

# FISCAL YEARS 2004-2006 ACTION ITEMS

## 💧 **Baseline Work:**

- Imperial, Laguna, and Palo Verde Dams: Tabletop and Functional Exercises
- Lower Colorado River: Vegetation clearing of Giant Salvinia Molesta
- Laguna Settling Basin: Extend basin
- Main Outlet Drain, Main Outlet Drain Extension, and Bypass Drain: Conduct outages
- Manchester Quarry: Finalize permit
- Metropolitan Water District:
  - Cooperative Research and Development Agreement
  - Brine crystallizer testing
- Prepare and conduct land reviews
- City of Somerton: Corrosion testing
- Water Conservation: Technical Assistance to area water and irrigation districts
- Water Delivery to irrigation districts and Mexico
- Yuma Desalting Plant:
  - Corrosion studies
  - Cellulose acetate elements and forward osmosis testing
  - Polyamide element testing



**Imperial Dam - RM 49.2**

**Invasive Species: Giant Salvinia Molesta**



## 💧 Initiative Work:

- Agnes Wilson Bridge: Repair bankline on Arizona side
- All American Canal:
  - Reservoir construction
  - Canal lining project
- Bard Irrigation District and Quechan Indian Tribe: Rehabilitation of irrigation system
- Bullhead City: Rotary Park improvement project Phase II
- California Channel: Riparian habitat restoration
- Cibola Bridge: Deck repair at RM 93.6
- Coachella Canal: Lining project
- Coachella Valley: Coral Mountain Regional Park construction
- Colorado and Gila Rivers: Alignment of confluence
- Draper Lake: Restoration project
- Environmental and Interagency coordination: Water resources planning
- Flat Tailed Horned Lizard studies
- Gila Levee: Confine direct flow away from levee
- Gila Project: Cultural Resources Programmatic Agreement
- Groundwater management Supervisory Control and Data Acquisition (SCADA) System study and design
- Lower Colorado River: Well inventory



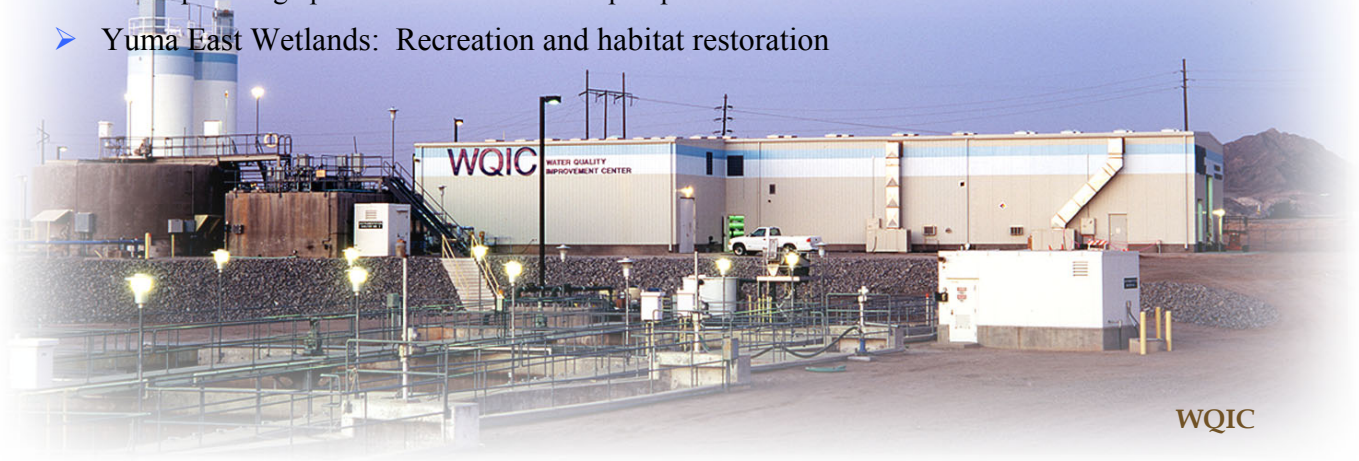
California Channel: Riparian habitat restoration - RM 56

