



## Priest Rapids Fish Forum

### Conference Call

Wednesday, 3 January 2024  
 10:00 a.m. – 11:00 a.m.

### FINAL MINUTES

#### PRFF Members

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RD Nelle, Emily Orling, USFWS  
 Ralph Lampman, Keely Murdoch, YN  
 Nathan and Clayton Buck, Wanapum  
 Jason McLellan, Bret Nine, CTCR  
 Mike Clement, Chris Mott, Grant PUD  
 Tracy Hillman, Chair

Patrick Verhey, Benjamin Cox, WDFW  
 Breean Zimmerman, WDOE  
 Aaron Jackson, Carl Merkle, CTUIR  
 N/A, BIA  
 N/A, CRITFC

#### Meeting Attendees

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Jason McLellan, CTCR  
 Mike Clement, Grant PUD  
 Patrick Verhey, WDFW  
 Ralph Lampman, YN  
 Nathan Buck, Wanapum  
 Tygh Schuster, YN

Nathan Patterson, YN  
 RD Nelle, USFWS  
 Chris Mott, Grant PUD  
 Emily Orling, USFWS  
 Breean Zimmerman, WDOE  
 Tracy Hillman, Chair

#### Action Items:

- Ralph Lampman will share the presentations or links to the presentations given during the Pacific Lamprey Information Exchange.
- Ralph Lampman will update the Upper Columbia Juvenile Source Lamprey Datasheet and send it to Tracy Hillman for distribution to the PRFF.
- PRFF members will provide comments on the draft 2023 Bull Trout M&E Plan Annual Report to Grant PUD by 4 January 2024.

- Ralph Lampman will check to see if any investigators on the Columbia River will be tagging lamprey with HDX PIT tags in 2024. Mike Clement will use this information to determine whether Grant PUD need to activate their HDX PIT tag arrays.

## **Decision Items:**

- None.

### **I. Welcome and Introductions**

Tracy Hillman welcomed everyone to the meeting and identified all attendees.

### **II. Agenda Review**

The PRFF reviewed and approved the January agenda.

### **III. Approve November Meeting Notes**

The PRFF reviewed and approved the 1 November 2023 meeting minutes.

### **IV. Review Action Items**

The PRFF reviewed the following action item from the November meeting:

- Ralph Lampman will update the Upper Columbia Juvenile Source Lamprey Datasheet and send it to Tracy Hillman for distribution to the PRFF. **Ongoing**

### **V. White Sturgeon**

**White Sturgeon Rearing Update** – Nate Patterson reported that the juvenile sturgeon on station at the Yakama Nation Sturgeon Hatchery are doing well. He said the fish average 7.76 fish per pound, which is larger than fish measured at this time last year. They have grown considerably since the last sampling event and have limited fin deformities. He said there are approximately 6,000 juvenile sturgeon on station.

**2023 White Sturgeon Annual Report** – Mike Clement stated that WSP Golder is working on the draft report and should have it to Grant PUD in a week or two. Grant PUD will review the report and then send it to the PRFF for a 30-day review. Mike believes the PRFF will see the report by the end of this month.

**Other White Sturgeon Items** – No other White Sturgeon items were discussed.

### **VI. Pacific Lamprey**

**2023 Annual Pacific Lamprey Report** – Mike Clement indicated that Grant PUD is currently reviewing the draft annual Pacific Lamprey report. Mike said the report has been restructured based on comments received from the PRFF last year. He added that the draft report should be sent to the PRFF for a 30-day review by the end of the month. Ralph asked whether the report will include a table identifying the destination of translocated lamprey. Mike responded that the report will include information on destination.

**Results from the Pacific Lamprey Summit and Information Exchange** – Mike Clement stated that it was a good conference; however, there were problems with slides advancing during the presentations.

Nevertheless, there were some interesting talks, and he highlighted a talk on fine-scale analysis of sea lamprey migration, noting that adult sea lamprey follow the thalweg during upstream migration.

Ralph Lampman walked the Forum through the different presentations given during the Summit and Information Exchange. The first day (12 December) was the Policy Committee Meeting, which focused on the theme, “What’s Next for Pacific Lamprey?” (see Attachment 1). Ralph said they had breakout sessions with three different discussion topics: (1) Key Threats, (2) Communication/Advocacy, and (3) Funding. He said the breakout sessions worked well even though it was a new format for the Policy Committee.

