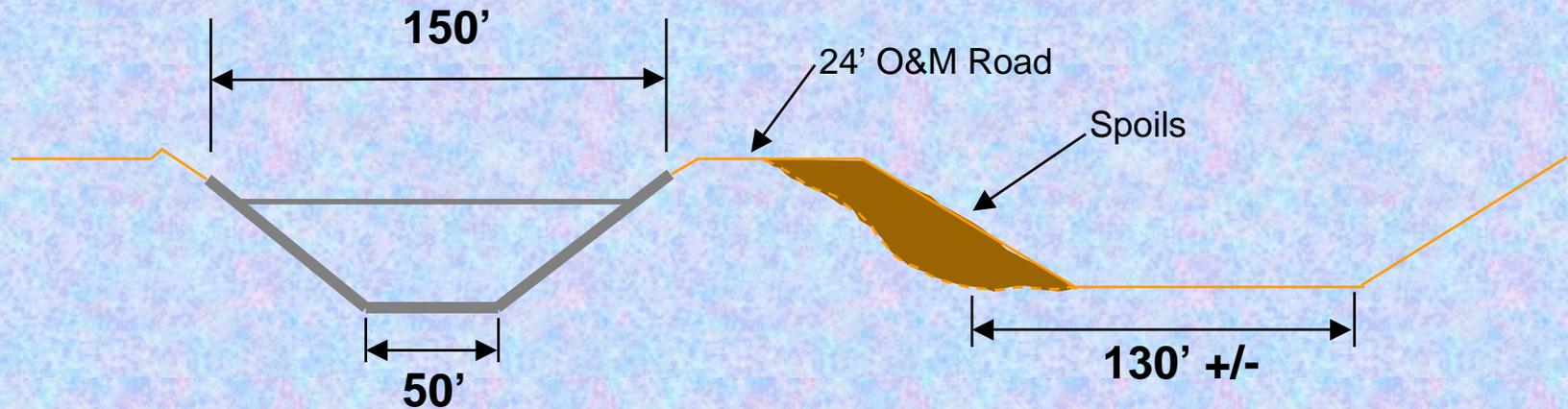
# AACLP Project Elements

- Construct approximately 23 miles of lined canal adjacent to existing canal
- Design is complete and construction started June 2007
- Construction is expected to be completed in Spring 2010

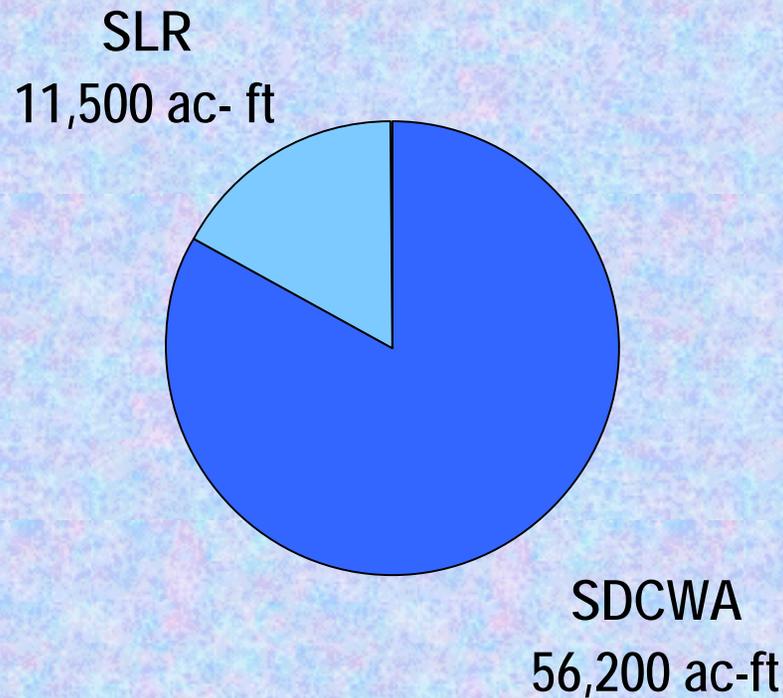
# All-American Canal Typical Section

**Proposed Lined Section**  
1.75H:1V side slope Reaches 1 & 2  
2H:1V side slope Reach 3

**Existing Unlined Section**  
2H:1V side slope



# 67,700 Acre-Feet per Year of Water Conserved from Lining the All-American Canal



# AACLP Project Organization

## All-American Canal Coordinating Committee (Voting Members)

- IID – Michael King
- SDCWA – Kenneth Steele
- Chairman – Van Tenney

**IID/DWR AACLP  
Funding Agreement**

**IID Executive Program Manager  
*Todd Shields***

### Participants (Non-Voting)

- *Reclamation – John English*
- *DWR – Chuck Keene*
- *San Luis Rey*
- *CVWD*
- *PVID*

**Parsons Project Manager  
*Uli Kappus***

### Design

**Bookman-Edmonston  
Project Manager – *Wayne Dahl***

- *Montgomery Watson Harza*
- *Various Consultants*
- Canal Design - Dewatering
- Sedimentation - Soils
- Flow Measurement/  
Operations
- Cost Estimating
- Construction Techniques

### Design Coordination

**Coordinator –  
*Walt Long***

- *Geotechnics, Inc.*
- *Hale Engineering*

### Construction Management

**Construction Manager –  
*Don Crumbley***

### Environmental Activities

**Environmental  
Coordinator –  
*Michel Remington, IID***

- *AFM Affiliates*  
*Cultural Resources*
- **Dr. Paul Krausman**  
*Large Mammal Surveys*
- **EcoSystems Restoration  
Associates**  
*Wetlands Enhancement*
- **RECON**
- **Parsons**

