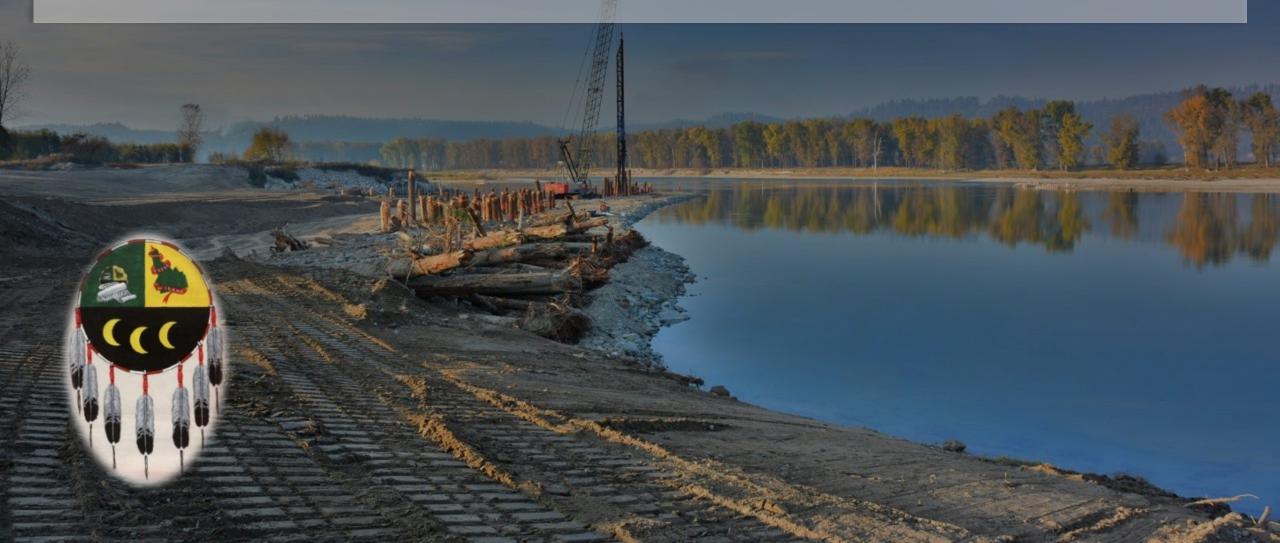
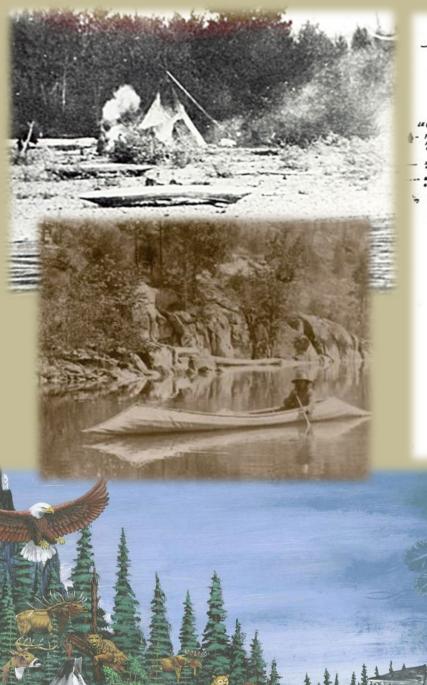
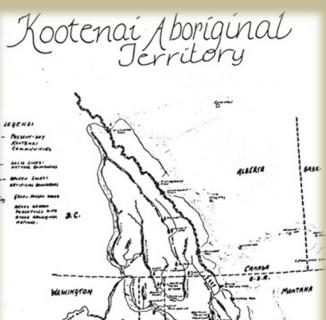
# **Kootenai River Restoration: Fish & Habitat**

#### Kootenai Tribe of Idaho to KVRI, July 18, 2022







IDAHO

ORIGON

#### Natural History of Kootenai Valley





Warne Photos

#### Historical Cottonwood Galleries

#### Early 1900s = 60,000 - 100,000 board feet processed daily





✓ Very low White Sturgeon natural recruitment since 1960's.
✓ Federally endangered 1994 (USA) and 2006 (Canada).
✓ ~ 1,700 (wild) Adult White Sturgeon remain.

NER THE AL

1974

✓ Burbot were functionally extirpated by 1990's.

BEFORE

 There were not enough Burbot to support a hatchery program, nor to use for research.

