



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

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April 6, 2010

Rob Charles, P.E.
Public Works Director
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RE: Dam Inspection Silver Creek Dam February 19, 2010 (S-66)

On February 19th, I performed an inspection with you and your staff. This is a complimentary routine inspection done for dams that are greater than 10 feet high and 9.2 acre feet in storage. We try to inspect this dam every year because of the downstream resources that could be affected by an uncontrolled release of water from the dam. Attached is an inspection sheet filled out for this dam. The dam is generally in good condition. Listed are some of the issues from last inspection (many of which have been addressed)

- The most pressing problem on this dam from the last inspection was the debris that was lodged on the crest of the spillway (Figure 1). The work to smooth out the transition should help this from re-occurring in the future.
- On the upstream slope of the dam there was an outgrowth of Scotch Broom that at this time is just getting started it appears that there has been consistent effort in keeping this suppressed.
- The toe drains are monitored by the city two times per year. As we mentioned during the last inspection, we would like to get a copy of the findings for the files. During the summer I gave you some visual estimates of flow. I found the following situation on March 10th:
 - All drains flowing clear (I took pictures of all drains and they are available by request)
 - Drain #1 was running heavy but clear est. 15 gal/min
 - Drains 2 (Dripping)
 - Drain 3 was light flow ½ gallon per minute estimate.
 - Drains 4 running moderately heavy est 4 gal per minute
 - Drains 5 and 6 very light to dripping.
 - Drain 7 flowing
 - S#4 was flowing
 - Seepage was heavy especially on North Side of outlet conduit and this should be watched.

- Regarding the concrete spalling on the left side of the spillway during the last inspection, the repairs looked good for this inspection.
- As was the case last year, there was deflection of joints along the spillway but in examining this picture in comparison to the others we took in the past we do not see any additional movement for a great deal of time based on examining past pictures. No action is necessary regarding this issue as was the case last year.
- As we have communicated several times over the years dam really needs to have an Emergency Action Plan (EAP). Congratulations on finally getting this done. We also would be happy to assist on advise in regards to your emergency warning and monitoring system that you are planning to install.

Please let me know if you have any questions. We look forward to continued mutual cooperation to insure the safety and stability of this dam.

Sincerely;



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cc Barry Norris (OWRD)
Mike McCord (Watermaster, OWRD)