Dam Inspection Report

Name of Dam: Wonder Lake — Dam ID No.: IL00585

Permit Number: NE2003078 — Class of Dam: Class I

Location: SE — Section: 6 — Township: 45N — Range: 8E

Owner: The Master Property Owners Association — 815-653-1000
Name — Telephone Number (Day)

7602 Hancock Drive — 815-653-1000
Street — Telephone Number (Night)

Wonder Lake, IL — 60097 — McHenry
City — Zip Code — County

Type of Dam: Earth-Fill Embankment with Ambursen Spillway

Type of Spillway: Ungated Overflow

Date(s) Inspected: 10/16/2026

Weather When Inspected: Cloudy / Light Rain

Temperature When Inspected: 56 degrees

Pool Elevation When Inspected: 802.38 (approximately 1" above spillway crest (EL. 802.3')

Tailwater Elevation When Inspected: NA



Exps 11/30/2027

Professional Engineer's Seal

Inspection Personnel:

Name	Title
Jeff Barnett, PE, SE	CBBEL - Structural Engineer
Emma Dahl	CBBEL - Water Resourses Engi
Randy Stowe	MPOA Lake Manager
Tom Cooper	MPOA Dam Committee Chair
Ray O'Brien	MPOA Lake President
Paul Mauer/Mark McCauley	IDNR-OWR
Zia Lutfi	CBBEL - Structural Intern

The Department of Nautural Resources is requesting information that is necessary to accomplish the statutory purpose as outlined under the River, Lakes and Streams Act, 615 ILCS 5. Submittal of this information is REQUIRED. Failure to provide the required information could result in the initiation of non-compliance procedures as outlined in

CONDITION CODES

NE - No evidence of a problem

GC - Good condition

MM - Item needing minor maintenance and/or repairs within the year, the safety or integrity of the item is not yet imperiled

IM - Item needing immediate maintenance to restore or ensure its safety or integrity

EC - Emergency condition which if not immediately repaired or other appropriate measures taken could lead to failure of the dam

OB - Condition requires regular observation to ensure that the condition does not become worse

NA - Not applicable to this dam

NI - Not inspected - list the reason for non-inspection under deficiencies

EARTH EMBANKMENT

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Surface Cracks	*NE*		
Vertical and Horizontal Alignment of Crest	*GC*		
Unusual Movement or Cracking At or Beyond Toe	*NE*		
Sloughing or Erosion of Embankment and Abutment Slopes	*NE*		
Upstream Face Slope Protection	*OB*	Slight erosion / missing rip rap in some places on upstream slope	Monitor and add rip rap if necessary
Seepage	*OB*	There is some standing water at toe of west embankment due to adjacent Fen located to the north	Monitor for any changes This wet area has remained unchanged from the previous dam inspections
Filter and Filter Drains	*NE*		

EARTH EMBANKMENT
(Continued)

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Animal Damage	*OB*	Evidence of small animal activity on east and west embankment	Continue to monitor
Embankment Drainage Ditches	*GC*		
Vegetative Cover	*GC*		
Other (Name) Piezometers	NI	Two noted at west end of embankment but were locked.	It was explained that these are not in use.
Other			
Other			
Other			

CONCRETE OR MASONRY DAMS

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Seepage	*NA*		
Structure to Abutment/ Embankment Junctions	*NA*		
Water Passages	*NA*		
Foundation	*NA*		
Surface Cracks in Concrete surface	*NA*		
Structural Cracking	*NA*		
Vertical and Horizontal Alignment	*NA*		

CONCRETE OR MASONRY DAMS
(CONTINUED)

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Monolith Joints	*NA*		
Contruction Joints	*NA*		
Spalling of Concrete	*NA*		
Filters, Drains, etc.	*NA*		
Riprap	*NA*		
Other (Name)			

IF THE DAM IS GATED - Fill out the portion of the Principal Spillway Form related to Gated Spillways

PRINCIPAL SPILLWAY
APPROACH CHANNEL

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Debris	*NE*		
Side Slope Stability	*GC*		
Slope Protection	*GC*		
Other (Name)			
Other			
Other			
Other			

PRINCIPAL SPILLWAY

Drop Inlet Spillway | **Overflow Spillway Structure (Ambursen)** | Gated

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	*MM*	Minor spalling is evident.	Perform concrete repairs as needed.
Structure to Embankment Junction	*OB*	Work on retaining walls has been completed in 2022.	Monitior additional areas of spalling concrete and repair as needed. Monitor erosion at downstream corners of abutment/embankment junction.
Drains	*NE*		
Seepage Around or Into Structure	*MM*	Minor seepage and weeping thru several walls. There were seepage through top of spillway at chamber 3 and 7. The seepage is similar to last year's inspection.	Continue to monitor. No significant changes noted.
Surface Cracks	*OB*	Existing grouted repair areas appear in good condition. There are minor cracks with leaching that should be monitored for future leaking.	Continue to monitor for any changes to current conditions.
Structural Cracks	*MM*	There are some minor cracks within most chambers.	Continue to monitor for any changes to current conditions. Area around cracks have been repaired.

