

Lake Chelan Fishery Forum (LCFF) Meeting Minutes

Date: July 14, 2009

Time: 9:00 am – 3:00 pm

Location: Chelan PUD Headquarters, Wenatchee, WA
Second Floor Conference Room

Call in number: (509)661-4844, Password is 4000.

Meeting called by: Jeff Osborn,
Chelan PUD

Type of meeting: LCFF Meeting

Note taker: Lisa Mattix

LCFF Members

<u>Name</u>	<u>Agency</u>	<u>Phone</u>	<u>Email</u>
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Bob Goedde	City of Chelan	509-682-8018	mayor@cityofchelan.com
Gary Denniston	LCSA	509-888-0047	geedee@nwi.net
Steve Milner	Interested resident	509-687-9490	steve.milner@uop.com
Jeff Osborn	Chelan PUD	509-661-4176	jeff.osborn@chelanpud.org
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Janel Duffy	Chelan PUD	509-661-4400	janel.duffy@chelanpud.org
Pat Powers (via phone)	Waterfall Engineering		

ATTENDEES IN BOLD

Meeting Purpose: Meeting of the Lake Chelan Fishery Forum to continue Lake Chelan license implementation

Minutes

Pat Powers began with explanation of the drawings of the Lake Chelan Tributary Barrier Removal Project preliminary designs for Mitchell, Gold, and Grade creeks, based on LCFF input from the April 2nd field trip.

Basic questions raised by LCFF for design were:

- What is lowest lake level to provide passage? (1086 feet)
- What size of fish to provide passage? (8" trout)

Mitchell Creek

- 8% slope channel proposed with constructed rock step pools.
- Discussion by Phil Archibald about removing the bottom 3 weirs and the top 3 from the design.
- Pat Power's suggestion was to keep the bottom 5 weirs and place boulders in strategic locations in the upper areas.

The recommendation for design modification was to excavate the upper channel to an 8% grade; provide opportunistic placement of boulders instead of constructing the top five structures in the upper section; and construct the six bottom structures.

Action items:

- ✓ Pat Powers will re-address more detail & adjust the design drawings.

Gold Creek

Gold Creek design drawing was acceptable as is with slight modifications (i.e., colors on drawing, additional notes, etc.) recommended by the LCFF

Grade Creek

Questions from Phil Archibald:

- Do we want to build a fishway in Grade Creek?
- Do we want to leave Grade Creek alone?

Rationale from Phil for not treating Grade Creek:

- Slope is very steep (36%);
- Constructed fishway is only option identified by LCFF to address passage problem;
- Cost and likelihood of failure due to sedimentation would be high;
- Primary trout species inhabiting Grade Creek is rainbow (RBT);
- UFDA Forest Service, NPS, and WDFW prefer eradication of RBT from Lake Chelan Basin;
- Continual downstream drift from upstream reaches will seed lower Grade Creek with RBT;
- Available habitat for adfluvial fish is very short (~800 ft.);
- Overall trout population is low compared to other tributaries; and
- Funds spent elsewhere would likely provide greater benefit to Westslope cutthroat trout enhancement.

The LCFF agreed that the issue in Grade Creek was more biological than engineering and should be discussed among the biologists. Phil alerted the LCFF that snorkel surveys were to be conducted soon and results would be useful in biological discussions.

Action items:

Phil Archibald:

- ✓ Conduct snorkel survey, hopefully within 3 weeks, and then discuss whether construction is worth doing.

Jeff Osborn:

- ✓ Post pictures from Pat's 7/13/09 email and send email to inform the Forum.
- ✓ Check ownership of property on Gold Creek, then contact owner, if we do work.
- ✓ Investigate possibility of construction in Mitchell and Gold creeks in 2010 instead of 2011.
- ✓ Contact Debbie Knaub: do we need a permit to move existing rock at sites?

Pat Powers:

- ✓ Designs to be updated for Mitchell and Gold creeks per suggestions from this meeting.

LCFF members:

- ✓ Be available for on-site direction during construction of first structures to guide contractor for construction of additional structures.

Janel Duffy & Rosana Sokolowski presented handouts on NPV Net Present Value Calculations, LC06b1 LC Fish M&E & LC06b2 LC Fish M&E Match & explained how it is calculated.

Action items:

- ✓ Janel will contact Tony Eldred if he needs additional information or explanation, as he was not present for meeting.

NPV calculations for the LCFE minutes on the web.

$$NPV = \sum_{t=1}^T \frac{C_t}{(1+r)^t} - C_0$$

Where t = the year, current year is 0

C = the money incoming in a given year (if you have income in year one, C₀ is negative)

r = discount rate (what the bank pays you)

In excel one can type =npv(r,C₁:C_t)+C₀ if your C₀ has the correct sign already

In our example the following is true:

$$C_0 = \$10,000.00$$

$$C_1 = \$10,250.00$$

$$C_2 = \$10,506.25$$

$$C_3 = \$10,768.91$$

$$C_4 = \$11,038.13$$

r = 7% or 0.07 so:

$$NPV = 110250/(1.07)^1 + 10506.25/(1.07)^2 + 10768.91/(1.07)^3 + 11038.13/(1.07)^4 - (-10000) =$$

$$9579.44 + 9176.57 + 8790.64 + 8420.94 = \$35967.58 + 10000 = \$45967.58$$

Additional Information

Handouts: agenda; design drawings; NPV calculation example; tracking sheets.