The next two days included Lamprey Information Exchange presentations (see Attachment 2). The first day (13 December) of the Lamprey Information Exchange focused on (1) Genetics, Phylogenetic, and Taxonomy; (2) Restoration; and (3) Juvenile Entrainment, Dewatering, and Dredging Investigations. Ralph said the talks on “Patterns in Distribution and Density of Larval Lampreys in the Mainstem Columbia River”; “Pursuing Creative Methods to Reduce Entrainment for Lamprey”; “Do Salmon Screening Criteria Protect Larval Lamprey?”; and “Screening Options to Protect Larval Lamprey and an Open Call for Large-Scale Salvage Solutions” would be useful to the PRFF. Ralph said the second day (14 December) of the Information Exchange focused on (1) Migration, Tagging, and Passage and (2) an Open Session. He said the talks on “Investigations of Seward Migration and Survival of Juvenile Sea Lamprey using ELAT”; “How Migrating Adult Sea Lamprey Navigate Through Complex and Risky Habitats”; “An Open-Source Pacific Lamprey Life-Cycle Model Tool”; “Will Warming Winter Temperature Resulting from Climate Change Influence Larval Metamorphosis in Pacific Lamprey?”; and “Natal Origins of Pacific Lamprey” would all be useful to the PRFF. Ralph said he will share the presentations or links to the presentations once they are available.

**Juvenile Survival Studies** – Ralph Lampman reported that he is still waiting for information to complete the Upper Columbia Juvenile Source Lamprey Datasheet. He said there are a few data gaps that need to be filled with information. He hopes to have that information soon. He also noted that he was surprised with the low numbers of juvenile lamprey collected in screw traps. He was expecting to see larger numbers of juvenile lamprey collected in traps. Given the low numbers, the PRFF will have to consider collecting juveniles from downstream sources. Ralph then referred back to the November meeting notes and reminded members to focus on the four key questions. He said although we have time to work through these questions, we need to continue working on them. RD Nelle noted that he is going to discuss the questions with experts within the USFWS.

**Other Pacific Lamprey Items** – Ralph Lampman stated that he will soon share with the PRFF the 2023 Pacific Lamprey Assessment Update for the Upper Columbia region. This report will summarize the results and conclusions from the assessment meetings. Mike Clement asked whether any lamprey will be tagged with HDX PIT tags this year. Ralph indicated that he was not sure but will check. Mike said Grant PUD will activate their HDX detection systems if lamprey are being tagged with HDX tags this year.

## **VII. Bull Trout**

**2023 Annual Bull Trout Report** – Mike Clement indicated that Grant PUD sent the draft 2023 Bull Trout M&E Plan Annual Report to the PRFF on 29 November. Comments on the draft report are due to Mike tomorrow (4 January 2024). Mike stated that in 2023, they observed 2 Bull Trout passing Wanapum Dam. No Bull Trout were observed passing Priest Rapids Dam in 2023, and no Bull Trout were observed in other mainstem activities such as juvenile bypass activities, Northern Pikeminnow predator control programs, turbine maintenance activities, fishway maintenance activities, White Sturgeon activities, fall Chinook Salmon activities, hatchery activities, or at their mainstem PIT-tag interrogation systems. Mike

indicated that they are working on improving the quality of the photos taken of fish passing through the fishway counting stations.

### **VIII. Adjourn**

With no additional business to discuss, Tracy Hillman adjourned the meeting at 11:00 am.

### **IX. Next Meeting**

The next meeting of the PRFF will be on 7 February 2024.