IF THE SPILLWAY IS GATED FILL OUT THE GATES SECTION

PRINCIPAL SPILLWAY
(Continued)

Drop Inlet Spillway | **Overflow Spillway Structure (Ambursen)** | Gated

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Alignment of Abutment Walls (wingwalls)	*GC*		
Construction Joints	*NA*		
Filter and Filter Drains	*NA*		
Trash Racks	*NA*		
Bridge and Piers	*NA*		
Differential Settlement	*NE*		
Other (Name)	*GC*	Safety cables installed along dam walkway.	

IF THE SPILLWAY IS GATED FILL OUT THE GATES SECTION

PRINCIPAL SPILLWAY

(Continued)

Conduit Gated

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	*NA*		
Joint Separation	*NA*		
Seepage Around of Into Conduit	*NA*		
Surface Cracks	*GC*	Water level was above the top of spillway, and the Spillway surface was not visible.	
Structural Cracks	*GC*	Water level was above the top of spillway, and the Spillway surface was not visible.	
Trash Racks	*NA*		
Differential Settlement	*NA*		
Alignment	*NA*		
Other (Name)			

IF THE SPILLWAY IS GATED FILL OUT THE GATES SECTION

PRINCIPAL SPILLWAY

(Continued)

Chute

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	*NA*		
Structure to Embankment Junction	*NA*		
Construction Joints	*NA*		
Expansion and Contraction Joints	*NA*		
Differential Settlement	*NA*		
Surface Cracks	*NA*		
Structural Cracks	*NA*		
Wall Alignment	*NA*		
Other (Name)			

IF THE SPILLWAY IS GATED FILL OUT THE GATES SECTION

GATES

Principal Spillway | **Dewatering** | Other:

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Gate Sill	*GC*	Both gates were opened and closed during the dam inspection. There are no issues with the gate components.	
Gate Seals	*GC*	Both gates opened and closed during the dam inspection. There are no issues with the gate components.	
Gate and Frame	*GC*	Both gates were opened and closed during the dam inspection. There are no issues with the gate components.	
Operating Machinery	*NI*		
Emergency Operating Machinery	*NA*		
Other (Name)			
Other			

OUTLET WORKS
IF SEPARATE FROM PRINCIPAL SPILLWAY STRUCTURE

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	*NA*		
Joint Separation	*NA*		
Seepage Around or Into Conduit	*NA*		
Intake Structure	*NA*		
Outlet Structure	*NA*		
Outlet Channel	*NA*		
Riprap	*NA*		
Other (Name)			
Other			

ENERGY DISSIPATOR

Principal Spillway
Type: *Plunge Pool*

Outlet Works

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion, Spalling, Cavitation	*NE*		
Structure to Embankment Junction	*GC*		
Construction Joints	*GC*		
Surface Cracks	*NE*		
Structural Cracks	*NE*		
Differential Alignment	*NE*		
Expansion and Contraction Joints	*GC*		

ENERGY DISSIPATOR

Principal Spillway (Continued)

Type: *Plunge Pool* Outlet Works

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Riprap	*GC*		
Outlet Channel	*GC*	Minor erosion but overall good condition and stable. No threat to dam.	
Debris	*NE*		
Other (Name)	*NA*		
Other	*NA*		
Other			
Other			

EMERGENCY SPILLWAY

None

ITEM	CONDITION CODE	DEFICIENCIES	RECOMMENDED REMEDIAL MEASURES AND IMPLEMENTATION SCHEDULE
Erosion	*NA*		
Weeds, Logs, Other Obstructions	*NA*		
Side Slope Sloughing	*NA*		
Vegetation	*NA*		
Sedimentation	*NA*		
Riprap	*NA*		
Settlement of Crest	*NA*		
Downstream Channel	*NA*		
Other (Name)			

SUMMARY OF MAINTENANCE DONE AND/OR

REPAIRS MADE SINCE THE LAST INSPECTION

DATE OF PRESENT INSPECTION *10/16/2026*

DATE OF LAST INSPECTION *10/3/2025*

1. EARTH EMBANKMENT DAMS

None.

2. CONCRETE MASONRY DAMS

None.

3. PRINCIPAL SPILLWAY

None.

4. OUTLET WORKS

Bent west sluice gate shaft repaired
and sluice gate shaft protection installed
on both east and west gates.

