Kootenai River Habitat Restoration Program Bonners Ferry Islands and Straight Reach Projects Update



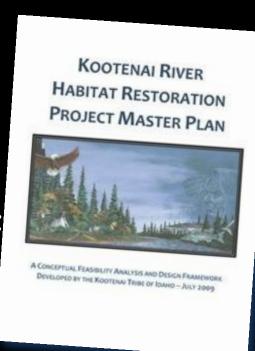


KVRI Briefing July 18, 2016

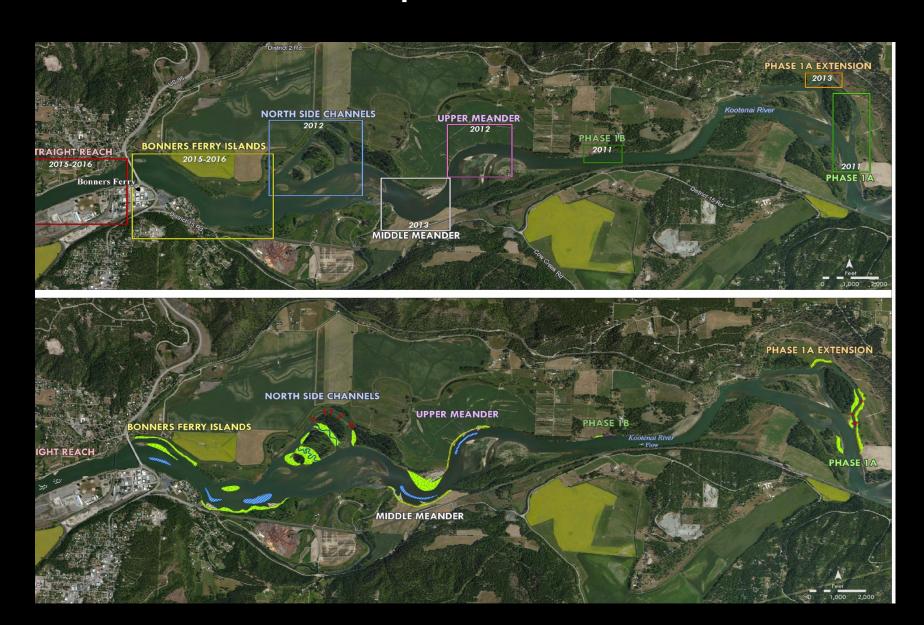


KRHRP Master Plan

- I. Overarching framework for large-scale restoration
- 2. Focus on dynamic river processes & ecosystem functions instead of prescriptive approach to single life stage of one species restoration actions
- 3. Synthesis of available data & analysis
- 4. Goals to address limiting factors related to:
 - Morphology
 - Riparian Vegetation
 - Aquatic Habitat
 - River Management & stewardship
- 5. Toolbox of restoration treatments to address limiting factors



KRHRP Projects 2011-2016



Major Types of Treatments Implemented 2011-2016

- 1. Pool forming structures & pool creation or enhancement to encourage Kootenai sturgeon to migrate to upstream habitat & to provide holding habitat for sturgeon, burbot & other native fish
- 2. In river & bank structures to create more diverse & complex habitats for sturgeon & other native fish
- 3. Side channel reconnection & floodplain creation or enhancement to enhance the food web & provide habitat for juvenile Kootenai sturgeon & other native fish
- 4. Riparian enhancement (& riparian buffer fencing) to enhance the food web & provide cover for native fish

Bonners Ferry Islands Project 2015-2016



























2015 PLANTING SCHEDULE

PRESERVATION AREA

IMAGERY: NAIP 2013

LOCATION	AREA (ACRES)	NUMBER OF PLANTS	AVERAGE PLANT SPACING (FT)
Unit 1	0.06	107	5
Unit 2	0.06	103	5
Unit 3	0.06	103	5
Unit 4	0.08	145	5
Unit 5	0.08	145	5
Unit 6	0.08	145	5
Unit 7	0.08	145	5
Unit 8	0.91	84	scattered clumps
Unit 9	0.05	81	5
Unit 10	0.05	79	5
Unit 11	0.02	41	5
Unit 12	0.03	48	5
Unit 13	0.03	46	5
Unit 14	0.03	50	5
Unit 15	0.10	182	5
Unit 16	0.08	142	5
Unit 17	0.10	180	5
Unit 18	0.10	180	-5
Unit 19	0.10	180	5
Unit 20	1.46	110	scattered clumps
Unit 21	0.67	394	8
Unit 22	0.52	308	8
Unit 23	0.19	118	8
Unit 24	0.04	26	8
Unit 25	0.20	136	8
Unit 26	0.28	191	8
Unit 27	0.37	256	8
TOTALS	5.84	3,725	