# AACLP OM&R Coordinating Committee

## Voting Members

**SDCWA**

**IID**

**SLR**

**Member Jointly Appointed**

## Non-Voting Member

**USBR**

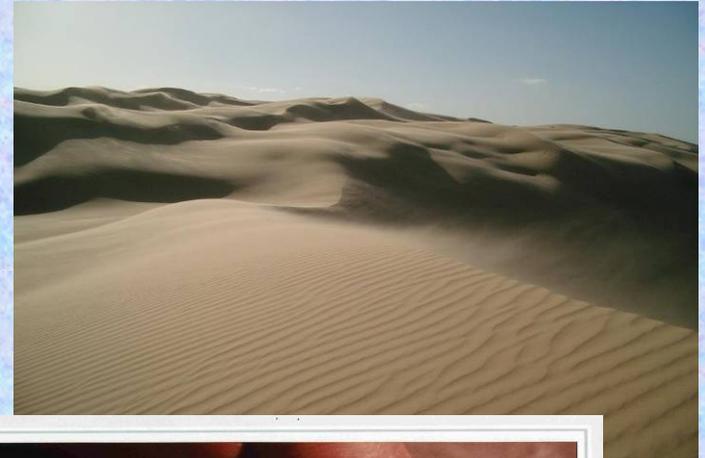
**IID prepares O&M plan for All-American Canal**

# Project Challenges

- Project team is working diligently on a fast-track basis;
- Addressing design, construction, scheduling, and cost issues to minimize costs (construction, environmental, and operations/maintenance); and
- Optimizing the new canal facilities and the required environmental mitigation.

# Environmental Program Objectives

- Compliance with Multiple Requirements
- Air Quality
- Cultural Resources
- Endangered Species
- Hazardous Materials/Solid Waste
- Recreation
- Transportation
- Vegetation
- Water Quality/Stormwater
- Wetlands
- Wildlife



# Challenge of Public Access and Recreation During Construction

- Coordinating Construction and Public Use Near Work Areas
- Interagency Coordination During Peak Use Periods
- Public Information Distribution is Essential
- Interagency Recreation and Transportation Management Plan



**Final Draft**

Recreation and Transportation Management Plan  
for the  
All American Canal Lining Project



Prepared by  
The All American Canal Lining Project Work Group  
Project Planning Committee



August 8, 2007

DRAFT - CLIENT-PRIVILEGED DOCUMENT - NOT FOR DISTRIBUTION  
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8/8/07

# Safety Program



# Construction Issues

- No Interruption of Water Flow
- Remote Location
- Migratory Bird Nesting Constraints
- Weather (120° F)
- Limited Resources



# Current Status



- Design is complete and the project started construction in June 2007
- First major concrete pour completed on August 8, 2007
- Current schedule indicates construction completion in Spring 2010

# Original Construction



# Construction Photos



# Construction Photos



# Construction Photos



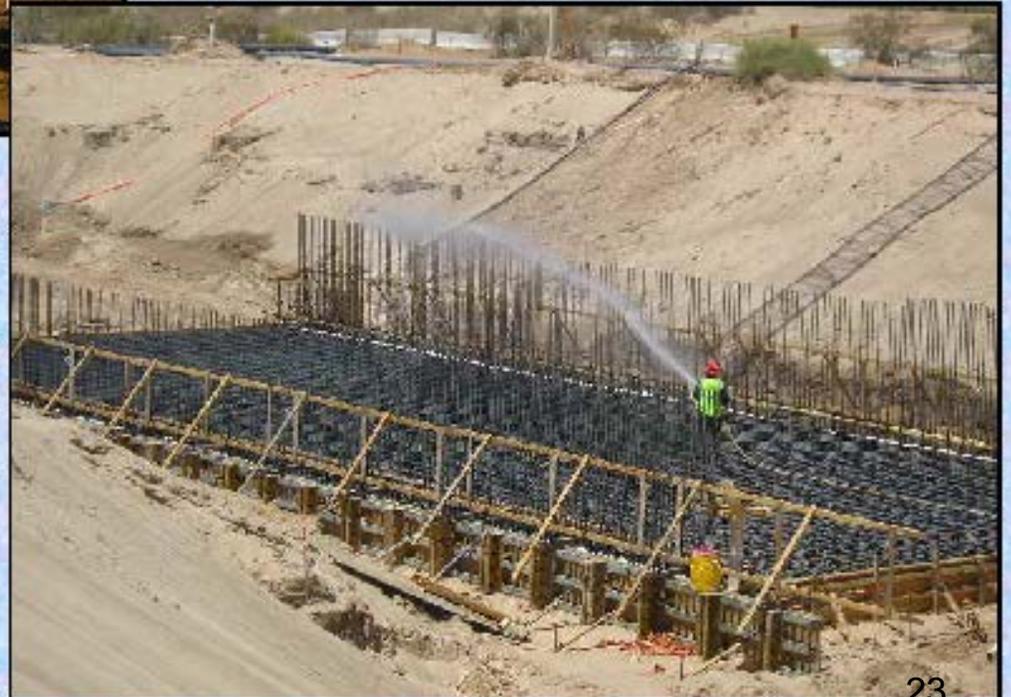
# Construction Photos



# Construction Photos



# Construction Photos



# Construction Photos



# Reach 1A – 1B



Temporary Bridge at I-9 Pile Driving



Night Shift Excavating Reach 1A



Excavating Canal Facing West Reach 2



**Cutting Down to Prism For Flume Slab**

**Thank You  
Questions?**