5. EMERGENCY SPILLWAY

N/A

SEE ATTACHED EXHIBIT

DOWNSTREAM DEVELOPMENT
APPROXIMATE WIDTH OF AFFECTED FLOODPLAIN 0.25 MILES

MILES DOWNSTREAM FROM DAM	DOWNSTREAM DEVELOPMENT												Loss of Life Potential			Economic Loss Potential		
	OCCUPIED HOMES	UNOCCUPIED HOMES	AGRICULTURAL BUILDINGS	INDUSTRIAL BUILDINGS	COMMERCIAL BUILDINGS	SCHOOLS	HOSPITALS	ROADS & BRIDGES	DAMS	OVERHEAD UTILITIES	OTHER DEVELOPMENT (Name	OTHER DEVELOPMENT (Name	NONE	1 TO 10	OVER 10	MINIMAL EXPECTED	APPRECIABLE EXPECTED	EXCESSIVE EXPECTED
0 to 1/4																		
1/4 to 1/2	4	1						1						x		x		
1/2 to 3/4	2		1		1									x		x		
3/4 to 1																		
1 to 1-1/4																		
1-1/4 to 1-1/2																		
1-1/2 to 1-3/4																		
1-3/4 to 2								1					x			x		
OVER 2																		

SKETCH IN DEVELOPMENTS DOWNSTREAM OF THE DAM

RESERVOIR

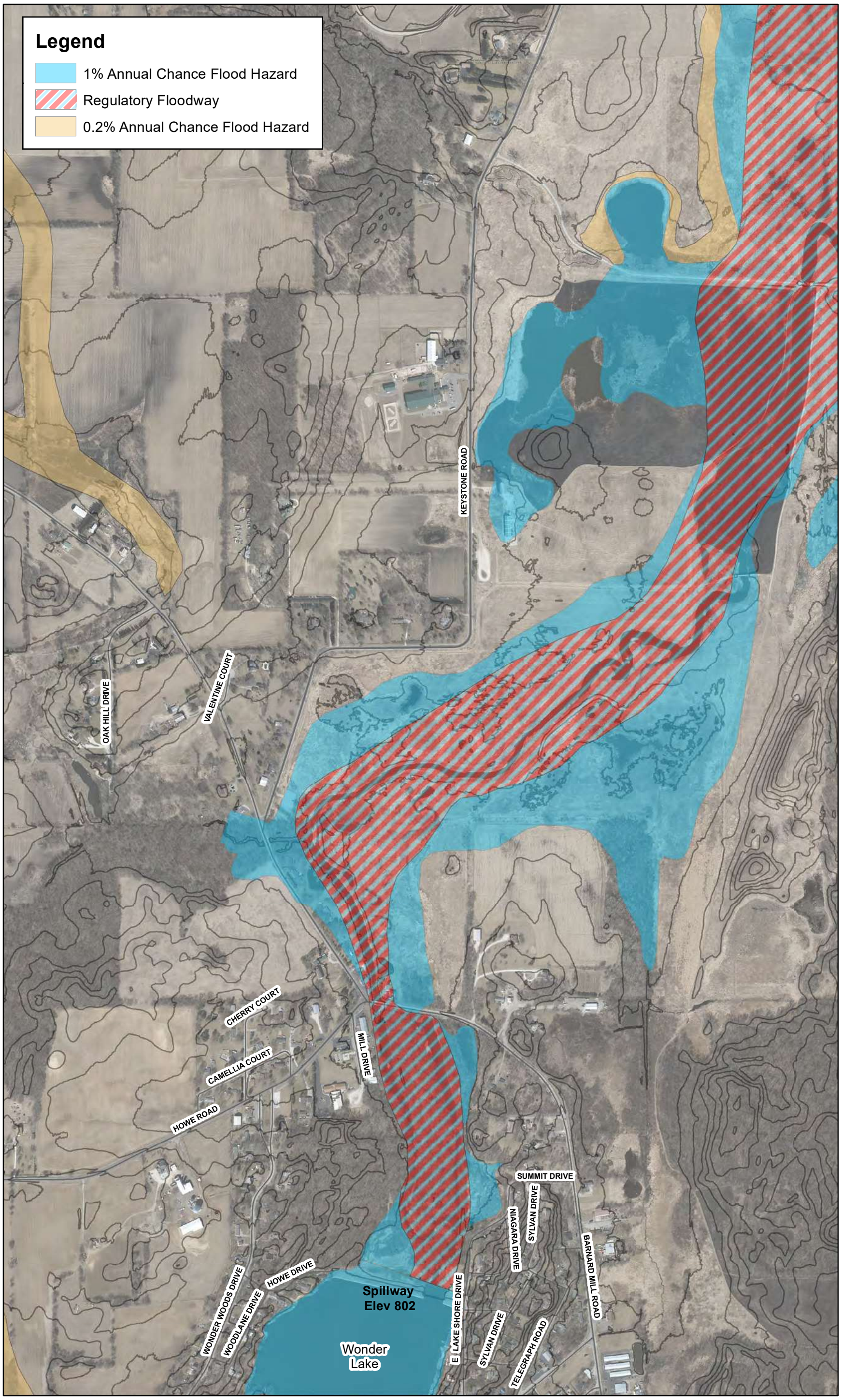
DAM

Downstream

See Attached Mapping for Areas Downstream of the Dam

Channel

The number of homes, buildings, or other items in the floodplain downstream of the dam should be placed in the appropriate row and column to designate their location.


