

MEMORANDUM FOR THE RECORD

SUBJECT 15 LWG 16 MFR LGR Adult Chinook Mortality

Description of the problem: Tuesday 7 July 2015 at about 1300 hours two adult Chinook mortalities were discovered on the hillside adjacent to adult fish ladder Diffuser 14. The time and date of these mortalities was undetermined. There were no other mortalities reported at this location on fish ladder inspections forms this week. During the 2014 adult passage season there were six adult salmonids mortalities adjacent to diffuser 14 when the emergency cooling pumps were operational to cool the fish ladder water temperature. This has not been a routine issue documented at Lower Granite historically.

- A. Species – Two adult Chinook.
- B. Origin – Undetermined.
- C. Length – Fish were estimated to be 23 inches and 28 inches in length.
- D. Marks and tags – No tags or marks were noted.
- E. Marks and Injuries found on carcass – Marks and injuries were undetermined due to decomposition.
- F. Cause and Time of Death – Fish mortalities were due to fish jumping out of the ladder in the vicinity of Diffuser 14.
- G. Impact on fish passage – As with last season, fish jumping at this location is likely related to water temperature and/or changes in operation.
- H. Action Taken – A temporary jump barrier net about 40 feet in length is in placed on the north side of diffuser 14 section of the ladder where fish are most likely jumping. A permanent jump barrier is expected to be installed during the 2015/2016 winter maintenance ladder outage. Corps employees will continue to monitor the ladder during cooling pump operations.
- I. Length of time for repairs: N/A

Elizabeth Holdren
Supervisory Fisheries Biologist
Lower Granite Dam
Ph. 1(509)843-1493 ext.263
Elizabeth.a.holdren@usace.army.mil