

# SANDY RIVER DELTA DAM REMOVAL PROJECT

**Gail Saldana and Michelle Rhodes**

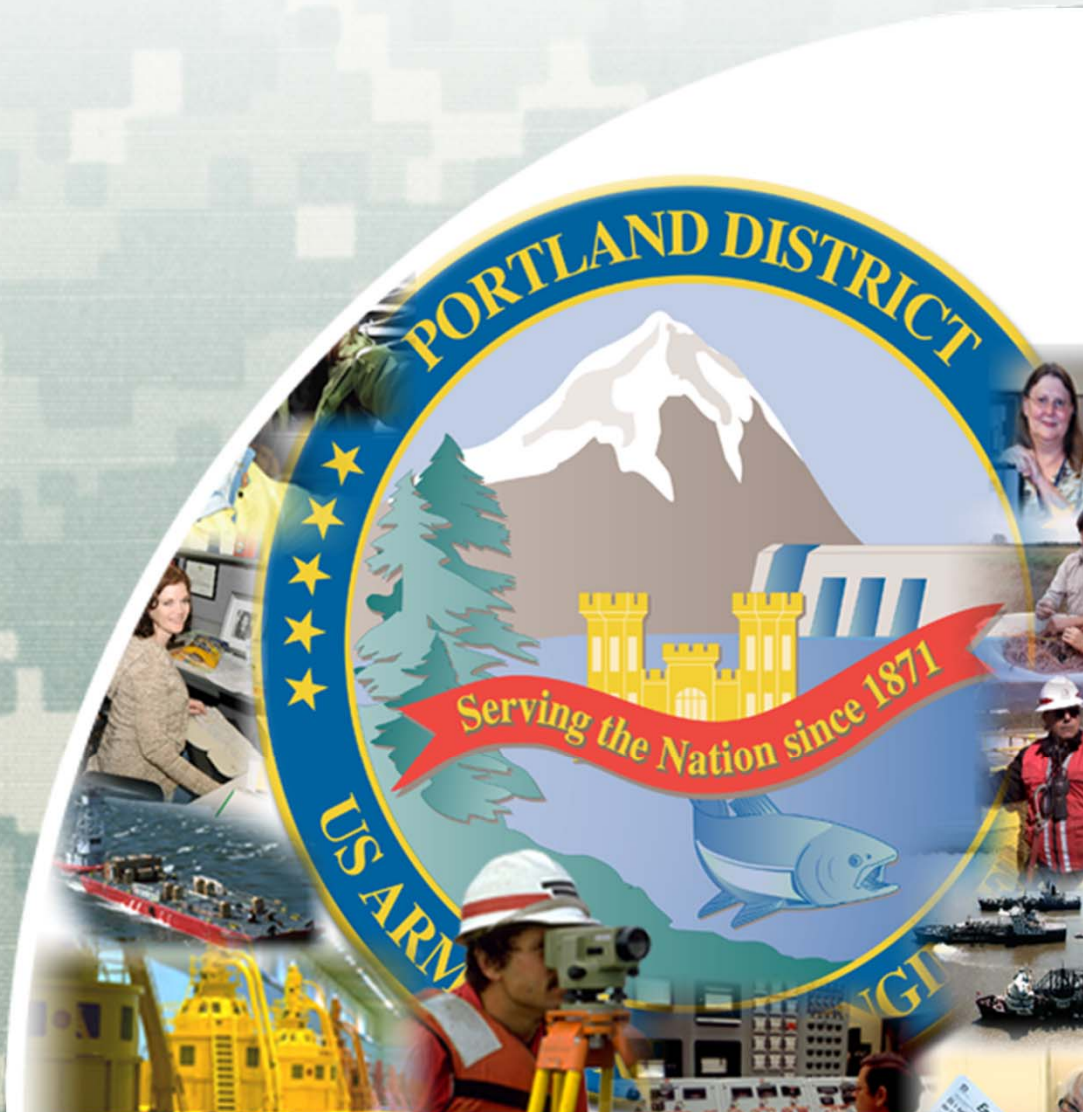
US Army Corps of Engineers

Portland District

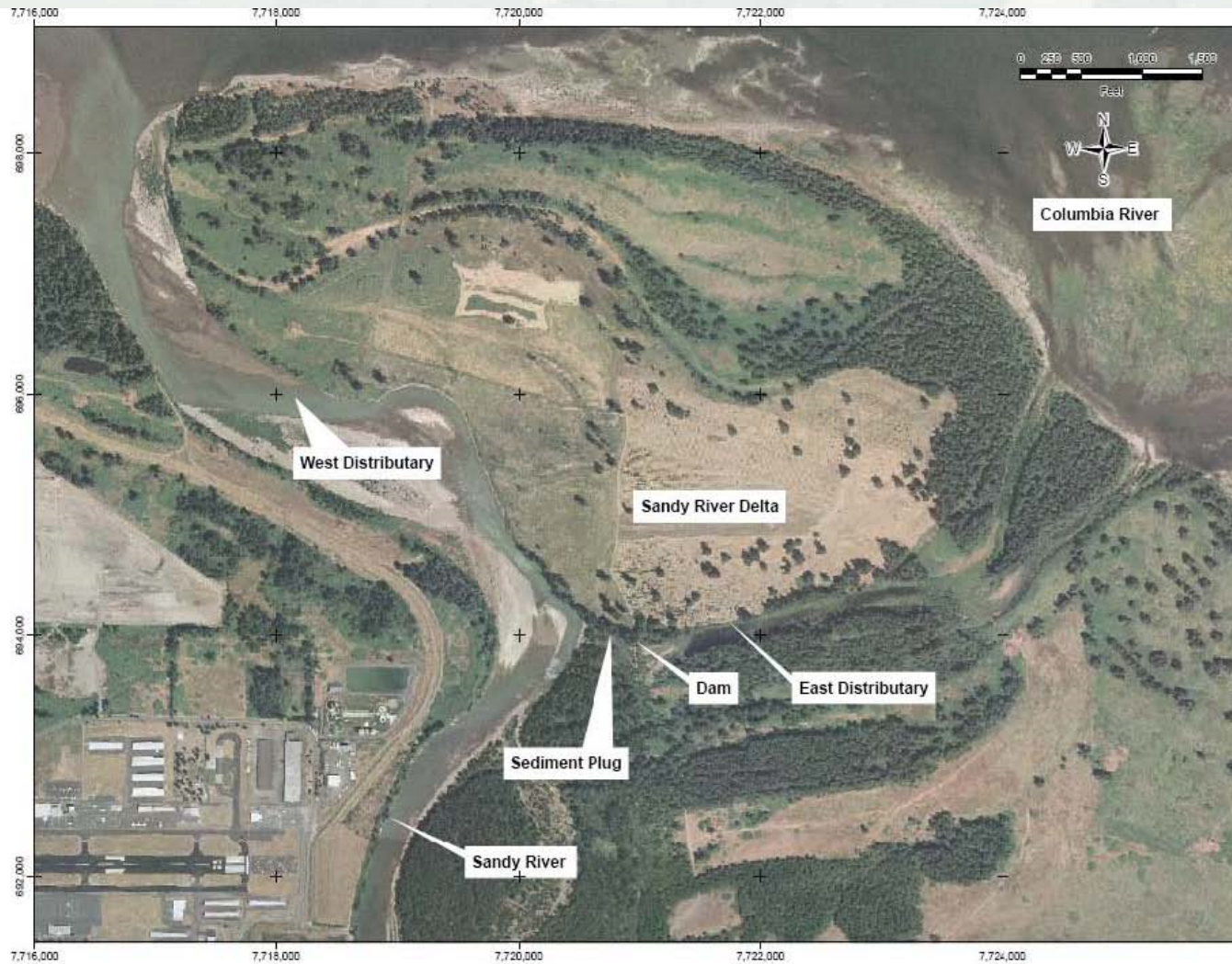
April 14, 2015



US Army Corps of Engineers  
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# Sandy River Delta Vicinity Map



Columbia River Ecosystem Restoration  
Section 536 Project  
Columbia River Mile 121 - 122.5  
Sandy River Delta Restoration

Projection: State Plane, Oregon North Zone, NAD83  
Photo Dates: Summer 2005, Oregon Explorer  
Revised: 8 March 2008  
CEWP-EC-T3 (J. Bertrand)

US Army Corps of Engineers  
Portland District



# Partners

- Forest Service  
Columbia River Gorge National Scenic Area
  
- Bonneville Power Administration
- Oregon Department of Fish and Wildlife
  - Oregon Division of State Lands
    - Portland Water Bureau
  - William's Northwest Natural Gas