Legend
1% Annual Chance Flood Hazard
Regulatory Floodway
0.2% Annual Chance Flood Hazard
KEYSTONE ROAD
OAK HILL DRIVE
VALENTINE COURT
CHERRY COURT
MILL DRIVE
CAMELLIA COURT
HOWE ROAD
SUMMIT DRIVE
SYLVAN DRIVE
NIAGARA DRIVE
BARNARD MILL ROAD
HOWE DRIVE
WONDER WOODS DRIVE
WOODLANE DRIVE
Spillway
Elev 802
E LAKE SHORE DRIVE
SYLVAN DRIVE
TELEGRAPH ROAD
Wonder
Lake

Owner's Maintenance Statement

The Master Property Owners Association, owner of The Wonder Lake Dam,

Dam Identification Number IL00585, in McHenry County,

am maintaining the dam in accordance with the accepted maintenance plan which is part of

Permit Number NE2003078.

Ray O'Brien
Signature

October 31, 2026
Date

Owner's Operation and Maintenance Plan Statement

The Master Property Owners Association, owner of The Wonder Lake Dam,

Dam Identification Number IL00585, in McHenry County,

am maintaining the dam in accordance with the accepted maintenance plan which is part of

Permit Number NE2003078.

I ( ) have enclosed the appropriate revisions or

(x) have determined that no revisions to the plan are necessary.

Ray O'Brien
Signature

October 31, 2026
Date

The Department of Natural Resources is requesting information that is necessary to accomplish the statutory purpose as outlined under the River, Lakes and Streams Act, 615 ILCS 5. Submittal of this information is REQUIRED. Failure to provide the required information could result in the initiation of non-compliance procedures as outlined in Section 3702.160 of the "Rules for Construction and Maintenance of Dams".



Photo 1: Spillway Crest (Facing East)



Photo 2: Downstream Face of Spillway



Photo 3: Downstream Channel



Photo 4 - Downstream Face of Spillway (West Abutment)



Photo 5: East Abutment



Photo 6: Downstream Face of East Embankment



Photo 7: Top of East Embankment (Facing West)



Photo 8: East Sluice Gate Control. Note West Sluice Gate Similar. Both Gates Are Operational.



Photo 9: East Side of East Sluice Gate Control



Photo 10: Wonder Lake - Upstream of Dam



Photo 11: East Embankment – Upstream Face Riprap (Facing East)



Photo 12: A Power Pole Has Fallen on the Downstream Side of the West Embankment (Facing East)



Photo 13: Upstream Side of West Embankment (Facing East)



Photo 14 - Western Embankment – (Facing West)



