

**MEMORANDUM FOR THE RECORD****SUBJECT: 22BON051 MFR AFF Lamprey, Sockeye, and Smolt Mortalities**

On the morning of 18 July, Columbia River Inter-Tribal Fish Commission (CRITFC) notified Project Fisheries of eleven fish mortalities discovered on the valve 15 trash rack in the Adult Fish Facility (AFF). The mortalities were composed of 2 salmon smolts (Photo 1), 8 adult Pacific Lampreys (Photos 2-5), and one adult sockeye (Photo 6). The fish were inspected, scanned, measured, and returned to the river. See photo and mortalities details below.

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**Two Smolt Mortalities (Photo 1):**

- A. Species – Salmon smolts (*Oncorhynchus sp.*)
- B. Origin – Top fish: Parkdale Hatchery in Parkdale, OR  
bottom fish: NA
- C. Length – Top: ~25 cm,  
bottom fish: ~20 cm
- D. Marks and tags – Top: adipose clipped, PIT #3DD.003D9650E3  
Bottom fish: adipose clipped, no tag.
- E. Marks and Injuries found on carcass –
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – NA



Photo 1: Two salmon smolt mortalities.

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**Lamprey mortalities 1 & 2 (Photos 2 & 3):**

- H. Species – Pacific Lamprey (*Entosphenus tridentatus*)
- I. Origin – NA
- J. Length – Top: ~70 cm, bottom: ~66 cm
- K. Marks and tags – NA
- L. Marks and Injuries found on carcass – Top mort: gash above gill pores (see photo 2)
- M. Cause and Time of Death – NA
- N. Future and Preventative Measures – NA



Photo 2: Lamprey mortalities # 1 & 2.



Photo 3: Detail of lamprey mortality #1 showing detail of gash.

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**Lamprey mortalities #3-5 (Photo 4):**

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*)
- B. Origin – NA
- C. Length – Top: ~60 cm, middle: ~64 cm bottom: ~72 cm
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – Middle fish: contusion below dorsal fin.
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – NA



Photo 4: Lamprey mortalities #3-5.

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**Lamprey mortalities #6-8 (Photo 5):**

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*)
- B. Origin – NA
- C. Length – Top: ~65 cm, middle: ~ 60 cm bottom: ~67 cm
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – NA



Photo 5: Lamprey mortalities #6-8.

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**One Sockeye Mortality (Photo 6):**

- A. Species – Sockeye (*Oncorhynchus nerka*)
- B. Origin – NA
- C. Length – Top: ~50 cm,
- D. Marks and tags – Unclipped adipose, no tag
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – NA
- G. Future and Preventative Measures – NA



Sincerely,

Bonneville Project Fisheries