Forest Service Projects
2012
Lewis River Side Channel 3
Habitat Restoration
Project Description

- Restore a side channel with Large Woody Material

- Target Species-Coho Salmon

- Project Length- ½ mile

- Approximately 25 structures composed of 300 pieces of LWM with rootwads

- Separated from mainstem by a logjam and a stable island.

- This side channel is located on Forest Service Lands and is approximately 1/8 mile upstream of the Pepper Lewis Side channel completed last year.
Lewis River Side Channel 3 Concept Plan

Legend:
- Structure Location

Proposed Project Area
Existing Log Jam
Elevating Log Jam

0  200  400  600  800  1,000  1,200  1,400  1,600 Feet
Salmon Plans

- EDT analyses concludes habitat diversity and side channel habitat is one of the highest concerns in this reach and it should respond well to restoration activities.
- Concerns include high habitat diversity, moderate hatchery fish competition, food availability, and sediment concerns.
- The ACC Synthesis Matrix rated this section of the river as having medium restoration potential and as a Primary coho population area.
Methods

- Thin a timber harvest unit from Pepper Cat to get trees with rootwads.

- Truck trees as long as possible from unit to confluence of Muddy River and Lewis River via Forest Service and Private Roads.

- Transport trees up Lewis River side channel using skidder and excavator.

- Bury some trees for key anchor points and put others on the bank to create LWM clusters.
Lewis River Side Channel 3 at low flow.
Lewis River Side Channel 3
Lewis River Side Channel 3 at low flow
Lewis River Side Channel 3 logjam at top of side channel
Typical Margin Structure

Diagram 1.

Typical margin structure with logs intertwined in riparian vegetation and key pieces buried in the streambank.
## Project Budget

<table>
<thead>
<tr>
<th>Action</th>
<th>ACC Funds</th>
<th>Partner Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEPA</td>
<td>$8,000</td>
<td></td>
</tr>
<tr>
<td>Final Designs and Project Mgmt and Contract Administration</td>
<td>$8,000</td>
<td>$14,000</td>
</tr>
<tr>
<td>Equipment Contract</td>
<td>$30,000</td>
<td>$2,400</td>
</tr>
<tr>
<td>Materials</td>
<td>$1,000</td>
<td>$45,000</td>
</tr>
<tr>
<td>Monitoring</td>
<td>$3,000</td>
<td>$2,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$50,000</strong></td>
<td><strong>$63,400</strong></td>
</tr>
</tbody>
</table>
## Project Partners

<table>
<thead>
<tr>
<th>Partner</th>
<th>Contribution</th>
<th>Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Service</td>
<td>Project development, Contracting, Permitting, Monitoring</td>
<td>$14,000 In-kind</td>
</tr>
<tr>
<td></td>
<td>Trees</td>
<td>$45,000 In-kind</td>
</tr>
<tr>
<td>Mt. St. Helens Institute</td>
<td>Monitoring</td>
<td>$2,000 In-kind</td>
</tr>
<tr>
<td>Swift Community Action Team (SCAT)</td>
<td>Machine Time</td>
<td>$800</td>
</tr>
<tr>
<td>Fish First</td>
<td>Design and Monitoring</td>
<td>$800</td>
</tr>
<tr>
<td>Equipment Rental Services</td>
<td>Machine Time</td>
<td>$800</td>
</tr>
</tbody>
</table>
• **END**

• Lewis River Side Channel 3- Questions