Photo 15 – Erosion at Downstream End of East Abutment - Monitor



Photo 16 - Erosion at Downstream End of West Abutment - Monitor



Photo 17: Chamber #1 – Looking West



Photo 18: Chamber #1 – Upstream Wall



Photo 19: Chamber #1 – Downstream Wall



Photo 20: Chamber #1 – Looking East

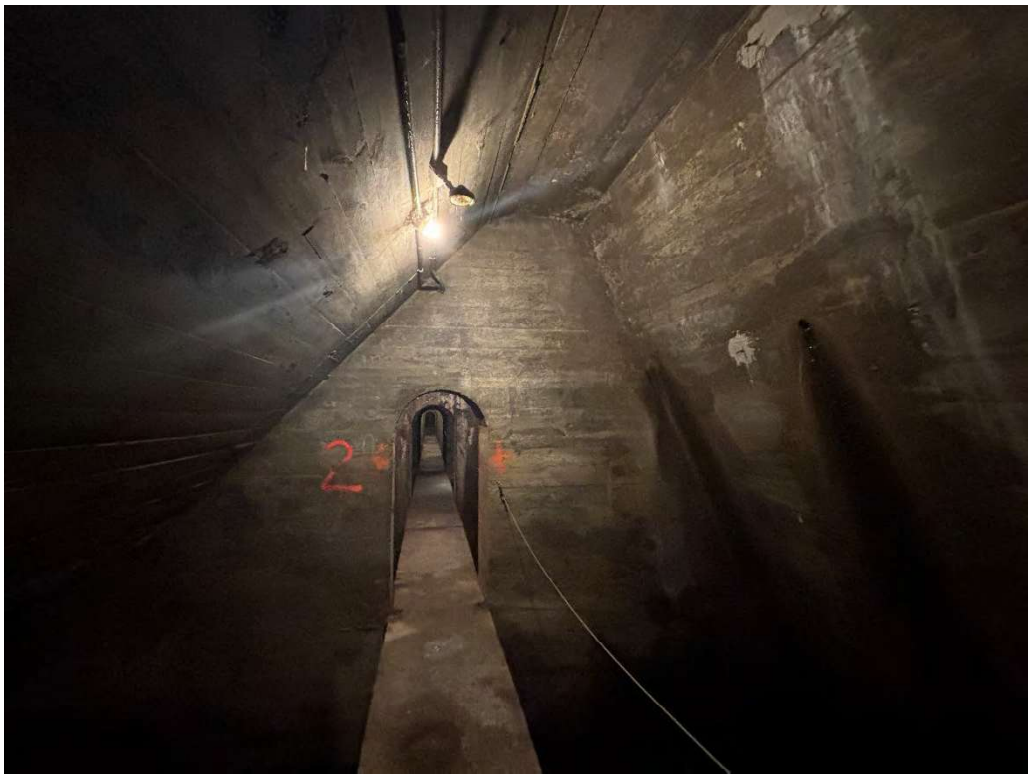


Photo 21: Chamber #2 – Looking West



Photo 22: Chamber #2 – Upstream Wall



Photo 23: Chamber #2 – Downstream Wall

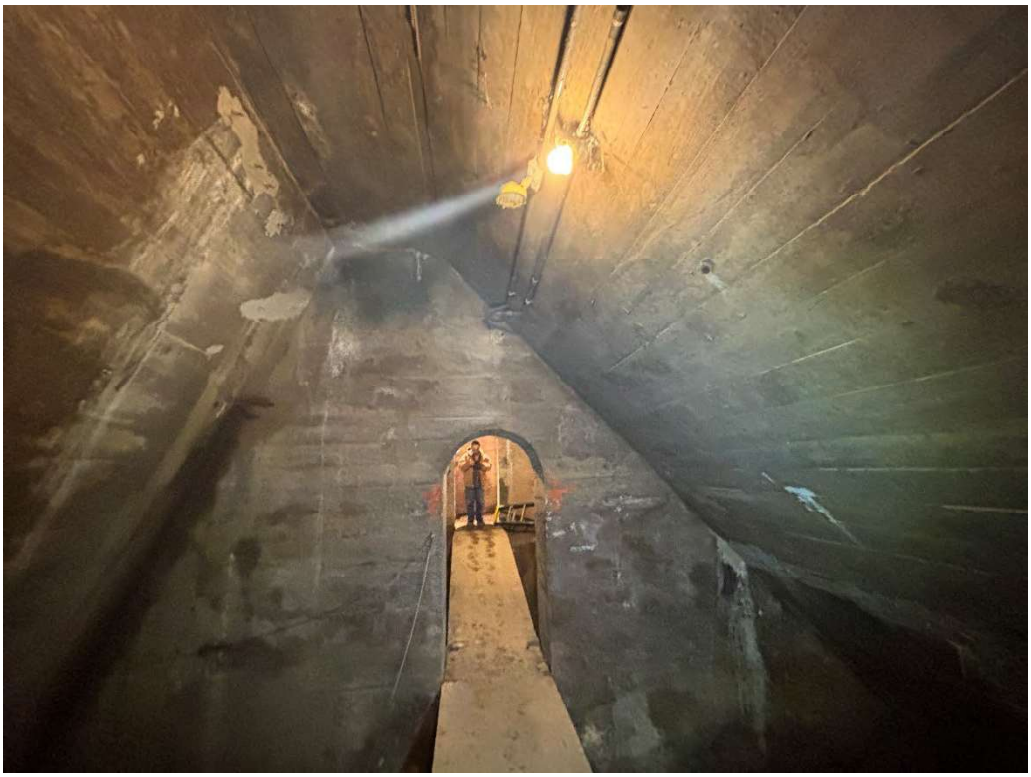


Photo 24: Chamber #2 – Looking East



