



November 25, 2014

Mr. Steve Koenig  
Sauk County Parks  
S7995A White Mound Drive  
Hillpoint, WI 53973

Subject: Dam Safety Inspection – Hemlock Dam, Field File # 56.32, Key Seq # 956, Sauk County

Dear Mr. Koenig:

I have reviewed the inspection report prepared by Christopher T. Goodwin, P.E., Ayres Associates which was submitted to the Department of Natural Resources (Department) on November 20, 2014. The report and recommendations meet the requirements of Ch. 31.19, Wis. Statutes for owner-responsible inspections of large dams. Your consultant identified deficiencies at the dam and recommended repairs to bring the dam into compliance with NR 333.05 and NR 333.07.

The inspection report includes timeframes for addressing the deficiencies and improving the safety and structural integrity of the dam. We have used the recommended timeframes and added one item below in our directives for making repairs to bring the dam into compliance with the code.

#### **DIRECTIVES**

The following deficiencies must be corrected by the dates given:

- |  |                   |
|--|-------------------|
| 1. Install dam warning sign  | May 1, 2015       |
| 2. Mow embankment  | May 1, 2015       |
| • Mow all portions of the primary embankment, including upstream and downstream slopes and crest. After mowing, inspect the embankment for any seepage, rodent holes or slumping. Provide photos and a brief summary after work is complete. |                   |
| 3. Prepare and Submit Emergency Action Plan (EAP)  | July 1, 2015      |
| 4. Prepare and Submit Dam Failure Analysis (DFA)   | July 1, 2015      |
| • Please have your consultant contact Bill Sturtevant, State Dam Safety Engineer prior to starting work on the DFA.  |                   |
| 5. Evaluate Options for Spillway Replacement   | December 31, 2015 |
| • Also consider necessity of the backflow preventer. Note that when the spillway is replaced, a verified benchmark will be required.   |                   |

#### **ADDITIONAL DIRECTIVES**

These additional deficiencies must be corrected by the dates given:

- |  |              |
|--|--------------|
| 6. Prepare and Submit Inspection, Operation and Maintenance Plan (IOM) | July 1, 2015 |
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In order for us to consider a schedule other than this, you must submit your alternative schedule by March 1, 2015. If we do not hear from you by then, the schedule we have determined will be in effect.

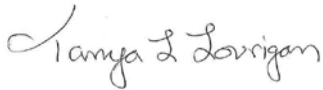
**Please note that item numbers 4 and 5 above must be designed by an engineer registered in Wisconsin and plans must be submitted to this Department for review and approval before any work is performed on the dam.**

Hemlock Dam has an estimated hazard rating of low. State Statutes requires that you have the dam inspected every ten years by an engineer registered in Wisconsin. Your next scheduled owner inspection is in 2024. In the interim, you should continue to monitor and inspect your dam on a regular basis.

Based on information from your inspection and the Department's file, I completed a Sufficiency Rating for Hemlock Dam. The Sufficiency Rating is a snapshot of the dam's physical condition and compliance with NR 333 requirements. The dam is classified as **Conditionally Fair** because some maintenance is required and the IOM and EAP need to be developed. By completing these items, it may be possible to change the classification to Satisfactory or Fair. The Sufficiency Rating helps the Dam Safety Program track progress of the dam and whether the Program is meeting its goal of promoting safe dams. The rating has no direct consequence of enforcement; however, not completing directives listed above could trigger enforcement.

If you have questions concerning this letter or the operation and maintenance of your dam, or are uncertain how to proceed with the directives, please contact me at Tanya.Lourigan@wisconsin.gov or (608) 275-3287.

Sincerely,

A handwritten signature in cursive script that reads "Tanya L. Lourigan".

Tanya L. Lourigan, P.E.  
Water Management Engineer  
Fitchburg Service Center

cc: Christopher T. Goodwin, P.E. – Ayres Associates (via email)  
Bill Sturtevant, P.E., State Dam Safety Engineer – DNR Madison WT/3 (via email)