## 💧 Initiative Work Continued:

- Main Outlet Drain, Main Outlet Drain Extension, Drainage Pump Outlet Channel and Bypass Drain: Upgrades and repairs
- Native American Affairs outreach and technical assistance activities
- Needles and Topock: Repair severe erosion to bankline above basin
- Palo Verde Dam: Bankline stabilization on Arizona side below Dam - RM 133.7 to 132.6
- Razorback Sucker studies
- Technical Assistance to states: Planning
- Walker Lake: Rehabilitation project
- Yuma Area Office:
  - Upgrade Local Area Network
  - Develop and implement Environmental Management System Plan
- Yuma Desalting Plant:
  - Aluminum Bronze Evaluation Research Unit Repair
  - Modify clearwell pH control system
  - Permit activities
  - Replacement waters to meet Title I objectives
  - Replace control block isolation valves
  - Replace high pressure reverse osmosis pumps
- Yuma East Wetlands: Recreation and habitat restoration



Drainage Pump Outlet Channel



WQIC

## ◆ **Nine Baseline Work activities**

- **Bankline Maintenance:** Maintenance work associated with banklines, jetties, culverts, weirs, roads (which include levees, access roads, banklines, canals, Highway 76), bridges, training structures, washfans, quarries, and stockpile sites.



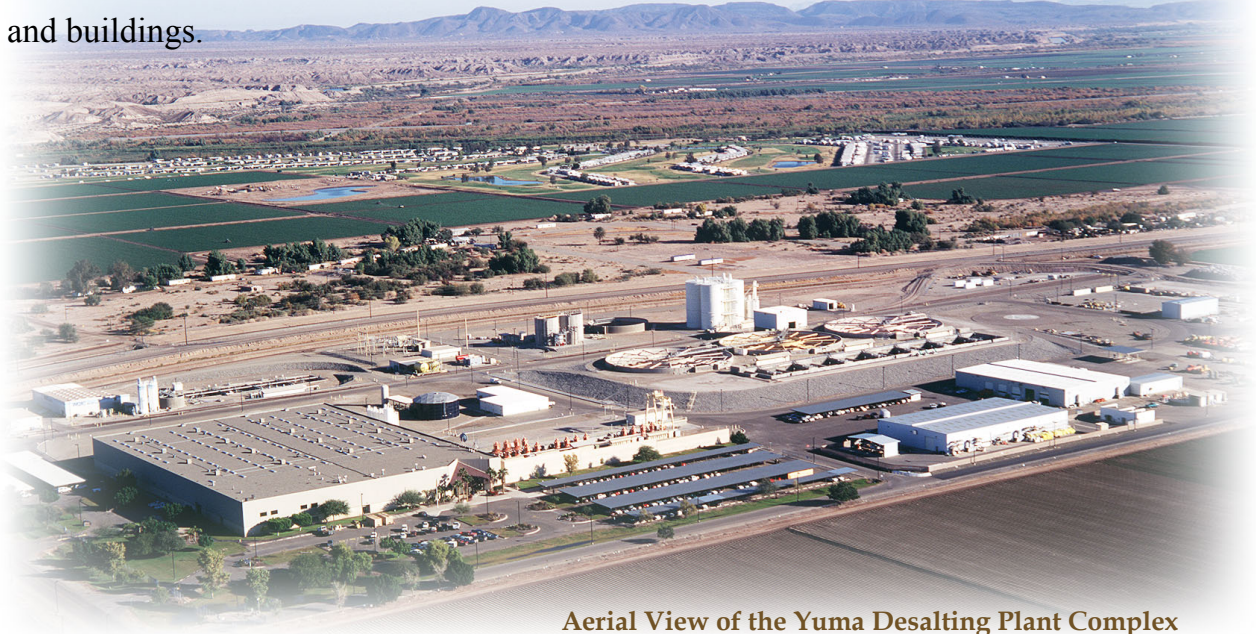
**Destabilized Bankline**

- **Basin Dredging:** Sediment removal activities at the Laguna Settling basin and the Imperial Dam Reservoir to reduce the total amount of sediment reaching Mexico, improve the quality and quantity of water received at the Gila Gravity Canal Headworks, restore sediment trap efficiency, improve small boat navigation and safety, and allow proper operation of Imperial Dam.



