



Science Work Group Agenda

September 22, 2015
9:00 AM – 12:00 PM
Estuary Partnership Office
811 SW Naito Parkway, Suite 410
Portland, OR 97204

Conference Line: 218-844-1930
Access Code: 862231

WebEx

1. Go to <https://lcrep.webex.com/lcrep>
2. Choose the "Science Work Group" meeting
3. Enter the meeting password: estuary
4. Enter your name and email address.
5. Click "Join Now".

9:00 Introductions and Updates - participants are encouraged to provide updates on projects of interest

9:20 Results of Large Wood Placement Studies at South Slough NERR – Craig Cornu (formerly Sough Slough NERR)

9:50 Large Wood Placement in Restoration – State of Science – Phil Roni, Cramer Fish Sciences

10:20 Observations of Large Wood at Reference Sites – Amy Borde (PNNL), Amanda Hanson (LCEP)

10:30 Discussion

- 1) Is LWD in estuaries natural?
- 2) Does LWD density vary by habitat type (mainstem, slough, scrub shrub, emergent marsh vs forested)
 - a. Considerations – current baseline is lower than historic conditions
 - i. Contribution by upstream sources depends on land use/land cover
 - ii. Historic land use of sites (e.g., LWD removed for farming)
 - iii. LWD decomposes over time
 - iv. Reduced recruitment today
- 3) Density of LWD used in restoration sites – does it represent density at reference sites, natural conditions for projected targeted habitat?
- 4) Does LWD stay in place? Does this vary by location (e.g., lower river vs upriver sites; mainstem vs slough, or by water velocities, elevations)?
- 5) Is there an increased density of fish use around LWD structures?
 - a. Does LWD create an attractant nuisance as a result of increased density of predators?
 - b. Does LWD increase macroinvertebrate prey availability at specific site?
- 6) Do fish derive benefit from LWD and associated conditions? Can we tie LWD placement to benefits such as:

- a. Increased fish condition, growth
 - b. Lower mortality
- 7) On a landscape scale, is there increased survival, performance of juvenile salmon in reaches with LWD vs reaches without LWD?

12:00 Adjourn