Copies of Documents from

IDWR's Mackay Dam file 34-2225

Stubblefield, Mike

From: Stubblefield, Mike
Sent: Wednesday, October 11, 2006 8:20 AM
To: Madsen, Ryan
Subject: Mackay Dam

Ryan,

I talked with Bob Shaffer, Manager Big Lost River Irrigation District this morning about doing an inspection of the outlet at Mackay Dam this fall. Bob indicated that two of the gate stems on the lower outlets are bent and that is the reason they have been having trouble operating the lower gates. He said they planned to work on repairing the gate stems later this week and hoped to have the work completed and have the gates closed down soon after October 15th to start storing water. He said that at present they only have 4% storage left in the reservoir. I told Bob that we would try to schedule an inspection of the outlet about the 1st of November and he said that would be fine. I told Bob that if he had any questions to call you, and to keep you advised of the repairs of the outlet controls at the dam.

Mike

State of Idaho
DEPARTMENT OF WATER RESOURCES
322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 287-4800 Fax: (208) 287-6700 Web Site: www.idwr.idaho.gov.

JAMES E. RISCH
Governor

KARL J. DREHER
Director

October 30, 2006

Bob Shaffer, Manager
Big Lost River Irrigation District
P.O. Box 205
Mackay, ID 83251

RE: Mackay Dam (Outlet Inspection) D34-2225

Dear Mr. Shaffer:

The Department has scheduled an inspection of the outlet at Mackay Dam for Tuesday, November 14, 2006. We will meet you at the dam at approximately 10:00 am. If this time will not work for you, please let me know as soon as possible and hopefully something else can be arranged.

Should you have any questions, please contact me, phone (208) 287-4927, in the State Office in Boise.

Sincerely,

A. Michael Stubblefield, P.E.
Manager, Dam Safety Section

Cc: IDWR – Eastern Region

IDWR

Idaho Department of Water Resources
Dam Safety Section

Memorandum

Date: 11-21-06

To: Mike Stubblefield

File: D34-2225

From: Ryan Madsen

Subject: Mackay Dam Repairs

This fall Mackay Reservoir was lowered to 4 percent. This was done because two of the outlet gates stems were bent and needed replaced. There are five gates located on the outlet tower. Two of the bottom ones needed replaced. Attacked are pictures of the outlet tower, bent stems, and the cofferdam used to back up the reservoir water.

NOTE: PHOTOS TAKEN IN EARLY NOVEMBER, 2006.

Cut Stem

Bent stem

Above: Cofferdam used to back up the reservoir

IDWR

Idaho Department of Water Resources
Dam Safety Section

Memorandum

Date: November 30, 2006

To: Mike Stubblefield

File: D34-2225

From: Ryan Madsen

Subject: Mackay Dam Outlet Inspection

On November 14, 2006 Mike Stubblefield, Manuel Rauhut, Bob Shaffer, and myself inspected the outlet of Mackay Dam. About half way through the outlet several large cracks and holes in the outlet were producing water. There were several holes in the top of the outlet where you could see there was no material for a foot or two. The water was clear, indicating that no sediments were being removed. At the head gates themselves you could see where the concrete had been repaired. These repairs are beginning to break away and will need to be repaired in the future. The repairs appear to be a hard clear plastic/glass material. The flows coming into the outlet apparently were lower this year than previous years. I believe this is due to the fact that the reservoir was emptied this fall. Attached is a picture of one of the holes in the outlet.