# **Attachment 1**

## **Pacific Lamprey Summit and Information Exchange: Policy Committee Meeting Agenda**



## PLCI 2023 POLICY COMMITTEE MEETING

### When:

**Tuesday 12 Dec. 2023**  
12:30 pm to 4:30 pm

### Where:

**Water Resources Education  
Center**  
4600 SE Columbia Way  
Vancouver WA, 98661

### Wednesday Night PLCI Partner Social:

**Wednesday, 13 Dec. 2023**  
6 pm to 10 pm

**Loowit Brewing Company**  
507 Columbia St,  
Vancouver, WA 98660

## WHAT'S NEXT FOR PACIFIC LAMPREY?

**TUESDAY 12 DECEMBER 2023**

In response to PLCI partner and supporter feedback, this year's Policy Committee will focus on small group discussions. We hope this format can provide a space for all PLCI partners and supporters to bring our collective knowledge and experience together to answer the question: *What's next for Pacific Lamprey?*

### WELCOME & TRIBAL INVOCATION

**12:30 pm to 1:00 pm**

*Welcome by Kelly Coates (Cow Creek Umpqua Tribe)*

*Invocation by Ashton Picard (Nez Perce Tribe Executive Committee, Chaplin & Vice Chair of the Natural Resource Sub-committee)*

### PLCI UPDATE & MEETING FORMAT DISCUSSION

**1:00 pm to 1:30 pm**

*Joint presentation by PLCI State Co-Chair Ben Clemens and Coordinator Max Calloway*

### BREAKOUT GROUP DISCUSSION

**1:30 pm to 3:00 pm**

THREE 25-MINUTE SESSIONS (TOPICS ON PAGE 2)

### GROUP REPORT OUT AND COMMON THEME IDENTIFICATION

**3:15 pm to 4:30 pm**

*Facilitated by Kelly Coates (Cow Creek Umpqua Tribe)*

## BREAKOUT GROUP DISCUSSION TOPICS

### & GUIDING QUESTIONS / THOUGHTS

*NOTE: Guiding questions should not be interpreted as putting any partners "on-the-spot", or as a request for detailed accounting of partner organizations' past efforts. Instead, these questions are intended to help guide or jumpstart our discussion to help us collectively understand where we came from, are now, and where we would like to see Pacific Lamprey in the future with as much specificity as possible.*

#### 1. KEY THREATS

- What progress has been made in addressing threats?
- What threats unify large areas and/or large numbers of partners?
- What threats require more focus and what barriers do we think stand in the way?

#### 2. COMMUNICATION / ADVOCACY

- How are we getting the word out about Lamprey?
- How can we more effectively advocate for Lamprey in Salmon spaces?
- Are there untapped, easily accessible venues we are not using / aware of as an entity and as a whole?

#### 3. FUNDING

- How are partners funding Lamprey work?
- What potential funding resources are on the horizon as an entity and as a whole?
- What would it take to create a large, dedicated funding source for Pacific Lamprey (in the style of the Pacific Coastal Salmon Recovery Fund)?

## NATIONAL FISH HABITAT PARTNERSHIP

PLCI is one of 20 nationally recognized fish habitat partnerships in the United States. Through its work, PLCI seeks to advance its own goals, and those of the National Fish Habitat Partnership (NFHP) which are to protect, restore, and enhance the nation's fish and aquatic communities through partnerships that foster fish habitat conservation and improve quality of life for all Americans.

Learn more about the work of NFHP and the other Fish Habitat Partnerships at [www.fishhabitat.org](http://www.fishhabitat.org)



## Attachment 2

### **Pacific Lamprey Summit and Information Exchange: 7<sup>th</sup> Annual Lamprey Information Exchange Agenda**

Note: Ralph Lampman identified in red font those presentations that may be relevant to the PRFF.





# 7<sup>TH</sup> ANNUAL LAMPREY INFORMATION EXCHANGE

## When:

**Wednesday 13 Dec. 2023**  
9 am to 4 pm

**Thursday 14 December 2023**  
9 am to 1 pm

## Where:

**Water Resources Education  
Center**  
4600 SE Columbia Way  
Vancouver WA, 98661

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## AGENDA

### DAY 1: WEDS. 13 DEC. 2023

#### WELCOME & TRIBAL INVOCATION

9:00 a.m. to 9:30 a.m.

*Invocation by Kelly Coates (Cow Creek Umpqua Tribe)*

#### TRIBAL KEYNOTE

9:30 to 10:15 a.m.

*Introduction by Laurie Porter (CRITFC)*

*The Asuum ku Kisooyas (Pacific Lamprey), are resilient and are an important indicator species to their natural habitats and ecosystems. They continue to have an important role to the Plateau tribes of the N'chi Wana (Columbia River) ceremonies and provide subsistence food source. The Asuum have sustained our people for thousands of years and it is our responsibility to protect their habitat, migratory corridors, and distribution so our future generations will have the ability to fish for this important First Food.*

Elaine Harvey (CRITFC)

BREAK: 10:15 A.M. TO 10:30 A.M.

