

**MEMORANDUM FOR THE RECORD – 17 LGS 05 MFR Separator Smolt Mortality**

**SUBJECT:** Little Goose has experienced higher than normal debris load through the juvenile collection system recently. On April 11 at approximately 1300 debris caused the separator to become plugged and water overflowed out of the adult release pipe. A total of 94 juvenile salmon and steelhead (Table 1) were overflowed onto the ground. To prevent additional overflow and mortality, the primary switch gate was moved to the primary bypass position until debris could be removed. The primary switch gate was moved back and sampling resumed at 1430.

Clipped Chinook	Unclipped Chinook	Clipped Steelhead	Unclipped Steelhead	Total
29	53	10	2	94

- A. Species – Steelhead *Oncorhynchus mykiss* and Chinook Salmon *Oncorhynchus tshawytscha*
- B. Origin – Hatchery and Wild
- C. Length – N/A
- D. Marks and tags – See Table 1.
- E. Marks and Injuries found on carcass – N/A
- F. Location – Juvenile fish separator adult release pipe
- G. Cause and Time of Death – Separator plugged, causing the adult release gate to open and the adult release pipe to overflow. Juvenile steelhead and salmon were overflowed onto the ground at approximately 1330.
- H. Future and Preventative Measures – Additional efforts for debris removal within the juvenile collection channel are currently taking place. The separator bars were removed on April 12 to facilitate debris removal. Additionally, Little Goose will be receiving a trash shear boom the winter of 2017-2018 which will help alleviate debris loads in the future.
- I. Pictures - None at this time

Sincerely,  
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 Little Goose Dam  
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