Remove Dam

Remove the dam and install boulders & riffles to prevent river from eroding the channel.

Biological Factors	• FISH - Restores full fish passage for salmon, trout, lamprey and all species of fish and all ages (juvenile and adult). • SEDIMENT - Restores sediment distribution. • FLOW – Minimal change in winter flows and height of water (~1' drop). In summer, water would not pond so it would look like downstream conditions look currently. Summer river flow still provided by releases from Fern Ridge dam at ~50cfs minimum.
Social and Community Factors	• CITY RIVERFRONT – Potential for community improvement in river identity and relationship to river; this matches working goals of City's comprehensive and recreation plans. • CITY WATER – Include technical solution so City can adjust drinking water intake because water surface elevation above dam site will lower 7'. Simple option is a stronger pump and longer hose. City working on longer term water sources. • CITY PARK - No change; can improve stagnant water in park by letting channel dry out in summer. • IRRIGATION WATER - Irrigation water availability remains the same. Lower 3 ag pumps to reach new lower water level in summer. • AG PUMP SCREENS - Ag producers with unscreened pumps will likely be required (by federal gov) to install screens so juvenile salmon aren't sucked into pumps. Producers with screens would upgrade next time they replace. • AG BUFFERS - Regulations on buffers for chemical spraying next to streams could be designated. Not enforced. Spraying enforcement is complaint driven. • BOATING - Improvement for recreational boating. • LIABILITY – Solves safety issue of drowning in dam hydraulic.
Cost and Feasibility of Funding	• COST - Expensive, include boulder/riffles as needed to avoid river erosion. • GRANTS – Yes, grant funding available. • MAINTENANCE – Eliminates cost of long-term maintenance. • LIABILITY - Removes liability and associated costs for City/Corps.
Details to be addressed in next phase	• CITY WATER – Design technical solution for City water intake. • BRIDGE - Assess potential impacts to upstream Highway 99 bridge footings and determine fix (project is in contact with ODOT on this). • IRRIGATION - Model new water surface elevation to determine number of irrigators impacted and cost associated with adjusting intakes/pumps. • ENGINEERING DESIGN - Model shear stress, water velocity across range of flow events to assess potential for creating bank instability, and how to mitigate. Boulder installation/design would need to take into account use by watercraft.

Community Comments – Please put your sticky notes here - Thanks!