



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

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April 6, 2010

**Dan Dial
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**Ken Brown
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DALLAS, OR 97338**

RE: Dam Inspection for Brown-Harland Reservoir; B-45

On April 1st I did a routine visual inspection for this dam. Normally, the purpose of these periodic inspections is to perform an evaluation of the dams to identify any apparent existing conditions or deficiencies that could adversely affect their integrity. In this case, there was a dual purpose to ensure the dam was in satisfactory condition for a pending water right transfer. Otherwise, these inspections are performed on a regular basis to help assure the continued safety of the project works with regard to downstream life and property. A copy of the field sheet of the inspection for the dam is also attached.

In examining the dams upstream and downstream slopes, crest, spillway, trickle tube, toe drains, I found no maintenance issues and found the dam to be in good condition (Figures 1-4). The one weak spot is that the control works for the sliding gate valve has not been cycled in some time. This should be cycled on an annual basis. As a matter for the water right, we still need to get the drawings and other documentation such as specifications that we discussed with your consultant. Otherwise this application is good to go from a Dam Safety standpoint.

Please let me know if you have any questions. We look forward to mutual cooperation regarding the safe operation of this dam.

Sincerely;

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- c. Barry Norris: State Engineer, OWRD
- Mike McCord: Watermaster, OWRD
- Corby Boatwright: Boatwright Engineering



Figure 1. Upstream and downstream slopes and crest of dam showing the excellent control of woody vegetation on the dam.



Figure 2. Outlet and toe drain that have some deterioration but are still in fair functional condition. The outlet conduit is not encased and may need to be lined in the next 10-20 years.



Figure 3. Entrance to the auxiliary spillway. From the lack of erosion and signs of water flow it is rare that water gets into this spillway.



Figure 4. Trickle tube for outlet. The trash rack and general condition appear to be in fair to good condition and it was functioning the day of inspection.