**Cibola Dredge**

- **Buildings & Grounds:** Maintenance work associated with facilities owned and used by YAO, including the Ehrenberg, Laguna, Needles, and Yuma offices. Operational functions include upkeep of grounds, potable water, sewage, communication, security, fire protection, and waste disposal systems, and warehouse processes. Maintenance functions include fencing and gate repairs and upkeep of parking, yards, and storage areas, small equipment, and buildings.



Aerial View of the Yuma Desalting Plant Complex

- **Conservation & Environmental Activities:** Work associated with restoration, conservation, or creation of critical habitat; conservation of endangered or threatened species; promotion of water and energy conservation and pollution prevention; control of invasive species; environmental stewardship; and the identification of pertinent hazardous material requirements.



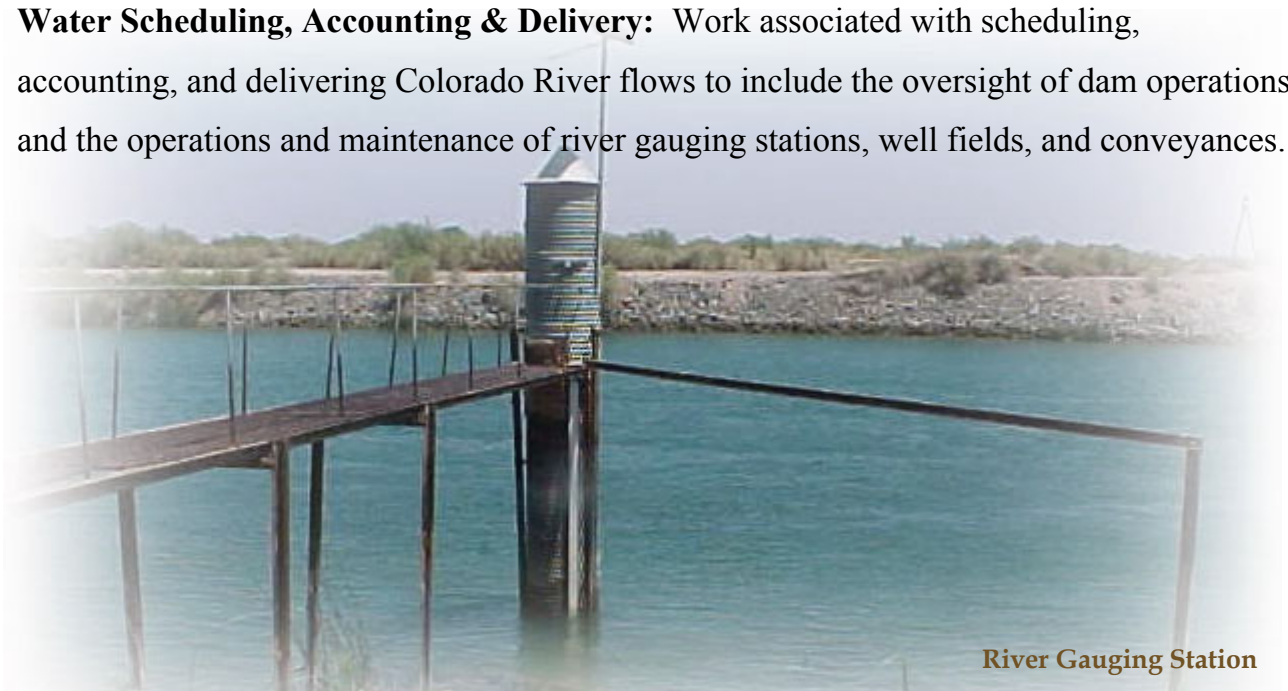
Environmental Mitigation

- **Management & Oversight:** Activities associated with general office functions required to maintain the operation of the YAO and associated facilities. Included are various functions not found under other baseline activities and involve such actions as scheduling, conducting, and attending office meetings; implementing public outreach programs; performing supervisory activities; providing budgetary, planning, and analytical services; and conducting various other clerical and administrative activities.



