<u>http://www.usbr.gov/pn/programs/eis/kdrpp/index.html</u> <u>http://www.usbr.gov/pn/programs/eis/kkc/index.html</u> <u>http://www.usbr.gov/pn/programs/yrbwep/2011integratedplan/index.html</u>







U.S. Department of the Interior Bureau of Reclamation



Contact: Candace McKinley, (509) 575-5848 x603 cmckinley@usbr.gov

Kachess Drought Relief Pumping Plant and Keechelus Reservoir-to-Kachess Reservoir Conveyance

A Component of the Yakima Basin Integrated Plan

May 2018

Demand for irrigation water by existing users in the Yakima River basin exceeds supply in drought years, which can lead to substantial prorationing of water deliveries and economic losses to farmers.

Proratable irrigation districts in cooperation with the Bureau of Reclamation and the Washington State Department of Ecology (Ecology) propose to construct, operate, and maintain one or both of two closely related water resource projects in the upper Yakima River basin — the Kachess Drought Relief Pumping Plant (KDRPP) and the Keechelus Reservoir-to-Kachess Reservoir Conveyance (KKC). See map inside for location projects.

The KDRPP Project is located just east of Interstate 90 near Easton, Washington. Construction of a pumping plant (either on shore or on a floating barge) would allow the reservoir to be drawn down approximately 80 feet lower than the current outlet, allowing up to 200,000 acre-feet of water to be withdrawn during drought years. This would improve water supply during periods of drought with a goal of providing up to 70 percent of proratable water rights, when feasible. The project would make maximum use of the existing reservoir storage for this purpose without altering the existing Kachess Dam or the footprint of the Kachess Reservoir.

The purpose of KKC is to move water from Keechelus Reservoir to Kachess Reservoir to reduce flows and improve habitat conditions during high-flow releases below Keechelus Dam, while providing more water storage in Kachess Reservoir for downstream needs. This project would divert water (approximately 400 cubic feet per second) below the Keechelus Reservoir's existing outlet channel into a 12-foot-diameter tunnel (approximately 4 miles long) and discharge it into Kachess Reservoir.

The *KDRPP and KKC Draft Environmental Impact Statement* (DEIS) was issued in January 2015. Two 60-day comment periods were provided (March and June 2015). Reclamation and Ecology received numerous comments on the DEIS. As a result of these comments and at the request of the irrigation districts, a Supplemental DEIS was prepared to include a floating pumping plant alternative (back page) to provide up to 200,000 acre-feet of water in a drought year. The *KDRPP and KKC Supplemental Draft Environmental Impact Statement* (SDEIS) was released to the public on April 13, 2018, for a 90-day public comment period. The comment period ends July 11, 2018.



Contact: Tom Tebb, (509) 457-7120 thomas.tebb@ecy.wa.gov





Yakima Basin Integrated Plan Initial Development Phase Projects



Water for Families, Farms, and Fis

Agricultural Conservation (2013-2018)

- 1. KRD 13.6, 13.8 Lateral Piping Project
- 2. Wapato Irrigation Project (WIP) Piping Lateral 4-414C
- 3. WIP Piping Satus East Lateral E73
 - Kennewick Irrigation District (KID) Division IV Lining
- 5. Manastash Creek Sprinkler Conversions
- 6. Yakima-Tieton ID Diversion Relocation Feasibility Study
- 7. Manastash Consolidated Pipeline & Manastash Water Ditch Association (MWDA) Pipeline Construction
- 8. WIP Piping of Unit 2 L672 and Headworks Rebuild
- 9. KRD North Branch Canal Lining
- 10. Roza Canal Lining Phases I, II, and III
- 11. WIP Lining of Unit 2 (167+20 to 173+80)
- 12. KID Reregulation Reservoir Design
- 13. WIP Unit 2 Upper Dam Rebuild and Lower Dam Removal
- 14. WIP Water Conservation Plan
- 15. City of Yakima Xeriscape Demonstration Project
- 16. Reed Pipeline Design Manastash Creek
- 17. Anderson Diversion Irrigation Water Acquisition

