



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Mike Kehoe
Governor

Kurt U. Schaefer
Director

September 19, 2025

Augusta Shores Homeowners Association
C/O Mr. Lowell Pfenning
P.O. Box 53
Defiance, Missouri 63341

lowellpfenning@gmail.com

RE: Cedar Lake Dam (MO40189) St. Charles County

Dear Mr. Pfenning:

As a result of an inspection of the Cedar Lake Dam on September 10, 2025, I am pleased to inform you that Safety Permit S-141 has been renewed and is enclosed for your use. The term of the permit will be five years from the expiration date of the last safety permit issued for the dam and will expire on October 2, 2030. At that time, the dam will be reinspected by the Dam and Reservoir Safety Program at no cost to you. The permit is being renewed for five years based on the downstream environmental zone classification.

Please refer to the enclosed inspection report and summary for additional information on the inspection. If you have any questions, please feel free to contact Sam Hardy at (573) 368-2175.

Thanks for your cooperation in renewing this permit.

Sincerely,

MISSOURI GEOLOGICAL SURVEY

Ryan P. Stack, P.E.
Chief Engineer
Dam and Reservoir Safety Program

RPS/cjc
enclosures

CC: guymiddleton1961@gmail.com

**STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
DAM AND RESERVOIR SAFETY COUNCIL**

SAFETY PERMIT

Pursuant to Chapters 236.400 through 236.500 of the Revised Statutes of Missouri and the rules established by the Dam and Reservoir Safety Council, and on the basis of an inspection by the Department of Natural Resources for the Cedar Lake Dam, St. Charles County, all of which are made a part hereof by reference, **PERMISSION IS HEREBY GRANTED** to Augusta Shores HOA, hereafter known as the permittee, whose address for the purpose of notices and other communications pertaining to this permit is P.O. Box 53; Defiance, Missouri 63341, which address is subject to change by written notice from the permittee, **TO OPERATE** said dam and reservoir located in Section 5, Township 44 North, Range 2 East, having identification number of MO40189, a dam height of 36 feet, a principal spillway elevation of 90.9 feet (site datum), a minimum crest elevation of 94.4 feet (site datum), a reservoir area of 3.5 acres at the water storage elevation and approximate UTM Coordinates of 4,273,828 meters North and 689,253 meters East, Zone 15, subject to the following provisions:

GENERAL PROVISIONS:

1. No liability shall be imposed upon or incurred by the State of Missouri and/or the Dam and Reservoir Safety Council, or any of their officers, agents, employees, and members, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors, or closed corporations or successors relating to any matter hereunder. This permit shall not be construed as estopping or limiting any legal claim or right of action of the state against the permittee, its agents, employees or contractors for any damages or injury resulting from any such act or omission by them or for violation of or failure to comply with the provisions of the permit or applicable provisions of law.
2. The permittee shall comply with all Federal, State and local laws and regulations, and shall obtain such other permits as may be required.

3. In cases where the doing by the permittee of anything authorized by this permit shall involve the taking, using or damaging of any property rights or interest of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, it is the sole responsibility of the permittee, before proceeding therewith, to obtain the written consent of all persons, agencies, or authorities concerned, and to acquire all property, rights and interests necessary therefore, including flood easements or permissions for all properties which may be inundated by the dam on a temporary or permanent basis in the upstream impoundment area below the top of dam elevation.
4. The permittee shall notify the Dam and Reservoir Safety Council in writing upon the sale or other transfer of interest in the dam or reservoir.
5. Based on conditions existing at the time of issuing this permit, the Downstream Environment Zone is Class III. Future development in the vicinity of the dam and flood plain below the dam may result in a change in classification. This change will necessitate hydraulic and structural upgrading of the dam so the dam is in compliance with the rules and regulations of the Missouri Dam and Reservoir Safety Council. Permittee or its representative, successors or assigns shall perform any such upgrading upon a change in classification and upon notification from the Missouri Dam and Reservoir Safety Council.
6. The permittee shall not alter, enlarge, reduce, repair or remove the dam, reservoir or appurtenances without first obtaining a construction permit from the Dam and Reservoir Safety Council.
7. The permittee shall immediately notify in writing the Chief Engineer of any conditions relating to structural stability of and seepage through the dam discovered during the term of this permit which differs from those conditions identified in the renewal inspection summary.
8. The terms and provisions of this permit shall extend to and bind the successors in authority of the Dam and Reservoir Safety Council and the legally assigned successors in interest of the permittee.
9. Maintenance of the dam and reservoir herein permitted shall be the responsibility of the permittee.
10. The term of this permit shall be five (5) years from the expiration date of the last registration permit issued for the dam and will expire on October 2, 2030. The permittee shall apply for renewal not less than sixty (60) days prior to this expiration date.

