



**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 Stager Lake Level Control Structure		DAM ID 2532	COUNTY Iron
DATE OF INSPECTION October 7, 2020	NAME OF WATERBODY Stager Lake	SECTION, TOWN, RANGE Sec 32, T42N, R32W	LEVEL THIS DATE 1288.5 +/-
DATE ELEVATION SET BY COURT July 21, 1958	LEGAL LEVEL Summer 1288.0 Winter 1287.5	DRAWDOWN LEVEL n/a	HIGH WATER MARK ELEVATION 1288.5

none

EARTH EMBANKMENTS LEFT EMBANKMENT n/a_FT. RIGHT EMBANKMENT n/a_FT. TOTAL LENGTH n/a_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	Concrete block headwall		
REMARKS*	See attached photos		

CONTROL STRUCTURE

TYPE Concrete block with steel sill	YEAR CONSTRUCTED unknown	STRUCTURAL HEIGHT (top of dam elevation minus stream invert) 2 feet
LENGTH OF SPILLWAY 7.4 feet	FREEBOARD Approx. 1 foot	HYDRAULIC HEIGHT (design flood elevation minus stream invert) 2 feet
VERTICAL PIPE SIZE n/a	HORIZONTAL PIPE SIZE n/a	HEAD (normal headwater Approx. 1 foot minus normal tailwater)

DESCRIBE CONDITION OF THE FOLLOWING ITEMS.

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. Single 2x8 stoplog removed for winter level and in good condition
OUTLET PIPE: Check for damage from ice, logs, vandalism; inside discharge pipe for settlement and/or joint separation; condition of pipe coating. n/a

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	Inlet is basically impoundment	Approximately 10-12 feet wide stream channel
EXISTING CONDITION	Good	Good
EROSION	No apparent erosion	No apparent erosion
DEBRIS & OBSTRUCTIONS	Some aquatic vegetation—see photos	A few rocks/stones—see photos
RIPRAP PROTECTION	Some at base of structure—see photos	Some at base of structure—see photos
REMARKS*		

RECOMMENDATIONS

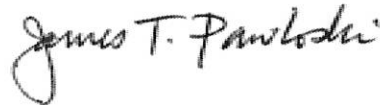
List work needed, how to be done, by whom, estimated cost, source of funds, recommended completion date. If emergency, to what extent. ADDITIONAL COMMENTS.

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.
 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