#### GENETICS, PHYLOGENETICS & TAXONOMY

10:30 a.m. to 1200 p.m.

*Facilitator: Christina Wang (USFWS)*

GAINING AND LOSING LAMPETRA SPECIES DIVERSITY THROUGH  
PHYLOGENETIC ANALYSIS - IMPLICATIONS AND NEXT STEPS FOR  
RESEARCH AND MANAGEMENT

Kellie Carim (USFS)

LAMPREYS IN CALIFORNIA: MITOCHONDRIAL PHYLOGENETIC ANALYSIS REVEALS PREVIOUSLY UNRECOGNIZED DIVERSITY

Grace Auringer (UC Davis)

A 400K BRIGHT SPOT ON THE HORIZON FOR PACIFIC LAMPREY

Jon Hess (CRITFC)

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LUNCH: 12:00 P.M. TO 12:50 P.M.

LAMPREY ROCKSTAR AWARD CEREMONY

12:50 p.m. to 1:00 p.m.

*Presented by Christina Wang (USFWS)*

RESTORATION

1:00 p.m. to 2:30 p.m.

*Facilitator: Julie Harris (USFWS)*

INTEGRATING LAMPREYS INTO HABITAT RESTORATION

Amy Horstman (USFWS)

LAMPREY USE OF SALMONID FOCUSED HABITAT RESTORATION PROJECTS

John Crandall (Methow Salmon Recovery Foundation)

LARVAL LAMPREY USE OF HABITAT RESTORATION TO A STAGE 0 CONDITION

Logan Bodiford (USFS)

LAMPREY IN URBAN STREAMS OF PORT ANGELES, AND RECOLONIZATION OF THE ELWHA RIVER

Justin Stapleton (Lower Elwha Klallam Tribe)

PANEL DISCUSSION

JUVENILE ENTRAINMENT, DEWATERING, & DREDGING INVESTIGATIONS (JEDDI)

2:30 p.m. to 4:00 p.m.

*Facilitators: Marty Liedtke (USGS) & Joe Skalicky (USFWS)*

PATTERNS IN DISTRIBUTION AND DENSITY OF LARVAL LAMPREYS IN THE MAINSTEM COLUMBIA RIVER

Monica Blanchard (WDFW / USFWS)

PURSuing CREATIVE METHODS TO REDUCE ENTRAINMENT FOR LAMPREY: CASE STUDY FROM TESTING FLOW VELOCITY ENHANCEMENT SYSTEM (FVES)

Tyler Beals (Yakama Nation Fisheries)

PUMP SCREENS: DO SALMON SCREENING CRITERIA PROTECT LARVAL LAMPREYS?

Danny Didricksen (WDFW)

SCREENING OPTIONS TO PROTECT LARVAL LAMPREY AND AN OPEN CALL FOR LARGE-SCALE SALVAGE SOLUTIONS

Joe Skalicky (USFWS)

PANEL DISCUSSION

**Nearby Lodging:**

*\*Mention of these lodging options is not an endorsement. Other lodging options are available for review online.\**

**Hilton Vancouver**

301 W. 6th St, Vancouver, WA 98660

(855) 605-0316

**Comfort Inn & Suites Vancouver Downtown**

401 E 13th St, Vancouver, WA 98660

(360) 696-0411

**Homewood Suites by Hilton Vancouver-Portland**

701 SE Columbia Shores Blvd, Vancouver, WA 98661

(360) 750-1100

**Hotel Indigo Vancouver Downtown**

550 Waterfront Wy, Vancouver, WA 98660

(360) 816-0058

**Holiday Inn Portland – Columbia Riverfront**

909 N Hayden Island Dr, Portland, OR 97217

(503) 283-4466

**Oxford Suites Portland – Jantzen Beach**

12226 N Jantzen Dr, Portland, OR 97217

(503) 283-3030

**Holiday Inn Express & Suites Portland – Jantzen Beach**

2300 N Hayden Island Dr, Portland, OR 97217

(503) 283-8000

## DAY 2: THURS. 14 DEC. 2023

### MIGRATION, TAGGING & PASSAGE

9:00 a.m. to 10:30 a.m.