Photo 25: Chamber #3 – Looking West



Photo 26: Chamber #3 – Upstream Wall



Photo 27: Chamber #3 – Downstream Wall



Photo 28: Chamber #3 – Closeup of Joint

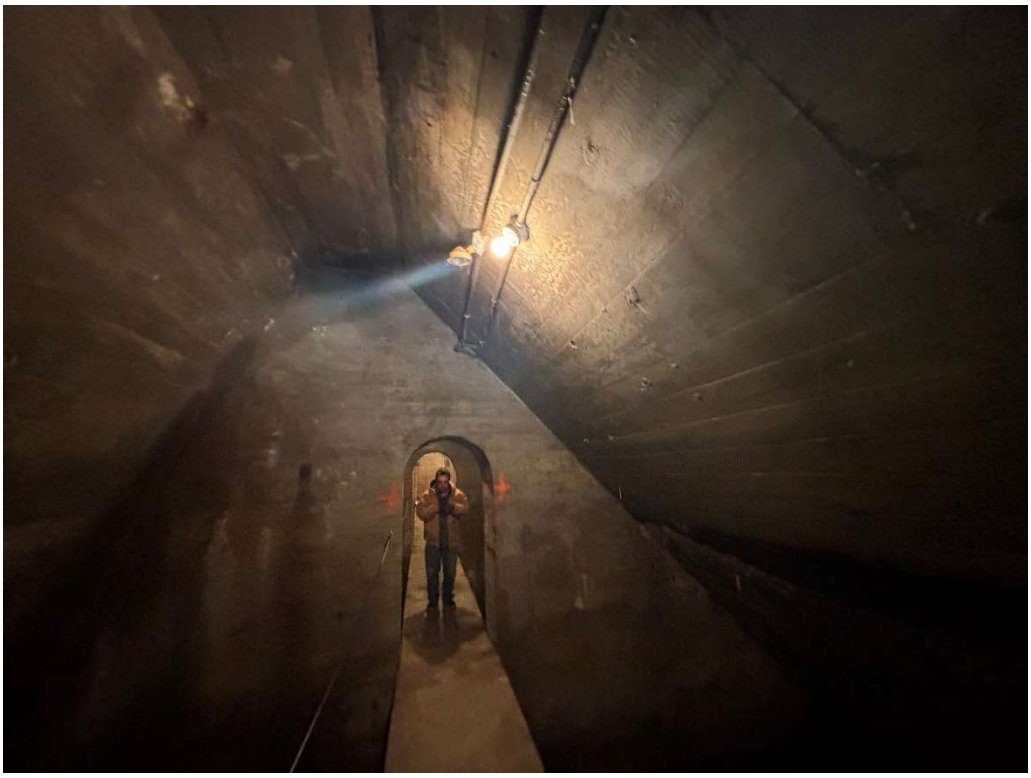


Photo 29: Chamber #3 – Looking East



Photo 30: Chamber #4 – Looking West



Photo 31: Chamber #4 – Upstream Wall



Photo 32: Chamber #4 – Downstream Wall



Photo 33: Chamber #4 – Looking East



Photo 34: Chamber #5 – Looking West



Photo 35: Chamber #5 – Upstream Wall



Photo 36: Chamber #5 – Downstream Wall