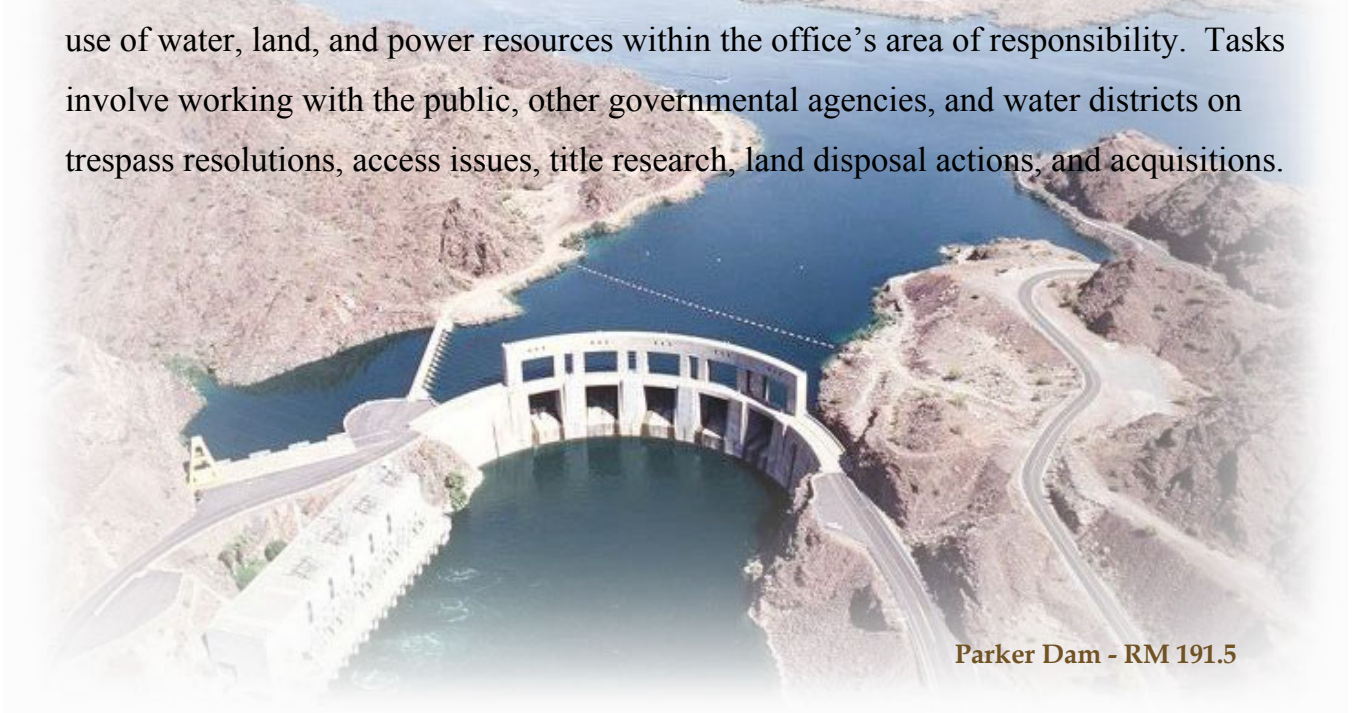
Public Outreach

- **Water Scheduling, Accounting & Delivery:** Work associated with scheduling, accounting, and delivering Colorado River flows to include the oversight of dam operations and the operations and maintenance of river gauging stations, well fields, and conveyances.