#### **Current Altered Landscape:**

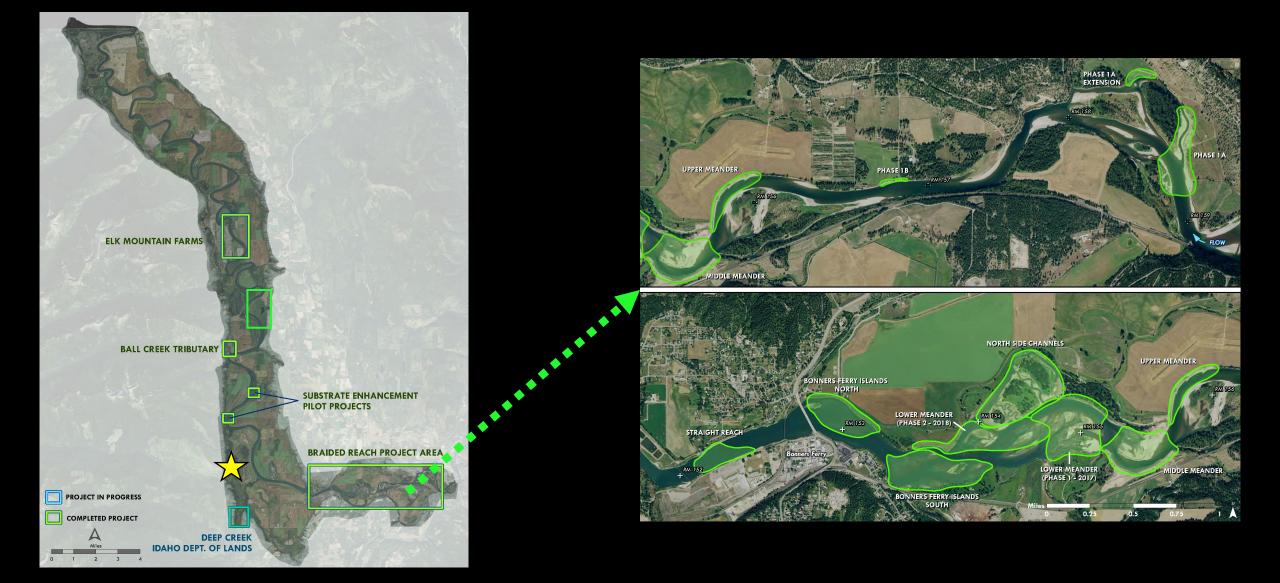
Since 1890's.....

> 100,000 acres of floodplain disconnected.

60,000 acres of wetlands converted.



# KRHRP: Work to Date







#### 09/27/2012

115 2

### **Upper Meander Pile Structure**





# 2012 Project: North Side Channels (pre-project conditions)

# 2012 Project: North Side Channel during construction

CARAMAN SI CORAMARSHER, YES

T.S.

#### 10/24/2012



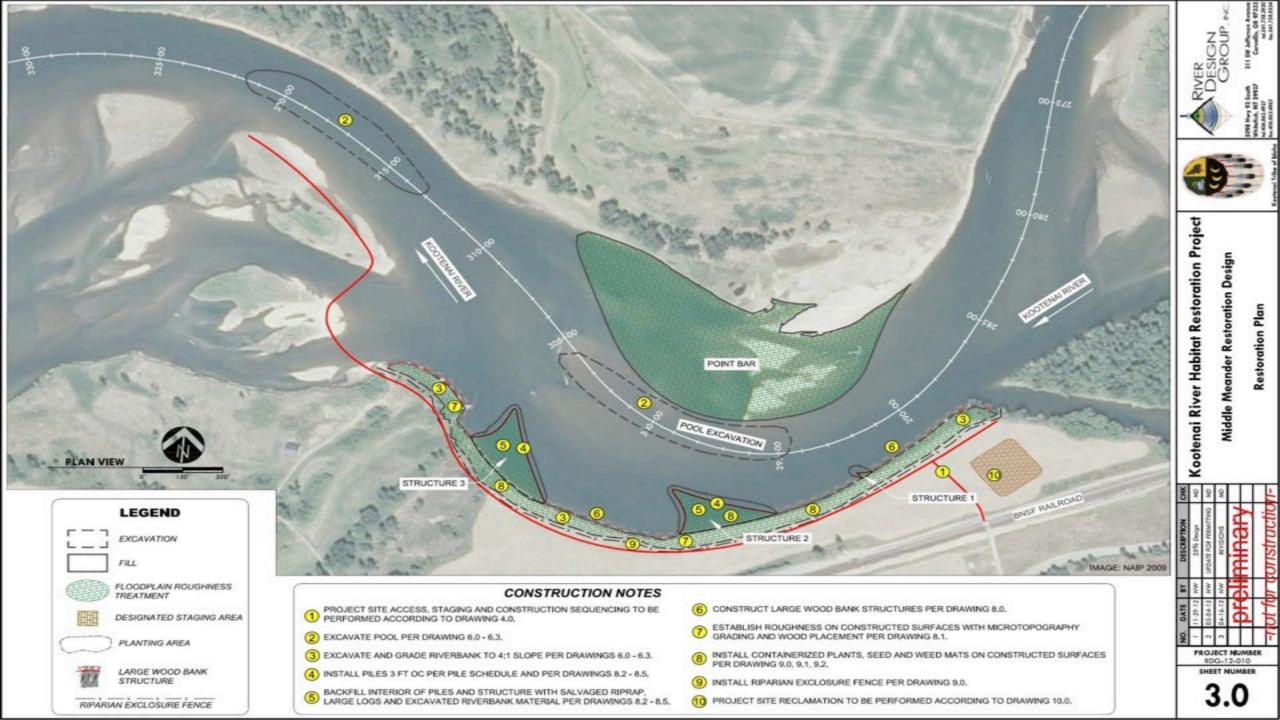
Kokanee in North Side **Channels** Project