Groundwater Storage

- 1. Upper Kittitas Shallow Aquifer Recharge
- 2. Yakima City Aguifer Storage and Recovery
- 3. Toppenish Fan Aquifer Recharge

Fish Passage

- 1. Cle Elum Dam
- 2. Tieton (Rimrock) Dam

Structural and Operational Changes

- 1. Cle Elum Pool Raise
- 2. Keechelus to Kachess Conveyance

Surface Water Storage

1. Kachess Drought Relief Pumping Plant

Water Bank/Exchange Programs **Basin Wide**

Habitat Enhancement (2013-2018)

- 1. Manastash Creek Conservation and Tributary Enhancement Project
- 2. Toppenish Creek Habitat Restoration
- 3. Bateman Island Causeway Modification Conceptual Design/Outreach/Permitting
- 4. Bull Trout Habitat Improvements (basin wide)
- 5. Gold Creek Habitat Assessment and Conceptual Design
- 6. Upper Yakima Floodplain Acquisition and Design **Ringer Loop Road**
- 7. Little Rattlesnake Road Decommissioning
- 8. Cle Elum River Side Channel Restoration Project, Phase 2
- 9. Gap-to-Gap Property Acquisitions
- 10. Upper Wapato reach Riparian Restoration
- 11. Ellensburg Water Company /Coleman Creek Restoration
- 12. Reed Diversion Barrier Removal
- 13. Trout Meadows Acquisition /Enhancement
- 14. Manastash/Little Naches Land Acquisition
- 15. Teanaway Valley Farm Acquisition and Restoration
- 16. Cowiche Easement/Design
- 17. Gap-to-Gap Outfall Relocation and Levee **Removal Design and Restoration**
- 18. South Fork Tieton Bull Trout Passage Feasibility and Design
- 19. Teanaway/Indian Creek Restoration
- 20. Yakima Rivermile 89.5 Levee Breach
- 21. Island Road Floodplain Reconnect ion -**Toppenish Creek**
- 22. Toppenish Creek 3-way Levee Setback
- 23. Teanaway Habitat Restoration and Fencing



Kachess Drought Relief Pumping Plant and Keechelus Reservoir-to-Kachess Reservoir Conveyance Projects NEPA-SEPA Process Milestones





RECLAMATION

Managing Water in the West

Time not to scale

RECLAMATION Managing Water in the West

Kachess Drought Relief Pumping Plant Alternatives Yakima River Basin Integrated Water Resource Management Plan









Kachess Drought Relief Pumping Plant



Kachass









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g Information: aphy: U.S. Bureau of Reclamation: Cascades-Columbia Area Office ion: Washington State Plane; South Zone: NAD 83; Fed; Reclamation's Vertical Datum roduced: November 8, 2013 (Last Modified on May 3, 2018) THIS MAP DOE'S NOT CONFORM TO THE NATIONAL MAP ACCURACY STANDARD

National Hydrologic Dataset created by the USGS and U.S. EPA in 1999 from USGS Digital Line Graphs (DLGs) (1:24,000 NMAS)
ography = Acquired in 2015 by the Aerial Photography Field Office (AFPO) of the USDA's Farm

1 Mile

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Existing Maximum Reservoir Level

Proposed Minimum Reservoir Level Existing Minimum Reservoir Level

131

Floating Pumping Plant at Maximum, Minimum, and Proposed Reservoir Levels

Managing Water in the West

KACHESS RESERVOIR SCHEMATIC HYDRAULIC PROFILE

(Showing Historical Natural Lakes, Existing Kachess Dam & Reservoir, and Proposed Drawdown ~ Not to Scale)





Keechelus-to-Kachess Conveyance



Conveyance Option A

Mechanical Building

Diversion Dam

Yakima River



Not





Stilling Basin

Kachess Lake Road





Contact: Candace McKinley, (509) 575-5848, ext. 603

Tom Tebb, 509-457-7120

How Do I Provide Input?