# Sandy River Dam 1932 Reinforced 1938



# *Prior to 1930's Dam Construction and Pre-Dam Removal*



Pre-Dam 1930

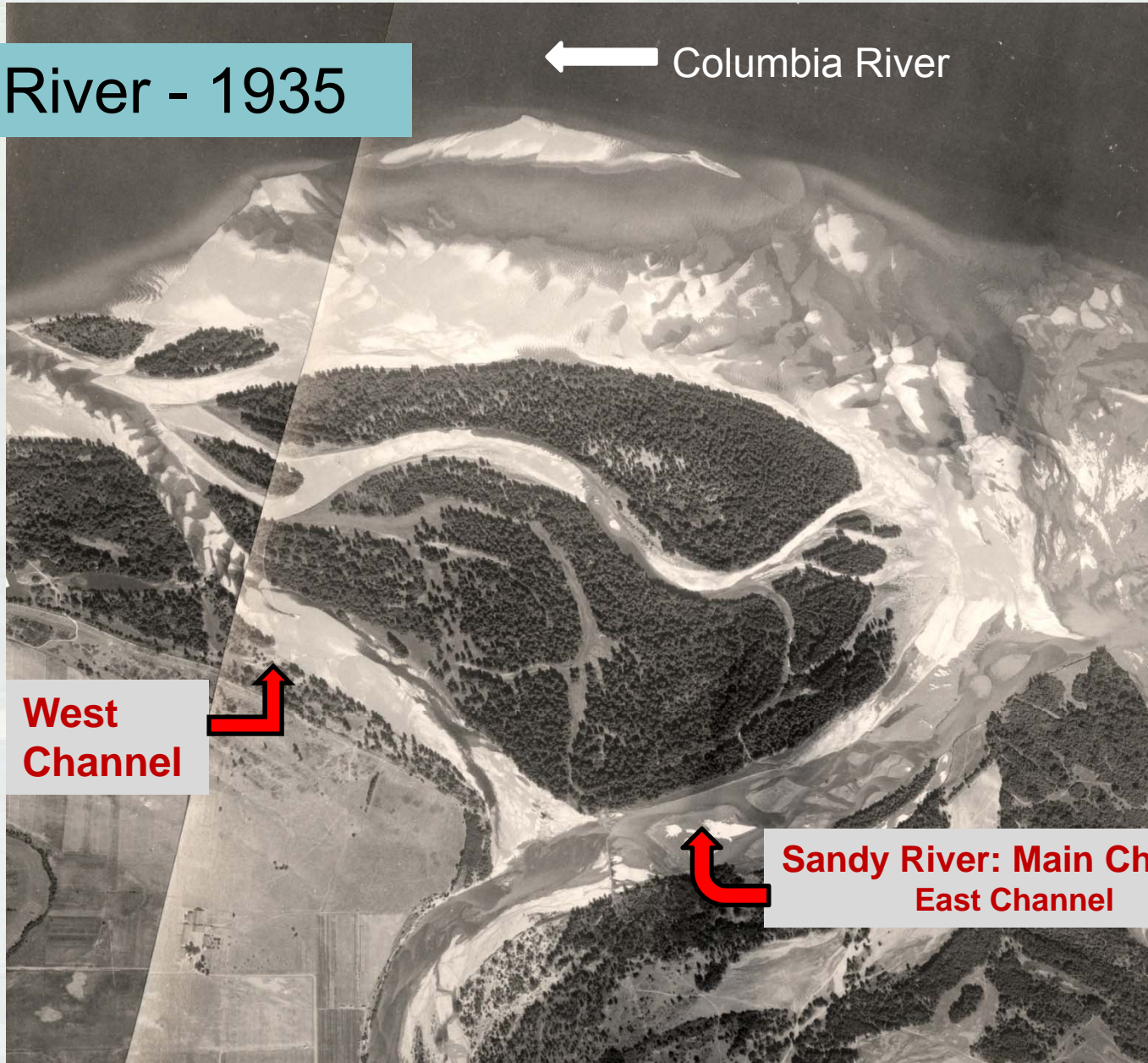


2008  
Dam & Former Channel Area



# Sandy River - 1935

← Columbia River



**West  
Channel**

**Sandy River: Main Channel  
East Channel**



# Sandy River – Prior to Dam Removal



# Purpose and Need





# Endangered Species Act (ESA)

- ESA listed species for the Sandy River Delta Dam Removal Project area:
  - ▶ Spring and fall Chinook
  - ▶ Coho Salmon
  - ▶ Winter Steelhead



