



Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Division of Water Resources

Rodney J. Tornes, Acting Chief

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October 1, 2018

Patricia Speese
Director of Public Works
City of Shaker Heights
15600 Chagrin Boulevard
Shaker Heights, OH 44120

Carl Czaga
Assistant Public Works Director
City of Cleveland Heights, Ohio
40 Severance Circle
Cleveland Heights, OH 44118

RE: Lower Shaker Lake Dam
File Number: 1314-001
Cuyahoga County

Rec'd 2/20/18
SHPW

Dear Dam Owners:

Thank you for allowing Matthew Hook and Neil Shop of the Division of Water Resources to conduct a safety inspection of Lower Shaker Lake Dam on April 18, 2018. This inspection was conducted by representatives of the Chief of the Division of Water Resources under the provisions of ORC Section 1521.062 to evaluate the condition of the dam and its appurtenances. The Chief has the responsibility to ensure that continued operation and use of the dam does not constitute a hazard to life, health, or property. A copy of the laws and administrative rules for dam safety and other guidelines and resources are available online at water.ohiodnr.gov/safety/dam-safety and by request.

ORC Section 1521.062 requires the Division of Water Resources to inspect each jurisdictional dam once every five years. Division engineers have begun inspecting dams by geographic region to improve inspection efficiency and quality. Although it had not been five years since Lower Shaker Lake Dam had been last inspected, it was inspected on April 18, 2018, to match the periodic inspection schedule for the rest of the dams in your region.

Based on the inspection conducted by the Division of Water Resources on April 18, 2018, inspectors have concluded that the dam remains a Class I dam and is in a condition similar to the condition found during the inspection performed in 2014. A copy of the 2014 periodic inspection report has been enclosed for your review. In addition, documents have been enclosed that detail common maintenance problems and proper maintenance procedures. These common problems include, but are not limited to: improper vegetation on the dam (i.e. trees and brush, crown vetch), rodent damage, erosion and clogged or partially blocked spillways. Please use the enclosed fact sheets to address common maintenance items as they arise. The common maintenance items can be performed by the dam owner or a contractor. Other items, such as those listed under "Engineer Repairs and Investigations" in the enclosed inspection report, require the services of a professional engineer. The required remedial measures listed in the 2014 periodic inspection report remain outstanding, with the following additions and/or deletions:

Additional Required Remedial Measures:

Additional Engineering items. These items must be performed by a licensed professional engineer. Plans, specifications, investigative reports, and other supporting documentation must be submitted to this office for review and approval within 5 years.

- No additional engineering items beyond those listed in the 2014 inspection report.

Additional Owner Maintenance or Monitoring Items: These items may be completed by the dam owner or their contractor.

- Repair the rodent burrows on the embankment. See the "Rodent Control" fact sheet for additional information.

Completed Required Remedial Measures:

- An Emergency Action Plan and an Operation, Maintenance, and Inspection Manual have been received and are under review. Please continue to coordinate with this office until the manuals are approved.

Completing the required remedial measures listed above and those outstanding from the 2014 inspection report, in addition to performing proper maintenance, will improve the safety and overall condition of your dam. Modifications and/or repairs to the dam must be approved by the Chief of the Division of Water Resources. This includes, but is not limited to: installing, replacing, repairing or modifying a spillway pipe, installing or altering the dimensions or alignment of an open channel spillway, raising the embankment crest elevation, raising the normal pool elevation (water level), or installing any pipe through the embankment. In order to obtain approval, a Professional Engineer, licensed in the State of Ohio, must submit plans and specifications to the Division of Water Resources for review. Following approval of the plans and specifications, all repairs must be implemented under the supervision of a registered Ohio Professional Engineer. **Failure to complete the outstanding required remedial measures from the 2014 inspection report and the items listed above may result in legal enforcement of these requirements in the form of an order from the Chief of the Division of Water Resources.**

Please be advised that you may qualify for a reduced-interest loan to make required repairs or develop an EAP through the Dam Safety Loan Program administered by the Ohio Water Development Authority (OWDA). To find out about this program, please contact the OWDA at 614/466-5822.

To gain information that will help improve the inspection program, a short survey has been developed and is enclosed. Please complete the survey and return it in the self-addressed envelope provided. Your feedback is important.

Your cooperation in improving the safety and overall condition of your dam is appreciated. Please contact Matthew Hook at 614/265-6788 if you have any questions regarding this letter, previous inspection reports, repairs, proper maintenance or any other dam safety related concern.

Lower Shaker Lake Dam

October 1, 2018

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Sincerely,



Mia P. Kannik, P.E.

Program Manager

Dam Safety Program

Division of Water Resources

MPK:mjh

cc/enc: Rachid Zoghaib, Commissioner, City of Cleveland, Dept. of Water Pollution Control

David Weiss, Mayor, City of Shaker Heights

Carol Roe, Mayor, City of Cleveland Heights

Frank Jackson, Mayor, City of Cleveland

Matthew Hook, Division of Water Resources

Enclosures