River Gauging Station

- **Water, Lands & Power Assistance:** Work associated with the development and administration of agreements such as contracts, grants, easements, and rights-of-way for the use of water, land, and power resources within the office's area of responsibility. Tasks involve working with the public, other governmental agencies, and water districts on trespass resolutions, access issues, title research, land disposal actions, and acquisitions.



Parker Dam - RM 191.5

- **Well field & Conveyance Systems:** Maintenance work associated with Yuma area wells and the four well fields: Yuma Mesa, Yuma Valley, South Gila, and 242, including pumps, buildings, and grounds; Conveyance systems' canals and pipes; and aquifer information including acquisition, maintenance, and analysis.



Lining of Bypass Drain

- **Yuma Desalting Plant Operations & Maintenance:** Maintenance activities associated with the operation and maintenance of the Water Quality Improvement Center (WQIC). This includes maintaining the Yuma Desalting Plant (YDP) in ready reserve status and maintaining its ability to serve the water and power needs of the area office’s building and grounds.



Yuma Desalting Plant Process Area

## 💧 Initiative Work

The following are a few examples of our projected FY04-06 initiative work.

- **Lower Cibola Bridge Repair RM 93.6:** The Cibola Bridge is primarily a farm and wildlife refuge access structure. The existing deck has delaminated and spalled in numerous areas, exposing the reinforcing steel. Load capacity has been reduced, traffic lanes have been cut to one, and vehicles have been using the center lane to safely cross. In concert with these problems, the guardrails need repair and/or replacement to bring this bridge up to Federal Highway standards.

Cibola Bridge – RM 93.6





- **Flat Tailed Horned Lizard:** This activity supports field studies and research conducted toward achieving the goals and objectives established in a multi-agency conservation agreement for management of the Flat Tailed Horned Lizard (FTHL), of which Reclamation is a signatory.

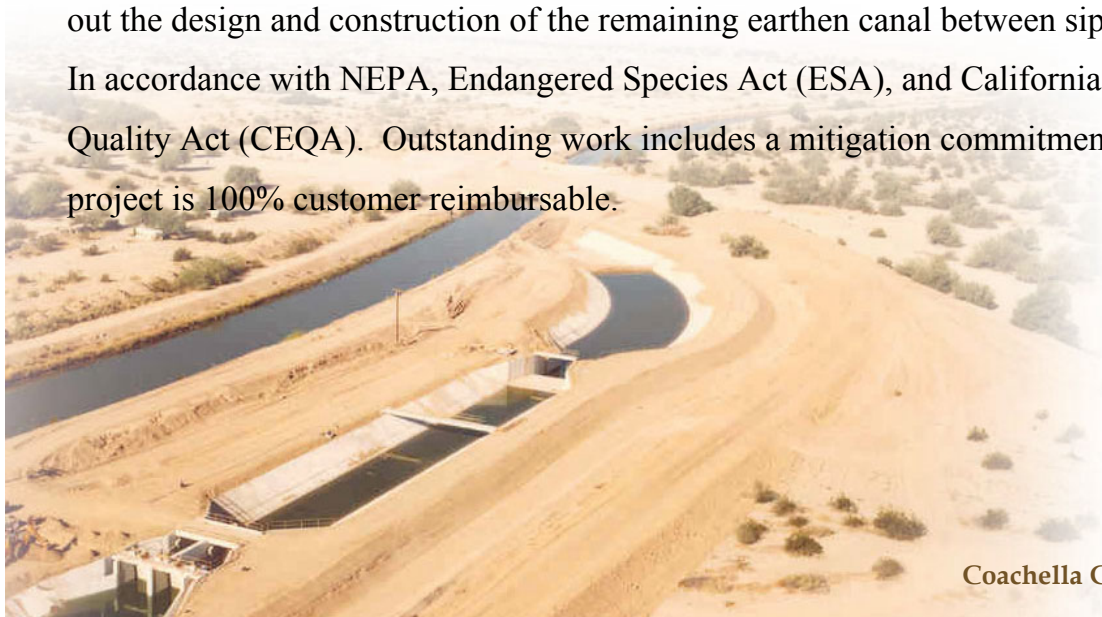
Examples of studies include surveys to determine population, distribution, and relative abundance of FTHLs in both designated management areas and known occupied

habitat. Aerial photography, mapping, and analysis of habitat disturbances in management areas are also necessary.



