

## **Notes from Dam Inspection by State of Washington Dept. of Ecology on Sept. 10, 2020**

Date: 9:30 am, Thursday, Sept. 10, 2020

Present: Jintae Lee, Dam Safety Office, Dept. of Ecology

Martin Walther, Dam Safety Engineer, Dept. of Ecology

Dennis Floyd, LLVCC president, lake management chairman

We met at the office and started with a review of maintenance records and past dam inspection reports. Jintae requested an electronic copy of the Emergency Preparedness document which was updated by Laurie recently with names of current officers and phone numbers of people living downstream from the weir. He also requested the amended statement for the management of the weir. This states the Board approved locking the weir boards in place effective October 2018 to maintain a consistent level of water in the lake while providing for seasonal outflow downstream to support salmon migration.

Their inspection continued at the earthen dam. Jintae requested we mow the entire slope of the dam in the future rather than just a clear path to the secondary valve. Martin explained the best way to test the valves would be to open the first valve (in the water just off the dock) and open the secondary valve at the base of the backside of the earthen dam. Once we observe the flow of water, then close the secondary valve followed by closure of the first valve. Then re-open the secondary valve to allow dispersal of trapped water and finally close the secondary valve. We were also asked to monitor mole activity on the slope of the earthen dam leading down to the secondary valve. I have requested that Robert, our maintenance person, give this matter immediate attention.

Jintae and Martin surveyed the entire length of the earthen dam surface to record the height of the dam above the lake water level every 25 feet along the crown of the dam. These measurements are taken during State inspections of the dam and compared with previous survey measurements to determine if there are any issue related to soil settlement.

We finished at the weir and stream bed leading to the culverts. We had permission from Richard Bell to be on his property for this inspection. Across from Bell's property there is a tree with some roots exposed located at the far edge of the weir. Jintae asked us to keep an eye on it, as there is a chance it could fall across the weir if the tree becomes more unstable. Additionally, we were asked to remove moss buildup from the concrete surface areas of the weir so that future inspectors could easily see the condition of the entire concrete weir surface. The moss growth occurs in just a few areas on the weir surface. I will clean off moss growth from the concrete weir as part of my routine during future monthly inspections.

We finished by observing the flow path of the stream beyond the culverts positioned under E. LakeShore Drive. Though this topic is not part of the dam inspection, it was pointed out that the property owned by Joan Thornton (Lot 59, Division 7) has erosion of the stream bank near the back corner of the home and deck and probably needs attention to prevent further soil erosion. I will share this observation with the Architectural Control Committee next week.

Jintae and Martin were complimentary of our efforts to maintain the dam, our weir and related records. We are awaiting a formal report on this inspection, which should be sent within a few weeks.

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