Executed at Rolla, Missouri on this 19th day of
September 2025

DAM & RESERVOIR SAFETY COUNCIL

By _____
Chief Engineer
Dam and Reservoir Safety Program



ID #: MO40189	CEDAR LAKE DAM	INSPECTION DATE: September 10, 2025
ST. CHARLES COUNTY	PERMIT NUMBER: S-141	HAZARD CLASS: III
EARTHFILL	INSPECTION TEAM: Scheible/Skinner/Hardy	PLSS: T44NR02ES05

DAM & RESERVOIR SAFETY PROGRAM DAM INSPECTION REPORT

OWNER:	AUGUSTA SHORES HOMEOWNERS ASSOCIATION	
ADDRESS:	C/O LOWELL PFENNING	
	P.O. BOX 53	
CITY/STATE/ZIP:	DEFIANCE, MISSOURI 63341	
TELEPHONE:	636-236-5826	
EMAIL:	lowellpfenning@gmail.com cc guymiddleton1961@gmail.com	
SPILLWAY TYPE(S):	PRINCIPAL	6-foot X 10-foot concrete drop inlet to 48-inch diameter RCP
	AUXILIARY	None

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ENGINEER CERTIFICATION

- ☒ I hereby certify that CEDAR LAKE DAM was inspected in accordance with RSMO 236.400 through RSMO 236.500.
- ☒ I hereby certify that CEDAR LAKE DAM did not have any observed defects that required correction at the time of the inspection.
- ☒ Judgement of Slope Stability – The embankment and appurtenant structures appeared to be in good overall condition at the time of the inspection, with no indications of slope instability or excessive seepage.
- ☐ Defects were found that will have to be corrected prior to the permit being renewed.



INSPECTING ENGINEER
Sam Hardy



INSPECTING ENGINEER
Jerry Scheible, PE
Missouri Engineer, PE-2001018805



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INSPECTION CHECKLIST

Item	Condition	Issue	Comments
1. Upstream face/riprap	NP		
2. Crest	NP		
3. Downstream face	NP		
4. Left groin	NP		
5. Right groin	OR	Erosion	Erosion gullies are forming in the right groin. Repair and/or rock armor may be necessary as erosion progresses into the embankment. Recommend removing the downed tree from the right groin to facilitate vegetation management.
6. Toe of dam	NP	Woody vegetation	Continue efforts to control the woody vegetation from the rocked section to the toe of the dam. It is recommended that the stumps be treated with an appropriate herbicide to prevent re-sprouting.
7. Principal spillway	NP		
8. Principal spillway outlet	OR		Monitor undercutting at principal spillway outlet. Repair and/or placing material may be necessary as erosion progresses.
9. Auxiliary spillway	NA		
10. Auxiliary spillway outlet channel	NA		
11. Embankment drains	NA		
12. Lake drain gates/valves	OR	Unknown Condition	Monitor the pipe and valve for any indication of leaking. Consider hiring qualified personnel to investigate the condition of the pipe and valve.
13. Other	NP		

NP = No observable problem
EC = Emergency Condition

MR = Maintenance Required
OR = Observation Required

DO = Defect Observed
NA = Not Applicable



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SURVEY and FREEBOARD DATA

STATION	ELEVATION (ft.) ¹	COMMENTS
TBM	100.0	Temporary benchmark – manhole right of downstream abutment
PS	90.9	Principal spillway inlet – 6-foot X 10-foot concrete drop inlet to 48-inch diameter RCP
AS	NA	Auxiliary spillway sill
Dam	94.4	Low point on crest of dam
WL	89.9	Water level on day of inspection
Other	NA	NA
Freeboard (ft.)	Available	Required
	3.5	1.3

¹Elevations are based on an assumed, local site datum of 100.0 feet at the temporary benchmark

Equipment used ☒ GPS system ☐ Auto level and rod

INSPECTION PHOTOS



Upstream face



Downstream face



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Principal spillway



Principal spillway inlet



Principal spillway outlet pipe and channel – looking upstream



Principal spillway outlet – note undercutting of concrete



Drawdown valve pit on the downstream face



Erosion and downed tree in the right groin