### 2013 Project: Middle Meander pre-project condition



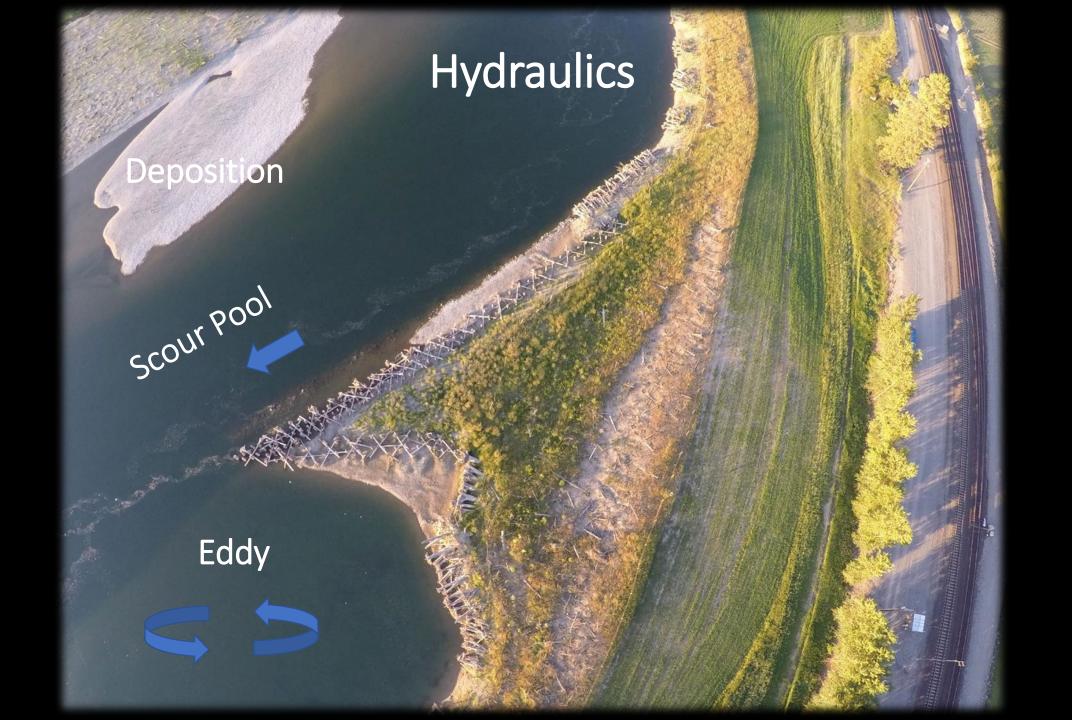




### **Middle Meander - Construction**

















#### Willow Bundles

# **Bank Revegetation**



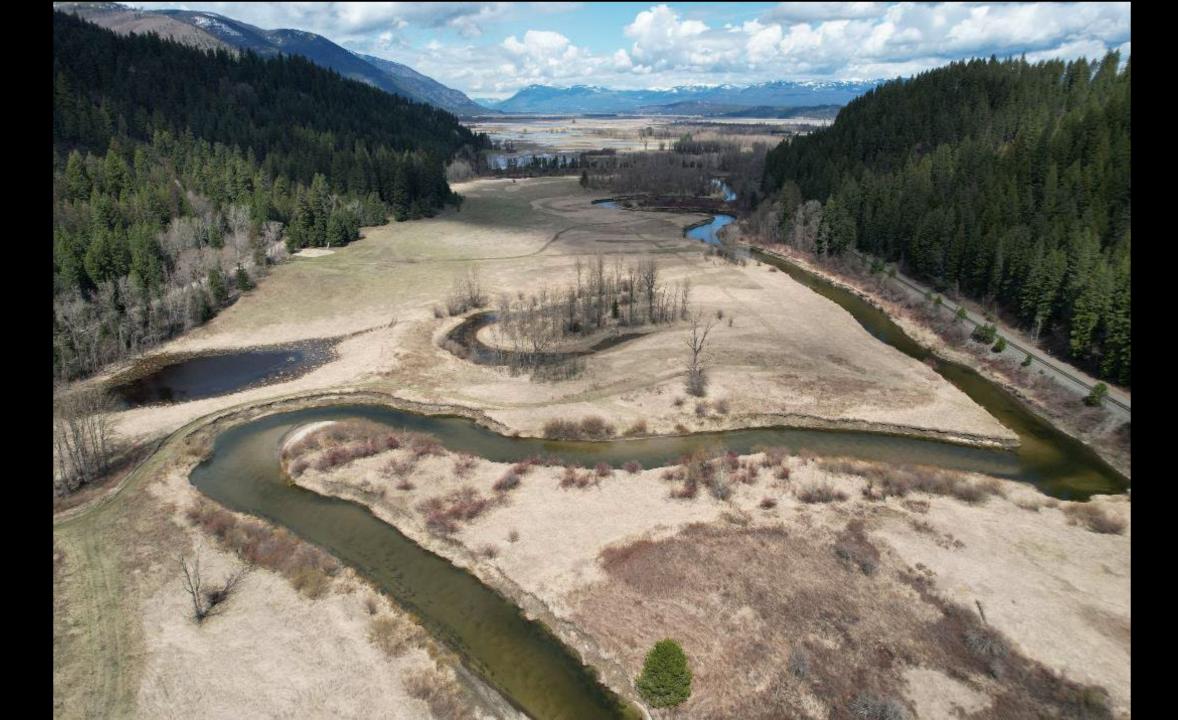
## Substrate Enhancement Pilot Project (SEPP)























Picture of IDFG staff conducting winter hoopnet surveys, which provide almost all recapture data for adult Burbot