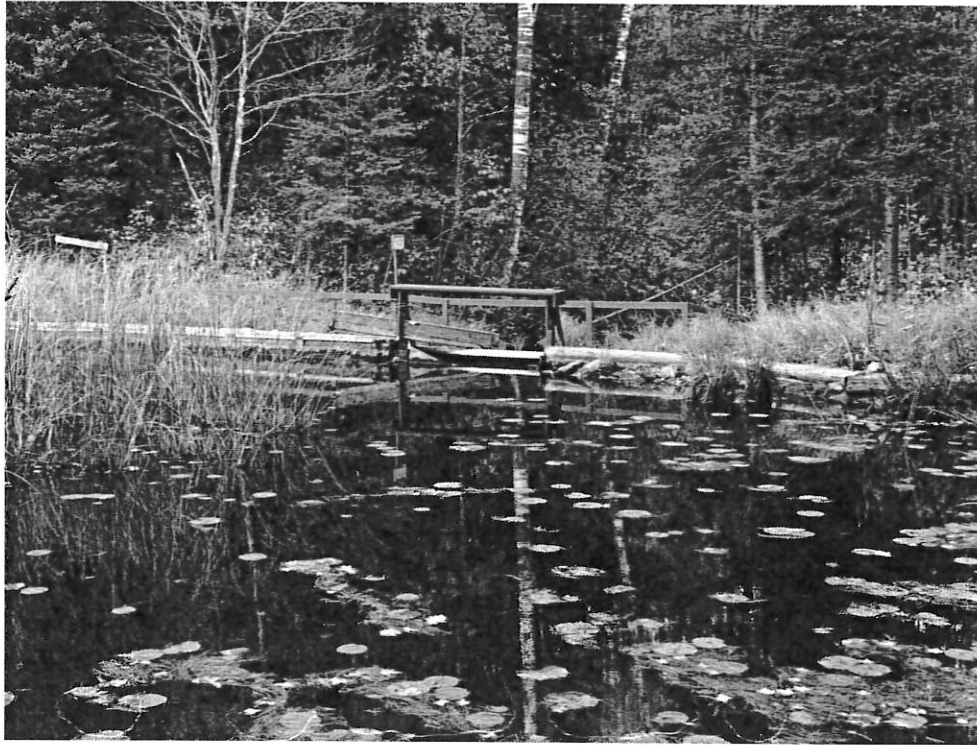
TELEPHONE NUMBER 231-499-5608

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.

**STAGER LAKE LEVEL CONTROL STRUCTURE
DAM ID 2532
IRON COUNTY**



PHOTOGRAPH 1—Structure viewed from upstream



PHOTOGRAPH 2—View from right abutment

**STAGER LAKE LEVEL CONTROL STRUCTURE
DAM ID 2532
IRON COUNTY**



PHOTOGRAPH 3—Close view of spillway/stolog section

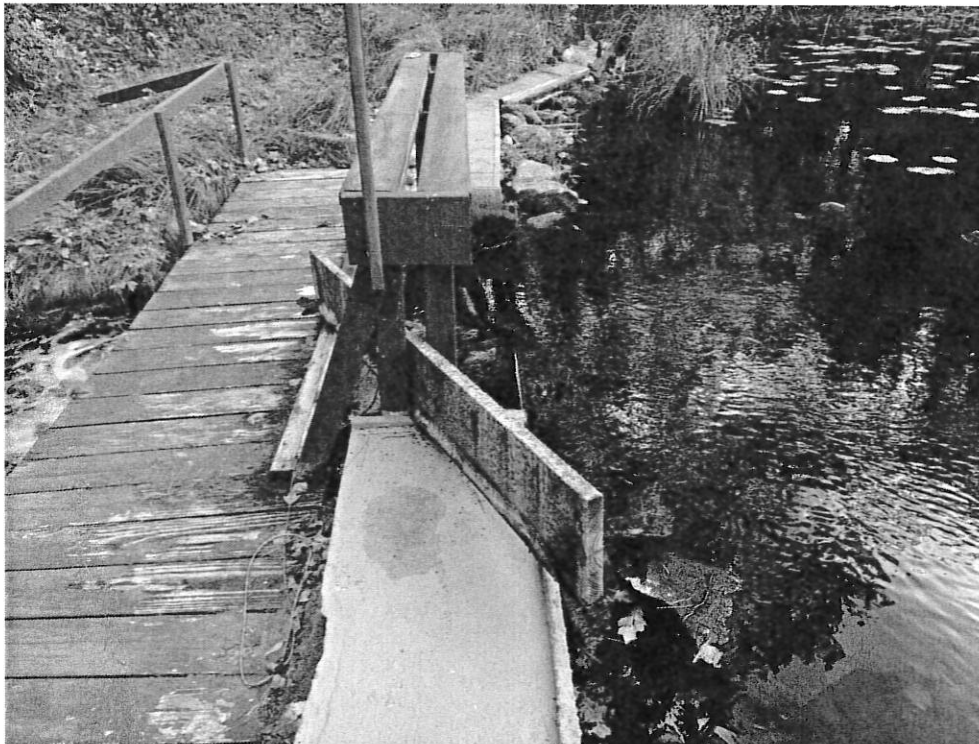


PHOTOGRAPH 4—Close view of spillway/stoplog section

**STAGER LAKE LEVEL CONTROL STRUCTURE
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IRON COUNTY**



PHOTOGRAPH 5—Stoplog in raised position



PHOTOGRAPH 6—Close view of upstream face

**STAGER LAKE LEVEL CONTROL STRUCTURE
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PHOTOGRAPH 7—Structure viewed from left abutment



PHOTOGRAPH 8—Outlet channel