# Project Goals

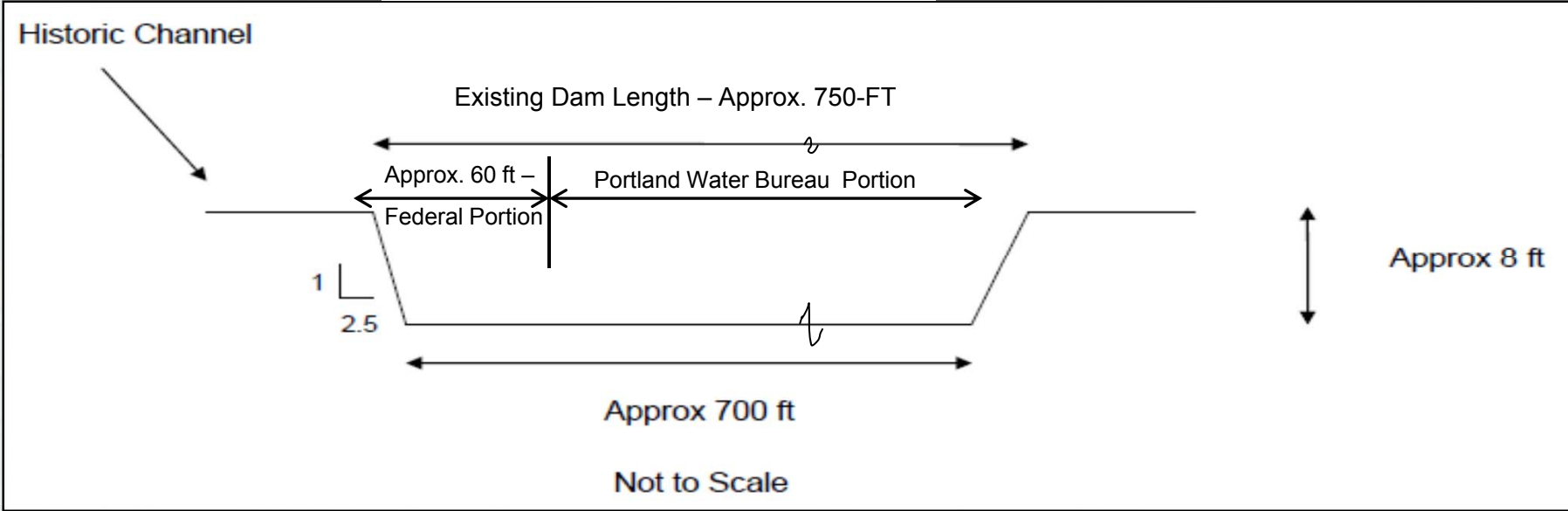
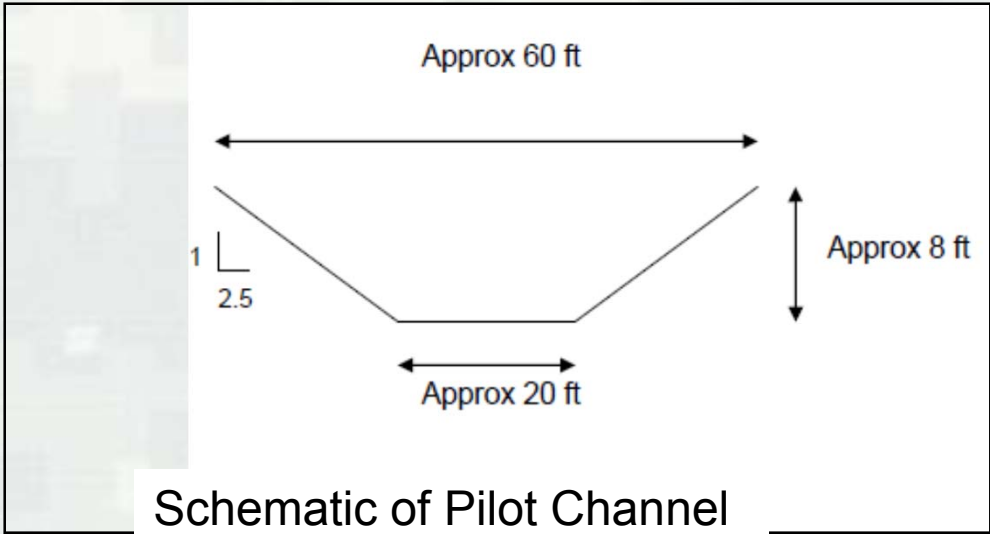
## Habitat benefits for East Channel

- Potential for stranding is minimized
- Depth and Velocity criteria is being met during low flow for listed species
- Year round access directly to the East Channel
- Cooler waters in the East Channel during summer
- Additional shallow water habitat with full dam removal



# Dam Removal and Pilot Channel Locations





Schematic for Full Dam Removal



# Lower Columbia River Ecosystem – Sandy River Delta, Dam Removal – Section 536

- Contract: Small Business – LKE Corporation
- Contract Award: July 2013
- Length of contract: 4 - months



# Dam Excavation





Q(Columbia) = 350,000 cfs  
Q(Sandy) = 2,040 cfs

1935



2008



2014 - After Dam  
Removal



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# Channel Prior to Channel Excavation







## Channel Excavation











After Dam removal 2013





Questions?