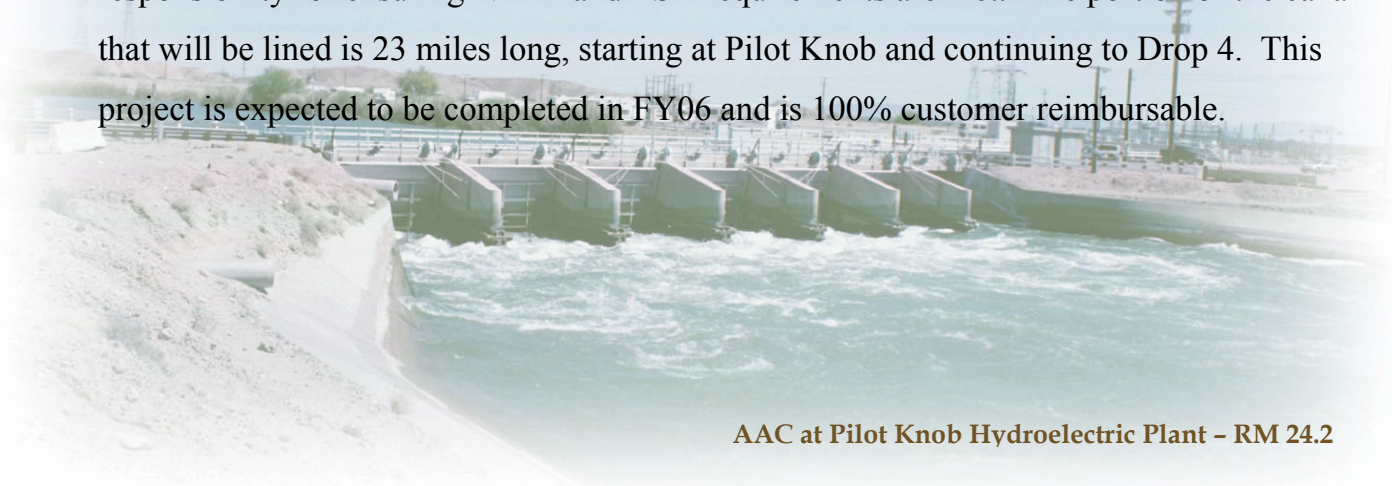
**Flat Tailed Horned Lizard**

- **Coachella Canal Lining Project:** The Coachella Valley Water District receives water through a turnout on the All American Canal. The lining of the Coachella Canal will save approximately 30,858 Acre Feet (AF) annually. The purpose of this initiative is to contract out the design and construction of the remaining earthen canal between siphons 7 and 32. In accordance with NEPA, Endangered Species Act (ESA), and California Environmental Quality Act (CEQA). Outstanding work includes a mitigation commitment plan. This project is 100% customer reimbursable.



