



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER RESOURCES DIVISION  
DAM INSPECTION REPORT**

This form is to be used for inspection reports required by Part 307, Inland Lake Levels, for those dams that do not meet the size criteria as defined by Part 315, Dam Safety, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Dams six (6) feet or more in height, as defined by Part 315, and impounding five (5) acres or more at the design flood elevation, must meet the inspection report format as outlined in Section 31518 of Part 315.

A person failing to comply, or falsely representing dam conditions, is guilty of misconduct in office.

DAM NAME Fortune Lake Level Control Structure		DAM ID 809	COUNTY Iron
DATE OF INSPECTION October 7, 2020	NAME OF WATERBODY Fortune Lake	SECTION, TOWN, RANGE Sec 23, T43N, R33W	LEVEL THIS DATE 1367.4 +/-
DATE ELEVATION SET BY COURT June 4, 1970	LEGAL LEVEL Summer 1365.9 Winter 1365.7	DRAWDOWN LEVEL n/a	HIGH WATER MARK ELEVATION 1367.4 +/-

**EARTH EMBANKMENTS** LEFT EMBANKMENT approx. 100 FT. RIGHT EMBANKMENT approx. 200 FT. TOTAL LENGTH 300 FT. (LOOKING DOWNSTREAM)

	UPSTREAM	CROWN	DOWNSTREAM
VEGETATIVE COVER	Trees/brush	Trees/brush	Trees/brush
EROSION	None	None	None
SEEPAGE			None
SLIDES, SLUMPS & CRACKS	None	None	None
ANIMAL BURROWS	None	None	None
WAVE ACTION PROTECTION	None		None
REMARKS*	See attached photos		

**CONTROL STRUCTURE**

TYPE Treated lumber	YEAR CONSTRUCTED August 1990	STRUCTURAL HEIGHT (top of dam elevation minus stream invert) 4 feet
LENGTH OF SPILLWAY 9 feet	FREEBOARD Approx. 1 foot	HYDRAULIC HEIGHT (design flood elevation minus stream invert) 4 feet
VERTICAL PIPE SIZE n/a	HORIZONTAL PIPE SIZE n/a	HEAD (normal headwater minus normal tailwater) Approx. 1 foot

**DESCRIBE CONDITION OF THE FOLLOWING ITEMS.**

<p>STOPLOG VALVES AND GATES (open and close to check condition): Check location of top stoplog in relation to top of riser pipe intake box or fixed crest, for leakage, and condition of stoplogs, valves and gates.</p> <p>Various size stoplogs can be installed or removed to manage water level. Previous report indicates seepage/leakage through and under sill when stoplogs are in place. Current water elevation is higher than ever recorded. No stoplogs in place on this date.</p>
<p>OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating.</p> <p>n/a</p>

**CONTROL STRUCTURE (continued)**

CONCRETE STRUCTURE: Check for erosion; location of cracking or spalling. If old or new; settlement; need for crack repairs. Concrete elements in fair condition. No significant cracking or spalling.	
WALKWAY & RAILING: Check if in place or removed, condition, and if adequate protection provided. Recently painted and in good condition	TRASHRACK OR LOG BOOM: Check if operable. n/a
EMERGENCY SPILLWAY: Size, type, and condition. n/a	

**INLET & OUTLET CHANNELS**

	INLET	OUTLET
SIZE	9 feet	Approximately 10-12 feet wide channel
EXISTING CONDITION	Good	Good
EROSION	No apparent erosion	No apparent erosion
DEBRIS & OBSTRUCTIONS	None	None
RIPRAP PROTECTION	Some rip rap—see photos	A few rocks/stones—see photos
REMARKS*	Water level 1.5 feet above normal summer level.	

**RECOMMENDATIONS**

List work needed, how to be done, by whom, estimated cost, source of funds, recommended completion date. If emergency, to what extent. ADDITIONAL COMMENTS.

No visual evidence of developing failure modes was observed during the inspection.  
 Keep trees and brush clear from dam embankments and near spillway.  
 Drain Commissioner should consider development of drainage/assessment district and an easement for access as none currently exist.  
 Additional level gage was added after inspection was completed.

Inspection Ordered By: Bill Casagrande, Drain Commissioner

Iron County Delegated Agent

James T. Pawloski, PE

INSPECTOR'S NAME (PRINTED)



SIGNATURE

34034

P.E. REGISTRATION NO.