Photo 37: Chamber #5 – Looking East – The Lights are Outed



Photo 38: Chamber #6 – Looking West

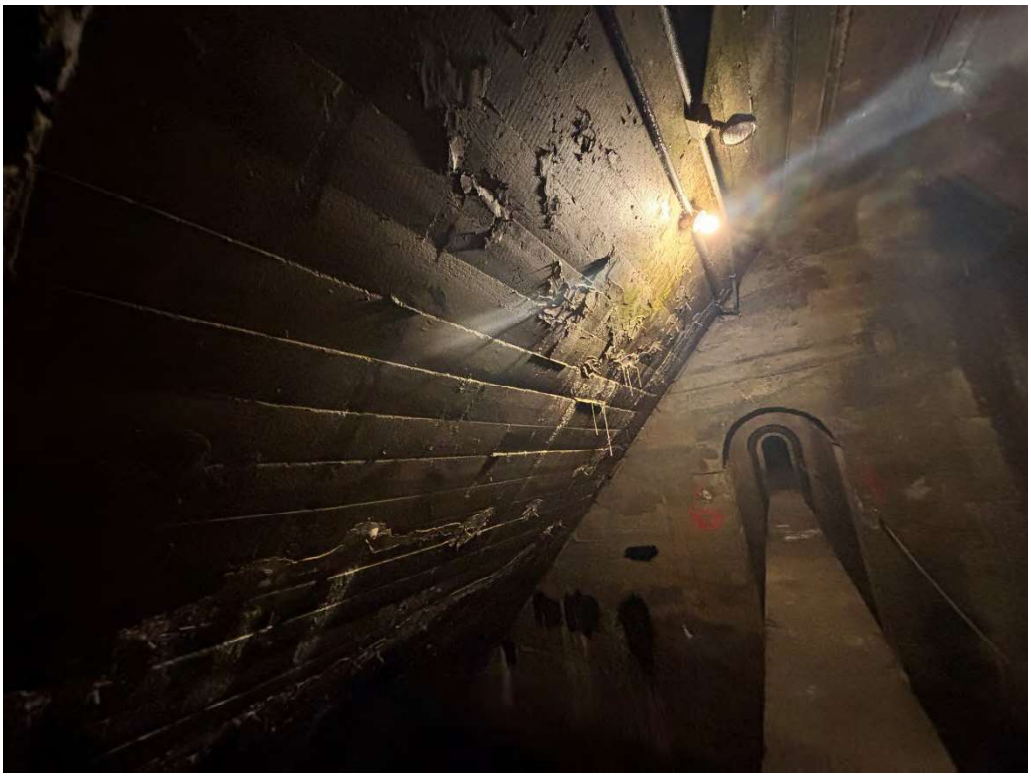


Photo 39: Chamber #6 – Upstream Wall



Photo 40: Chamber #6 – Downstream Wall

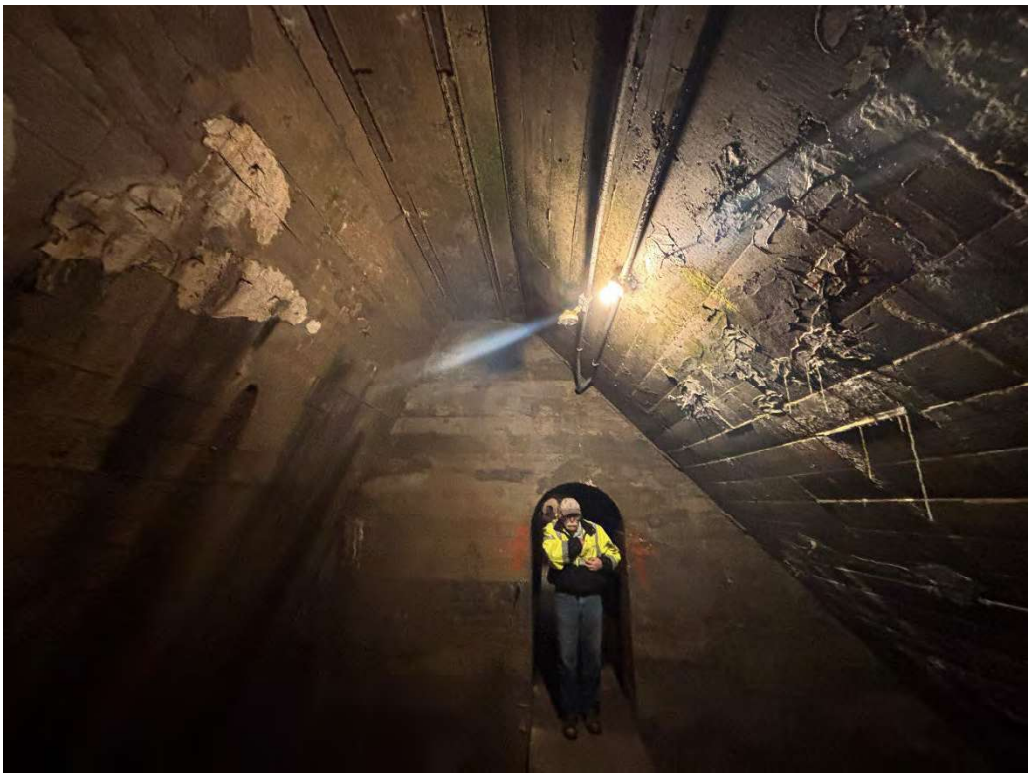


Photo 41: Chamber 6 – Looking East



Photo 42: Chamber #7 – Looking West



Photo 43: Chamber #7 – Upstream Wall



Photo 44: Chamber #7 – Downstream Wall



Photo 45: Chamber #7 – Looking East



Photo 46: Chamber #8 – Looking West



Photo 47: Chamber #8 – Upstream Wall