FOR KOOTON RIVER

LEGEND			
0	STAGING AREA		
Territoria.	TEMPORARY HAUL ROAD		
	- RIPARIAN FENCING		
85.30	GATE		
	PLANTING ZONES		
	ISLAND - HIGH		
	ISLAND - MID		
	ISLAND - LOW		
	BENCH		
-	SLOPE	Ξ	

APPLICABLE TECHNICAL

01560	SPECIFICATIONS ENVIRONMENTAL CONTROLS
01600	PROTECTION OF MATERIALS
01640	OWNER FURNISHED MATERIALS
02920	FENCE
02930	TREE AND SHRUB PLANTING
02940	BROWSE PROTECTION
02950	BRUSH BUNDLES

02960 VEGETATION SALVAGE AND TRANSPLANT

02970 WILLOW FASCINES

"REFER TO DRAWINGS 12,3 & 12,4 FOR PLANT SPECIES ALLOCATION"

PLAN VIEW

"REFER TO DRAWING 12,10 FOR FENCE DETAILS"

PROJECT NUMBER RDG-13-012 SHEET NUMBER











Construction Phasing 2015-2016



Bonners Ferry Islands Project 2015-2016









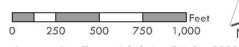




RESTORATION TREATMENTS

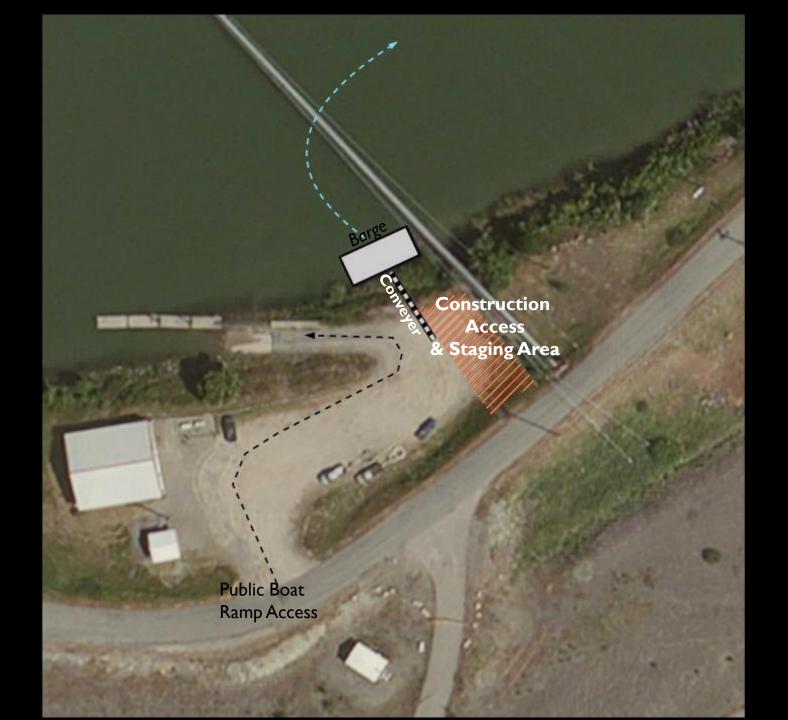














Kootenai Tribe of Idaho Public Sturgeon Release May 20th, 2016

9am-Noon

The Kootenai Tribe of Idaho would like to extend an invitation to the community to participate in the releasing of hatchery-reared juvenile white sturgeon into the Kootenai River. We hope to provide all those interested an opportunity to release fish and to ask questions about our programs and the fish. This event will take place Friday, May 20, 2016, between 9:00 AM and 12:00 PM (Pacific Standard Time) at the public Search and Rescue Boat Ramp (located by the Boundary County Waterways Building) 1 mile west on Riverside Street. Since this is a public boat launch, please be sure to park only in the designated areas.











Acknowledgements



📆 Kootenai Tribe of Idaho

BC Ministry of Forests Land and Natural Resource Operations

Bureau of Land Management

Bonneville Power Administration

Boundary County

City of Bonners Ferry

Confederated Salish and Kootenai

Tribes

D.J. Warren & Associates, Inc.

Goodfellow Brothers, Inc.

Idaho Department of Fish and Game

Idaho Department of Lands

Idaho Department of Environmental

Quality

Idaho Department of Water Resources

Idaho Office of Species Conservation

Kootenai Tribal Council

Kootenai Valley Resource Initiative

Meridian Environmental, Inc.

Montana Fish Wildlife and Parks

Natural Resource Conservation Service

Northwest Power and Conservation

Council

Peer Review Advisory Team

River Design Group, Inc.

U.S. Army Corp of Engineers

U.S. Fish and Wildlife Service

U.S. Forest Service

U.S. Geological Survey

Ziji Creative Resources, Inc.