Facilitators: Ben Clemens (ODFW) & Ralph Lampman (Yakama Nation Fisheries)

INVESTIGATIONS OF SEAWARD MIGRATION AND SURVIVAL OF JUVENILE SEA LAMPREY USING ELAT, A MICRO ACOUSTIC TRANSMITTER

Michael Wagner (Michigan State University) [Recorded Presentation & Remote Q&A]

SWIMMING A FINE LINE: HOW MIGRATING ADULT SEA LAMPREY NAVIGATE THROUGH COMPLEX AND RISKY HABITATS

Kandace Griffin (Michigan State University) [Recorded Presentation & Remote Q&A]

AN OPEN-SOURCE PACIFIC LAMPREY LIFE-CYCLE MODELING TOOL: WHAT DOES IT LOOK LIKE AND WHAT CAN WE LEARN FROM IT?

Dylan Gomes (USGS)

PANEL DISCUSSION

### OPEN SESSION

10:30 a.m. to 12:30 p.m.

Facilitators: Jen Poirier & Julie Harris (USFWS)

MY TRANSFORMATION INTO A LAMPREY ADVOCATE: WRITING THE 2022 PACIFIC LAMPREY ASSESSMENT AS A USFWS AND MANRRS INTERN

Mee-ya Monneedy (M.S. Student, Fisheries Science at OSU)

FINDING PACIFIC LAMPREY: USING eDNA TO MAP SEASONAL PRESENCE IN THE MAD RIVER.

Maddy Rifka Brunt (Mattole Salmon Group/Yurok Tribe)

WILL WARMING WINTER TEMPERATURE RESULTING FROM CLIMATE CHANGE INFLUENCE LARVAL METAMORPHOSIS IN PACIFIC LAMPREY?

Will Simpson (USFWS)

NATAL ORIGINS OF PACIFIC LAMPREY (*ENTOSPHENUS TRIDENTATUS*)

Jessica Miller (OSU)

ORGANOHALOGENATED CONTAMINANTS IN MULTIPLE LIFE STAGES OF THE PACIFIC LAMPREY (*ENTOSPHENUS TRIDENTATUS*)

Casie Smith (USGS, Oregon Water Science Center)

## NATIONAL FISH HABITAT PARTNERSHIP

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# LAMPREY ROCKSTAR AWARDS

To RECOGNIZE & COMMEND EXCEPTIONAL EFFORTS IN SUPPORT OF LAMPREYS

The Lamprey Rockstar Awards are broken into three categories with three winners picked annually by the Info Exchange Planning Committee and announced at the Info Exchange.

Award recipients receive a commemorative rock, hand-painted by none other than PLCI's Monica Blanchard and a lifetime place in the Lamprey Hall of Fame.

## LAMPREY HUB ROCKSTARS

Awarded to one individual and one team whose main work responsibilities (the "hub" of their work) are focused on lamprey conservation. Award recipients go above and beyond to make contributions to science, management and/or education.

## LAMPREY SPOKE ROCKSTAR

Awarded to an individual who does NOT work on lamprey conservation as a primary activity but advocates for, educates others about, and focuses on lamprey conservation outside of their everyday work responsibilities or in their personal time.

## LAMPREY HALL OF FAME

### 2022 WINNERS:

*Individual Hub Rockstar:* Mary Moser

*Hub Team Rockstar:* Yakama Nation (feat. Ralph Lampna, Tyler Beals, & Daavey Lumley)

*Spoke Rockstar:* Angie Haners WDFW

## Know a Rockstar?

[NOMINATE ONE TODAY!](#)

Candidates can be nominated by the public online any time before November 27, 2023. The Info Exchange Planning Committee will meet and select award recipients ahead of the Info Exchange.

Winning a Rockstar award is a "once-in-a-lifetime" event. Past award winners are never eligible for the same category again but can be nominated for other categories they have not won.

Please check the past winners (listed on this page) before submitting nominations.

[CLICK HERE TO SUBMIT NOMINATIONS BEFORE NOVEMBER 27, 2023](#)