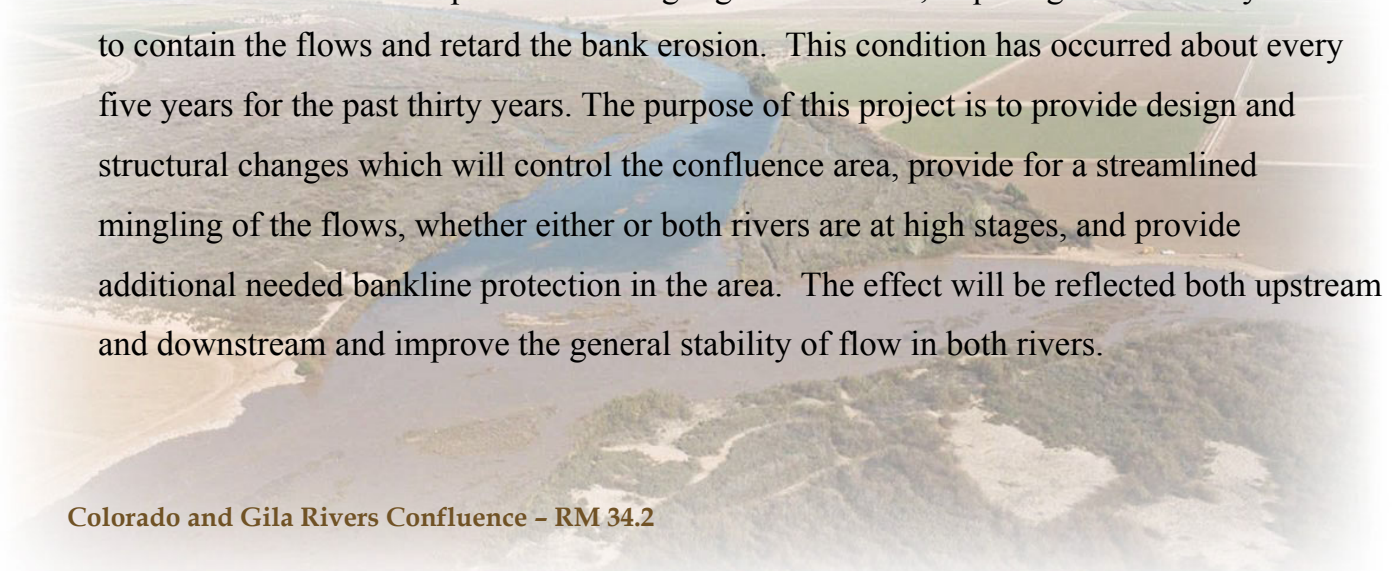
**Coachella Canal**

- **All American Canal Lining:** The All American Canal (AAC) lining is critical to conserving water, estimated at 67,000 AF annually, and enabling California to meet its 4.4 MAF goal. Imperial Irrigation District (IID) is acting as the lead agency for the design and construction of the project, and has responsibility for ensuring all CEQA requirements are met. Reclamation is the lead agency for coordination of the environmental compliance with responsibility for ensuring NEPA and ESA requirements are met. The portion of the canal that will be lined is 23 miles long, starting at Pilot Knob and continuing to Drop 4. This project is expected to be completed in FY06 and is 100% customer reimbursable.



AAC at Pilot Knob Hydroelectric Plant - RM 24.2

- **Alignment of Colorado and Gila Rivers Confluence:** The confluence of the Gila and Colorado Rivers is in an ephemeral state, free to migrate back and forth as much as a half mile, depending on which river is dominant at the time. This movement has created severe bank and bottom erosion problems during high flow events, requiring extraordinary efforts to contain the flows and retard the bank erosion. This condition has occurred about every five years for the past thirty years. The purpose of this project is to provide design and structural changes which will control the confluence area, provide for a streamlined mingling of the flows, whether either or both rivers are at high stages, and provide additional needed bankline protection in the area. The effect will be reflected both upstream and downstream and improve the general stability of flow in both rivers.



Colorado and Gila Rivers Confluence - RM 34.2

- **Native American Affairs:** The Native American Affairs Program supports selected Reclamation activities with Indian tribes in accordance with the Secretary of the Interior’s Indian Trust responsibility. Such activities include making Reclamation resources available to the Indian Country; assisting tribal governments to protect, manage, and develop water and related resources; coordinating and executing technical assistance programs in accordance with the applicable section of Reclamation's implementation plan; supporting the Indian Self-Determination programs; and training Reclamation employees and members of federally recognized tribes in water resources related areas. Additionally, funds will provide for the coordination and administration of this program, including tribal outreach.



**Native American Affairs Technical Assistance**

