

MEMORANDUM FOR THE RECORD**SUBJECT: 18 MCN 07 MFR Outfall Avian Sprinklers and Walkway Out of Service**

Narrative: On June 1, while doing an avian count, the assistant biologist noted handrail missing from the outfall pipe walkway. Due to high flows cresting over the outfall pipe, we have been very concerned about the condition of the outfall pipe, access walkway and avian hazing sprinkler system. On June 3, the project biologist turned in a trouble report and requested the control room not allow anyone on the walkway until it could be inspected. On June 4, when using a spotting scope, we estimated about 100 feet of handrail missing. Later, that day, the Chief of Operations, the Project Manager and a project engineer accessed the outfall walkway. They estimated the last fifth of the walkway was not safe to use. The walkway and avian sprinkler system had both been damaged with sections of each missing. Finally, that day, the project biologist told the avian deterrent team that he had strong reservations about the life span of the new proposed sprinkler system. On June 6, project and district engineers used a boat to examine the outfall walkway and sprinkler system further. They found the walkway had structural support damage, the sprinkler system was missing two of five sprinklers, and the sprinkler supply line was damaged. Repairing the damage will require a contract, which will take time to fund and put in place.

Location: Juvenile outfall walkway and avian hazing water sprinklers at the end of outfall pipe.

Method: Observe the outfall area and report the damage due to high flows and large woody debris.

Time Line - Duration: The sprinklers had been off since May 8, at 1600 hours, due to high flows cresting over the outfall. If serviceable, the system would have been returned to service on June 4. With the walkway missing, repairs to the sprinkler system cannot occur within the near future. Installation of a new sprinkler system was scheduled for 2019. However, walkway repairs and design changes to the walkway and/or sprinkler system will now need to be considered. A return to service date has not been determined.

A. Species: There were no known fish mortalities. Juvenile and adult fish passing through the full flow pipe should not be effected. Predation by avian predators on juvenile fish could increase but hazing by USDA Wildlife Service should help mitigate this.

B. Origin: NA

C. Length: NA

D. Marks and Tags: NA

E. Marks and Injuries Found on the Carcasses: NA

F. Future and Preventative Measures: high flow years are unpredictable. Engineers will have to examine the damage and determine a course forward that can help to strengthen the walkway and sprinkler system.

G. Photos Taken: Yes.





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