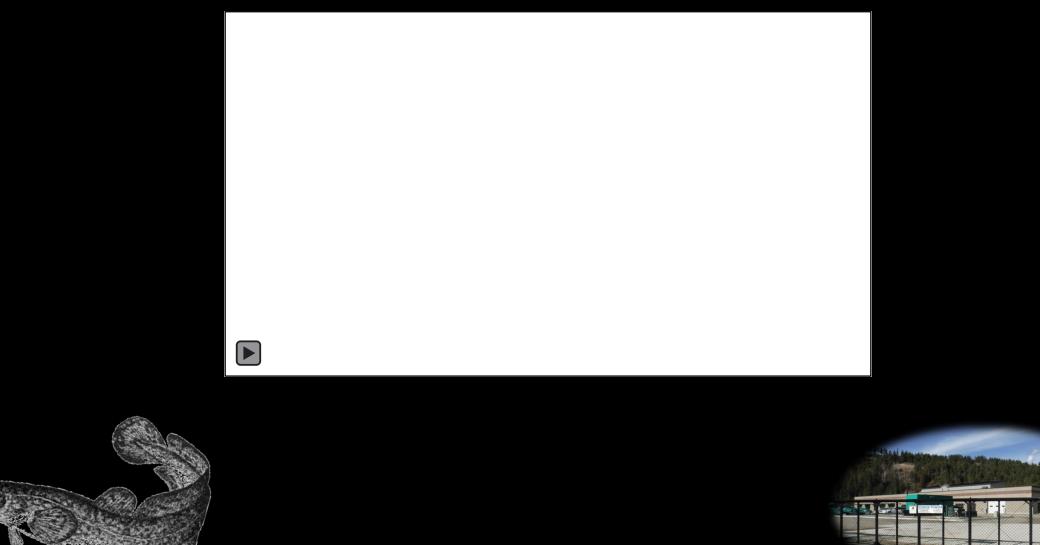
- P

50

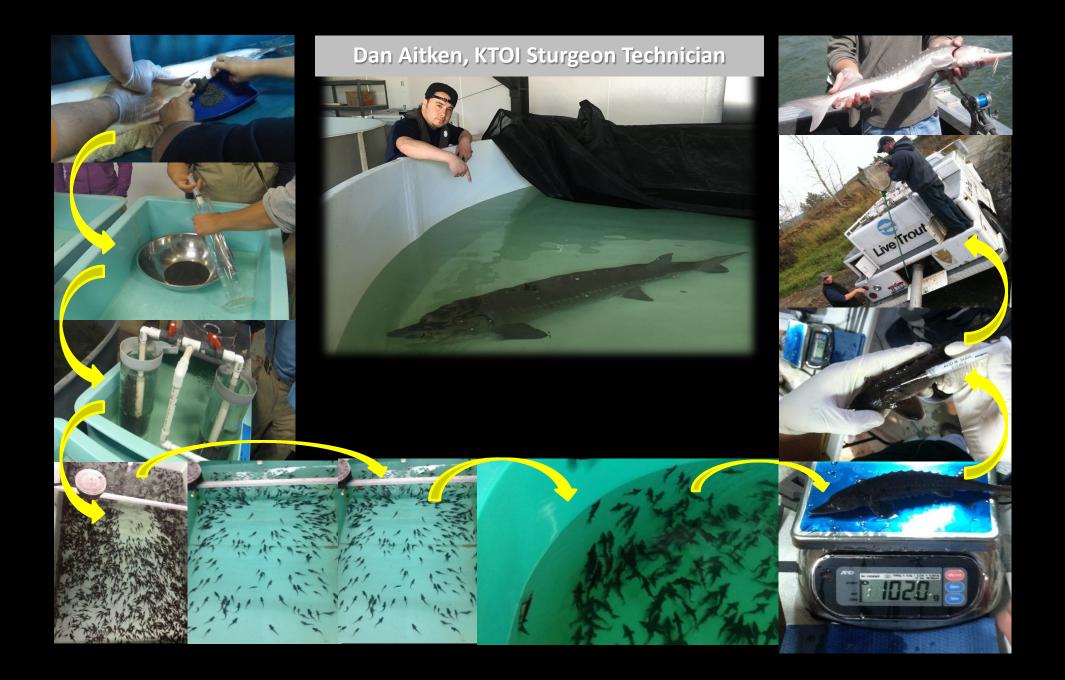
Parental Based Tagging (IDFG)

36

43



Burbot





Parental Based Tagging Univ. CA-Davis: Aviva Fiske, PhD Candidate Dr. Andrea Schreier

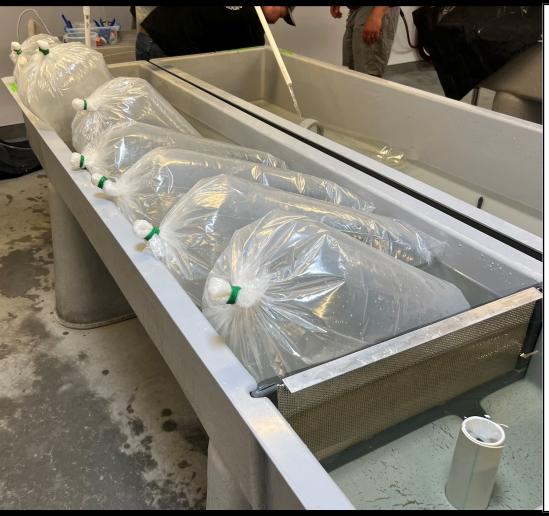


### Dan Aitken, KTOI Sturgeon Technician

### **KTOI Staff Preparing Female**









## 09/27/2012

TIPE





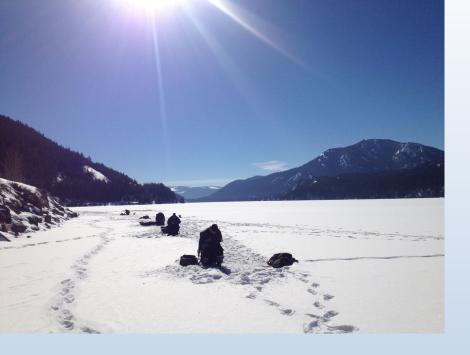


















## Collaboration



# We thank Bonneville Power Administration & Northwest Power and Conservation Council



Committment