Photo 48: Chamber #8 – Downstream Wall



Photo 49: Chamber #8 – Looking East



Photo 50: Chamber #9 – Looking West

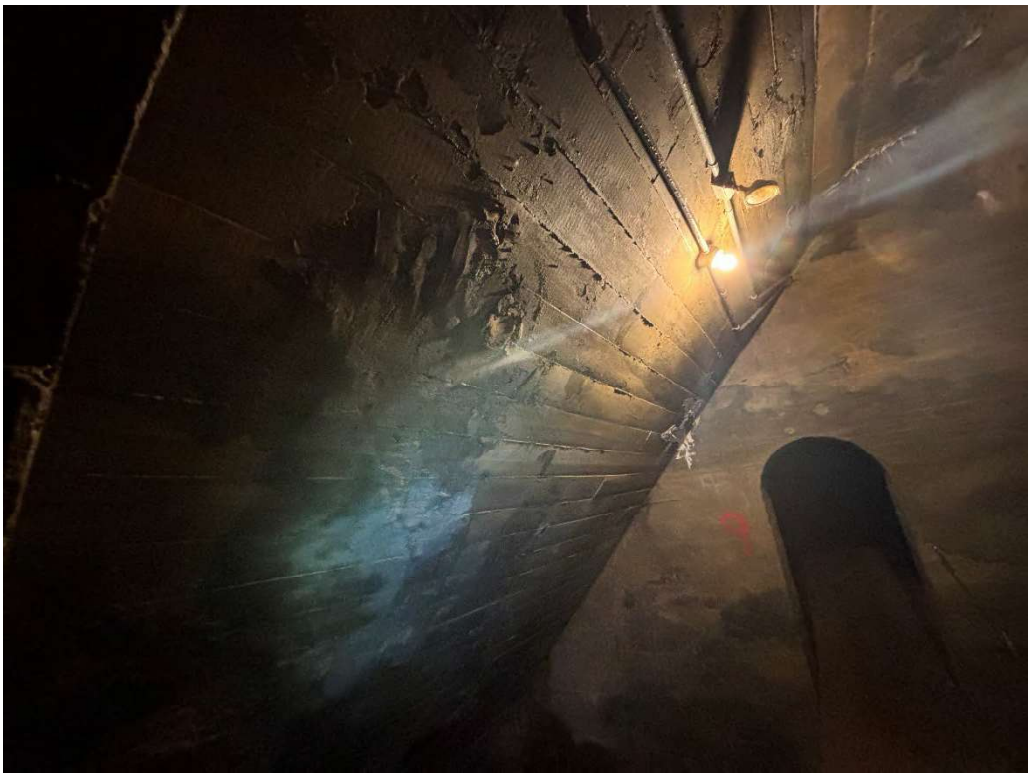


Photo 51: Chamber #9 – Upstream Wall



Photo 52: Chamber #9 – Downstream Wall

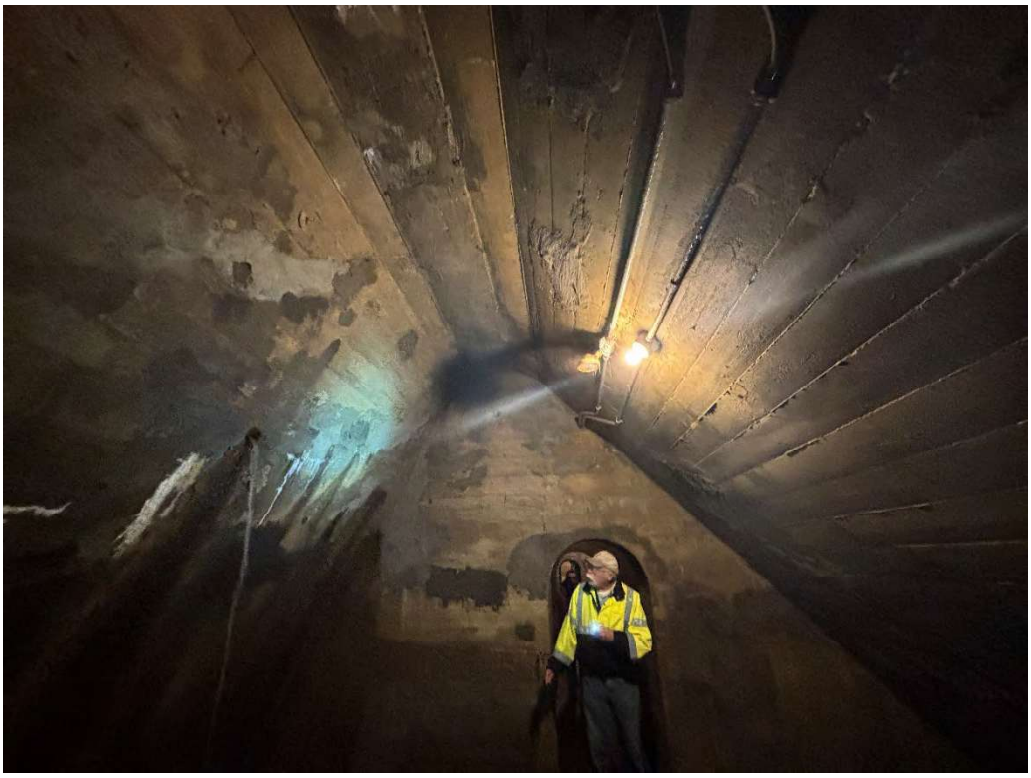


Photo 53: Chamber #9 – Looking East



Photo 54: Chamber #10 – Looking West



Photo 55: Chamber #10 – Upstream Wall



Photo 56: Chamber #10 – Downstream Wall



Photo 57: Chamber #10 – Looking East



Photo 58: Typical Walkway Condition