ADDRESS 5081 East Martin Lake Drive

CITY, STATE, ZIP CODE Gaylord, MI 49735

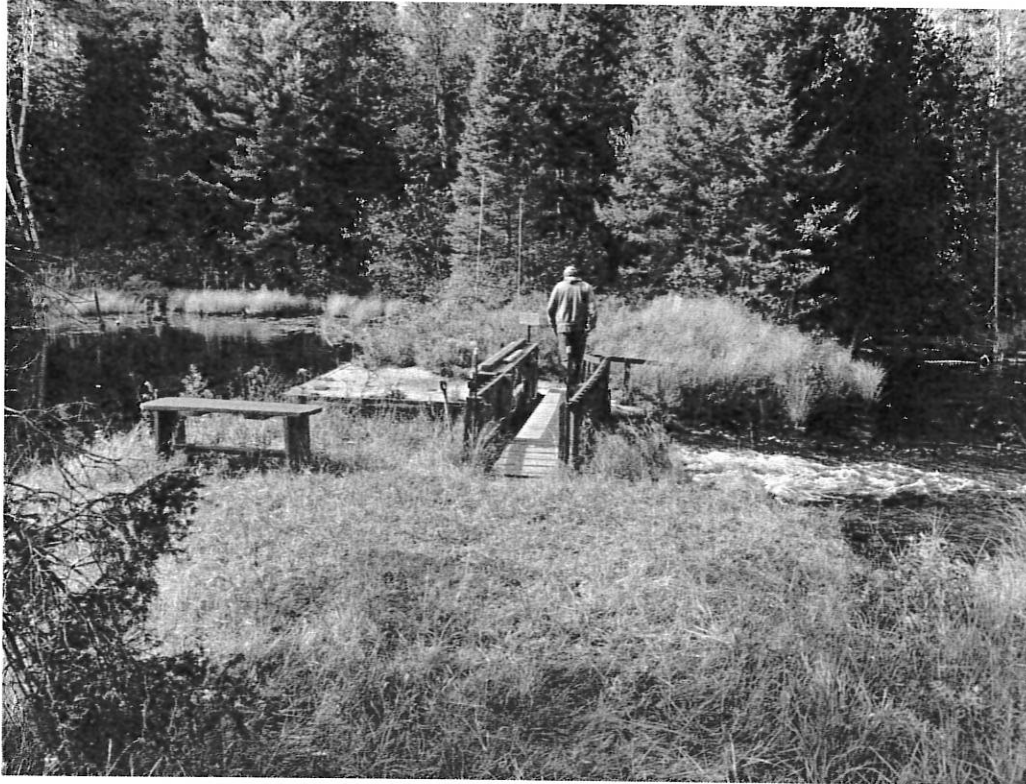
TELEPHONE NUMBER 231-499-5608

Please submit this completed report and photographs of the dam, downstream channel, and deficiencies cited in the report to:

DAM SAFETY PROGRAM  
 WATER RESOURCES DIVISION  
 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
 PO BOX 30458  
 LANSING MI 48909-7958

\*NOTE: If space is inadequate for remarks, attach additional sheets as needed.

**FORTUNE LAKE LEVEL CONTROL STRUCTURE  
DAM ID 809  
IRON COUNTY**



**PHOTOGRAPH 1— Structure viewed from right abutment**



**PHOTOGRAPH 2—View from left abutment**

**FORTUNE LAKE LEVEL CONTROL STRUCTURE  
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IRON COUNTY**



**PHOTOGRAPH 3—Close view of spillway/stolog section**



**PHOTOGRAPH 4—View of spillway/stolog section and inlet channel**



**FORTUNE LAKE LEVEL CONTROL STRUCTURE  
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**PHOTOGRAPH 5— View of spillway/stoplog section and inlet channel**



**PHOTOGRAPH 6—View of downstream face and outlet channel**

**FORTUNE LAKE LEVEL CONTROL STRUCTURE  
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IRON COUNTY**

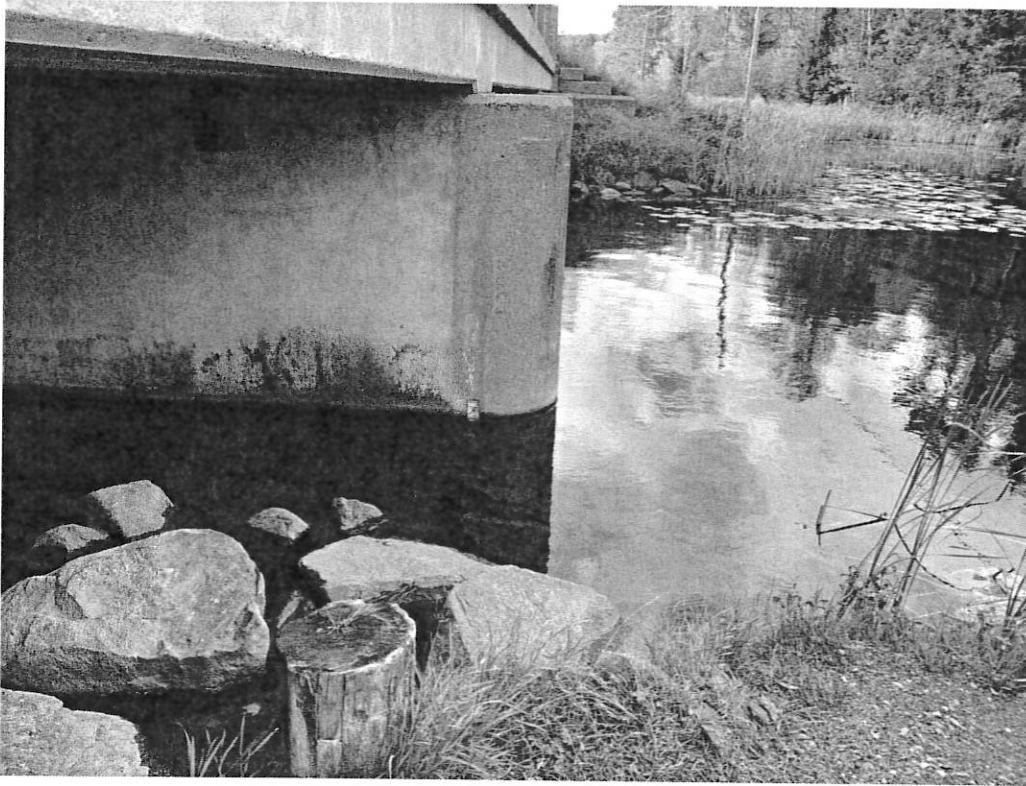


**PHOTOGRAPH 7— View of downstream face and outlet channel**



**PHOTOGRAPH 8—US-2 bridge with elevation gage**

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**PHOTOGRAPH 9—Elevation gage at water level on bridge pier**