Kachess Drought Relief Pumping Plant and Keechelus Reservoir-to-Kachess Reservoir Conveyance Supplemental Draft Environmental Impact Statement (SDEIS)

May 2018

As part of the public and agency involvement process under the National Environmental Policy Act (NEPA) and the State Environmental Policy Act (SEPA), you are invited to provide comments on the Kachess Drought Relief Pumping Plant (KDRPP) and Keechelus Reservoir-to-Kachess Reservoir Conveyance (KKC) SDEIS. The comment period began on April 13, 2018, and continues through July 11, 2018.

All comments received during the 90-day comment period for the SDEIS will be considered and addressed in the Final EIS. In addition, comments received on the DEIS will be responded to in the Final EIS. Being clear, concise, relevant to the analysis, and as specific as possible in your comments will help us to better understand your concerns and improve the EIS and decisionmaking process.

We are seeking comments on this document and we would like your help! There are a variety of ways for you to participate in this process:

Attend one of two official NEPA/SEPA public meetings (court reporter will be present to record your oral comments):

- Cle Elum May 16, 2018, 4-7 p.m. at the West Craven Room, U.S. Forest Service Cle Elum Ranger District Office.
- Ellensburg– May 17, 2018, 4-7 p.m. at the The Armory, Kittitas Valley Event Center

Mail written comments to:

Bureau of Reclamation, Columbia-Cascades Area Office Attention: Candace McKinley, Environmental Program Manager 1917 Marsh Road, Yakima WA 989012-2058

E-mail comments to kkbt@usbr.gov

Fax comments to 509-454-5650

Voicemail and record your comments at (509) 575-5848, ext. 603.

Then What Happens?

A Final EIS will be prepared. Notice of the availability of the Final EIS will be published in the *Federal Register* and local newspapers prior to release of the document, which is anticipated in late 2018. A Record of Decision may be prepared by the Bureau of Reclamation no sooner than 30 days after the Final EIS is issued.

http://www.usbr.gov/pn/programs/eis/kdrpp/index.html http://www.usbr.gov/pn/programs/eis/kkc/index.html http://www.usbr.gov/pn/programs/yrbwep/2011integratedplan/index.html

Reminder— KDRPP & KKC SDEIS 90-day Comment Period Ends July 11, 2018



On April 13, 2018, the Bureau of Reclamation and the Washington State Department of Ecology issued a Supplemental Draft Environmental Impact Statement (SDEIS) for the proposed Kachess Drought Relief Pumping Plant (KDRPP) and Keechelus Reservoir-to-Kachess Reservoir Conveyance (KKC) projects. The comment period opened April 13 and ends July 11, 2018.

Kachess Dam

What does the SDEIS propose?

The purpose of these projects is to restore and enhance instream flows and aquatic habitat for fish, improve water supply reliability during drought years, improve the ability of water managers to respond and adapt to potential changing hydrology, and contribute to the vitality of the regional economy and riverine environment in the Yakima River basin.

The SDEIS evaluates the following seven alternatives:

Alternative 1 – No Action

Alternative 2 – KDRPP East Shore Pumping Plant

Alternative 3 – KDRPP South Pumping Plant

Alternative 4 – KDRPP Floating Pumping Plant

Alternative 5A – KDRPP East Shore Pumping Plant with KKC North Tunnel Alignment

Alternative 5B – KDRPP South Shore Pumping Plant with KKC North Tunnel Alignment

Alternative 5C – KDRPP Floating Pumping Plant with KKC North Tunnel Alignment

How do I provide input?

You may send written comments to the attention of Candace McKinley, Environmental Program Manager, Bureau of Reclamation, Columbia Cascades Area Office by the following:

- Mail to 1917 Marsh Rd., Yakima, WA 98901-2058
- Email to kkbt@usbr.gov
- Fax to (509) 454-5650

Questions? Leave a voice message at (509) 575-5848, ext. 603 Or visit

http://www.usbr.gov/pn/programs/eis/kdrpp/index.html http://www.usbr.gov/pn/programs/eis/kkc/index.html http://www.usbr.gov/pn/programs/yrbwep/2011integratedplan/index.html

RECLAMATION *Managing Water in the West*

