

Memorandum

To: Robert Davis, PE – Wisconsin Department of Natural Resources
From: Robert Montgomery, PE
Date: March 21, 2014
cc: Brian Christianson, Rock Koshkonong Lake District
Re: Inspection of Indianford Dam - WDNR Field File 53.04

This memorandum summarizes the safety inspection of the Indianford Dam, WDNR Field File 53.04. Prior to the inspection, staff from Montgomery Associates: Resource Solutions, LLC (MARS) reviewed existing documentation of the dam including data downloaded from the DNR electronic file system. Specific file data reviewed included:

- The December 17, 1997 dam inspection report by DNR issued to rock County. This report noted a number of repairs that would be required and assigned a preliminary dam hazard rating of low hazard.
- The Repair Plans and Specifications prepared by Mead & Hunt for Rock County dated July 2003.
- Approval of the transfer of the Indianford Dam from Rock County to the Rock Koshkonong Lake District dated May 7, 2004, confirming satisfactory completion of repairs based on maiden Hunt plans and compliance with permit requirements.

Additionally, observational data compiled over the past several years by MARS prioritize the activities conducted during the field dam safety inspection.

On December 5, 2013, an inspection team consisting of Robert a Jones, PE (GKS engineering) and Robert J Montgomery, PE (MARS) conducted a visual inspection of Indianford Dam. An inspection report and associated photo log has been prepared and is attached to this memorandum. The inspection did not uncover any concerns regarding structural integrity or stability of the dam, gates or powerhouse. However, a number of operational issues were noted, including the following:

1. The Emergency Action Plan and Operation Inspection and Maintenance Plan need to be updated
2. The portable motor driven actuator and stem covers for the six slide gates need maintenance
3. Installation of a motorized system for clearing debris from the powerhouse intake trash racks should be considered together with completion of the sediment accumulation and debris clearing program that was initially proposed for the fall of 2013.

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The 2013 trash rack clearing and sediment removal project was delayed due to high bids received for the work; the plan to conduct this work is being reconsidered for 2014.

We will develop a proposed action plan for addressing the issues noted in this inspection is consistent with the DNR's suggested time frames for follow-up on dam inspection directives.

We would appreciate your comment on this inspection report so we can work together to develop a plan for addressing the issues identified.

Attachments: Indianford Dam Photographs (Taken 12/5/13)
Indianford Dam Checklist (Dated 12/5/13)

Inspection of Indianford Dam (Key Seq # 608) December 5, 2013	
File Name	Description
0060812051301.jpg	View along crest of dam
0060812051302.jpg	Three missing stem covers
0060812051303.jpg	Downstream view of dam



Photo 0060812051301 – View along crest of dam



Photo 0060812051302 – Three missing stem covers



Photo 0060812051303 – Downstream face of dam