

Operation, Maintenance and Response Information

Completed on: 3/18/15

For information or questions, please contact the dam owner using the information below or the NH Dept. of Environmental Services at (603) 271-3406.

1. Dam and Owner/Operator Information

Dam Name Macallen Dam NH Dam Inventory # & Hazard Classification D177001 High
 City/Town Newmarket, NH Downstream Watercourse Lamprey River

Dam Owner

Name Town of Newmarket
 Address 4 Young Lane

Emergency Contact (Dam incidents or flooding)

Name Rick Malasky
 Address 4 Young Lane

City/Town/Zip Newmarket, NH 03857

Telephone 603 659 3093 Cell _____

E-mail sfouriner@newmarketnh.gov

City/Town/Zip Newmarket, NH 03857

Telephone 603 659 3093 Cell 603 765 1106

E-mail rmalasky@newmarketnh.gov

2. Dam Information

Height (ft.) 27 Length (ft.) 150 Pond Size (ac.) 120

Normal Storage Capacity (ac.-ft.) 1740 Drainage Area (sq. mi.) 211

Outlet Works – Describe the dam's discharge features, and then include specific information on each below (sizes, dimensions, invert, etc.) 1-68 foot long spillway with 6 feet of freeboard. Three electrically powered double stem waste gates.

Spillway(s) 1-68 feet long

Other Fish ladder on right abutment

Gate(s) 3- 7' X 7'

Other _____

Stoplog Bay(s) 3 On upstream face of all gates

Other _____

Description of the Area Downstream of the Dam (Include information on such things as roadways, dams, bridges or property that may be in danger of flooding due to high water events, dam failure or dam operations and, if known, the flow rates at which areas begin to be impacted. Also include information on any minimum flow needs downstream.) No water levels would rise above the first floor elevation of a habitable residential structure or a commercial or industrial structure. No roads or bridges would be impacted. There is one small marina and one town dock within 1000 feet of the downstream dam.

3. Operations and Maintenance Information

Normal Reservoir Management Procedures (How is the impoundment level managed throughout the course of a calendar year? How do you achieve this?)

Summer 3 waste gates in the closed position

Fall 3 Waste gates typically in the closed position. Sometimes one or two opened in October and November. Depends on the amount of precipitation received.

Winter 3 Waste gates in the closed position.

Spring 3 Waste gates in the open position April and May.

Normal Maintenance and Monitoring Procedures (What types of and at what frequency is routine maintenance and monitoring performed at the dam?) The Public Works Department employees complete all preventive maintenance and repairs to the dam when necessary. These duties include checking and changing hydraulic fluids and filters annually. Greasing all fittings and moving parts. Removing any debris from the spillway/waste gates and keeping the gates operational throughout the winter months by clearing and removing ice/snow from the waste gates.

4. Incident Management and Response Information

Flood or Dam Incident Response Procedures (Describe the procedures employed to manage the dam in times of stress. Monitoring frequencies, operational protocols, and notification of local emergency response officials and affected downstream parties should be explained. Include the names and contact information of key parties and officials, including the local emergency management director, fire/police departments and downstream parties who might be impacted by the flood or dam incident. A cohesive communications plan is important and should result in a product that allows the timely exchange of accurate information.) The Public Works Department and Newmarket Fire/Rescue Monitor the dam during flood events. This is done visually and with the use of the USGS web site Real-Time Data for the Lamprey River at location 10073500. The Durham Book Exchange building requires sandbagging when the river discharge reaches 7,000cfs. A light tower is set up for night observations and the Fire Department mans and monitors the dam 24 hours a day once the river rise above flood stage, which is 8 feet; this observation continues until the river goes back below flood stage.

Contact:

Name Newmarket Fire/Rescue
Address 4 Young Lane

City/Town/Zip Newmarket, NH 03857

Telephone 603 659 3334 Cell _____

E-mail _____

Contact:

Name Newmarket Dispatch Center

Address 70 Exeter Road

City/Town/Zip Newmarket, NH 03857

Telephone 603 659 6636 Cell _____

E-mail _____

Contact:

Name Candy Jarosz (Newmarket EMD)
Address 3 Riverbend Road

City/Town/Zip Newmarket, NH 03857

Telephone 603 659 2553 Cell _____

E-mail cjarosz@perkinsagency.com

Contact:

Name NH Dept. of Homeland Security

Address 110 Smokey Bear Boulevard

City/Town/Zip Concord, NH 03305

Telephone 603 271 2231 Cell _____

E-mail _____

Please correct any of the information in BOLD text in sections 1 and 2 on page 1.

Please use the reverse side of this sheet to include additional contacts or information that relates to the operation, maintenance or emergency response for this dam that you believe is important for response officials or abutters to know. (DES 01/25/2007)