ACC Request - 2013 Cedar Creek Reach 1a Restoration Project

Phase 1: Reach 1A
Approximately 1,525 linear feet of LWD restoration, and 250 feet of side channel enhancement.
Productivity in NFK Lewis is limited by lack of cover and habitat diversity, including side, alcove and off-channel habitat. Productivity in lower Cedar creek is limited by lack of pools and cover.

This project will replace glide habitat with pool habitat, and at the same time create better spawning conditions in adjacent riffles. These changes will increase productivity for fish produced within Cedar creek and in NFK Lewis Reach 6 & 7b.

- Project will increase # of pools from current 2 to >15
- Project will reduce water velocity along channel margins to facilitate upstream migration by juvenile salmonids between logjams & pools
- Project will create new riffles (spawning areas) associated with logjams
- Project will create winter refuge habitat and adult holding cover
- Project will increase interaction with hyporheic (groundwater) zone
- Project will increase connectivity with adjacent floodplain surfaces (Riparian)
Lamprey Concerns/Comments

USFS - Encourage the incorporation and consideration for neglected Lamprey species.

WDFW - WDFW is very concerned with Lamprey impacts.

LCFEG started coordination USFWS & WDFW

BMP’s for in-stream activities to avoid adverse effects to Pacific Lampreys (2010)
• Consider lampreys in all stream disturbing activities;
• Identify locations within streams where activities have the greatest potential to affect lampreys (both positive and negative effects);
• Modify project design to protect lampreys
• Post-project, monitor and document successes and failures. Provide this information to the US Fish and Wildlife Service:
Budget

Known:
- Cedar Creek Reach 1a Project funded by SRFB = $209,108
- $20k allocated for wood transport.
- PacifiCorp donated wood (if available) valued @ $350 per 1,000 board feet.
- PacifiCorp donation will be subtracted from ACC request.
- Reservoir wood correlated to frequency of large floods events and landslides within the upper basin.
- Construction scheduled for summer 2014.

<table>
<thead>
<tr>
<th>Funded SRFB Project Amount</th>
<th>$209,108</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCFEG Project Match</td>
<td>$47,420</td>
</tr>
<tr>
<td>ACC Request or value PacifiCorp wood donation</td>
<td>$53,000</td>
</tr>
<tr>
<td>Project Grand Total</td>
<td>$309,528</td>
</tr>
</tbody>
</table>

Variables:
- Unknown quantity of reservoir wood available during 2014.
- Weather and future flood events.
- Competing wood demands (USFS & CIT)