

**Manastash Creek Instream Flow Enhancement Potential Projects
July-September 2010**

Projects For BPA Instream Flow Capital Contract #45233 11/15/09 – 10/31/10:

MWDA Pipeline (MWDA Diversion to Hanson Road) –

Project Description: This project would pipe Menastash Ditch from the KRD South Branch to Hanson Road. The saved water from piping the current earthen ditch would be trusted to the State's Water Trust Program for instream flow purposes in perpetuity. Easements for the pipeline will need to be obtained.

Estimated Manastash Creek water to be trusted: Estimate 2.0 cfs

Estimated Project Cost: \$1,632,643

Letter of Commitment: not yet signed

Potential other Funding Sources: Columbia River Grant, Washington Rivers, Ecology.

Gregerich Sprinkler Conversion – Construction began October 26, 2009. To be completed by September 1, 2010.

Project Description: The Gregerich sprinkler conversion would upgrade a rill irrigation system to a sprinkler irrigation system. The saved water from the irrigation improvements would be trusted to the State's Trust Water Program in perpetuity.

Potential Manastash Creek water to be trusted: Estimate 1.7 cfs of 2nd MWDA Class water.

Total Project Cost: \$373,000 (\$7,802.73 under current BPA contract)

Letter of Commitment: signed

Other Funding Sources: BPA Capital Contract 35408, Washington Rivers Conservancy (WRC)

Dale Dyk Sprinkler Conversion (MWDA)

Project Description: The Dyk Sprinkler conversion would upgrade rill irrigation systems to linear or pivot irrigation system. The saved water from the irrigation improvements would be trusted to the State's Trust Water Program in perpetuity.

Potential Manastash Creek water to be trusted: To be determined after saved water calculations. Trusted water would be 2nd Class MWDA water.

Estimated Project Cost: \$350,000

Letter of Commitment: not yet drafted

Potential other Funding Sources: Irrigation Efficiencies, NRCS's Agricultural Water Enhancement Program (AWEP)

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Anderville Sprinkler Conversion (Anderson)

Project Description: The Anderville Sprinkler conversion would upgrade rill irrigation systems to linear or pivot irrigation system. The saved water from the irrigation improvements would be trusted to the State's Trust Water Program in perpetuity.

Potential Manastash Creek water to be trusted: To be determined after saved water calculations. Trusted water would be 2nd Class Anderson water.

Estimated Project Cost: \$350,000

Letter of Commitment: Signed

Potential other Funding Sources: Irrigation Efficiencies, NRCS's Agricultural Water Enhancement Program (AWEP)

MWDA Ditch Water Measuring Devices –Completed April 1, 2010.

Project Description: Complete and modify 3 of the measuring devices along Menastash Ditch. This project is in conjunction with the Manastash Creek Reverse Auction and the terms and conditions of the MWDA sale.

Manastash Creek water to be trusted: 3 cfs through Reverse Auction

Project Cost: \$18,200 to complete remainder of project

Letter of Commitment: Signed

Potential other Funding Sources: none

Reed Diversion Water Measuring Devices

Project description: Project would install two measuring devices along Reed Ditch at Hanson Road. This project is in conjunction with the potential Reed Ditch pipeline from Cove Road to Hanson Road and would allow irrigator to accurately measure water.

Manastash Creek water to be trusted: Saved water would be associated with potential Reed pipeline project from Cove Road to Hanson Road.

Project Cost: Option 1 \$8,978.00. Option 2 \$25,615.00 (Additional culvert replacement)

Letter of Commitment: Signed

Potential other Funding Sources: none

Other Potential Projects

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Larry Bland Sprinkler Conversion

Project Description: The Bland Sprinkler conversion would upgrade rill irrigation systems to linear irrigation systems. The saved water from the irrigation improvements would be trusted to the State's Trust Water Program in perpetuity.

Potential Manastash Creek water to be trusted: Estimate 0.4 cfs of 3rd Class Jensen ditch water.

Estimated Project Cost: \$300,000

Letter of Commitment: signed

Potential other Funding Sources: Irrigation Efficiencies, NRCS's Agricultural Water Enhancement Program (AWEP)

Reed Pipeline (Cove Road to Hanson Road)

Project Description: This project would pipe Reed Ditch from Cove Road to Hanson Road. The saved water from piping the current earthen ditch would be trusted to the State's Water Trust Program for instream flow purposes. Easements for the pipeline will need to be obtained.

Estimated Manastash Creek water to be trusted: Estimate 1.1 cfs

Estimated Project Cost: To be determined after initial engineering

Letter of Commitment: not yet signed

Potential other Funding Sources: CRBWMP Grant

Piping KRD Lateral 13.8

Project Description: This project would pipe the KRD Lateral 13.8.

Estimated Water Savings: Estimate to determined after engineering

Estimated Project Cost: To be determined after initial engineering

Piping KRD Lateral 14.3

Project Description: This project would pipe the KRD Lateral 14.3.

Estimated Water Savings: Estimate to determined after engineering

Estimated Project Cost: To be determined after initial engineering

*Potential water savings are estimates and are before pro-rationing.