

# APPENDIX A

- A-1 Petition Requesting Lake Level Investigation on Newfound Lake
- A-2 Newfound Lake Dam historic photos
- A-3 Newfound Lake Dam Data
- A-4 Newfound Lake Dam Operations & Maintenance Data
- A-5 Newfound Lake overview images



Ecosystem Management Consultants, LLC  
c/o Rick Van de Poll, Ph.D.  
30 No. Sandwich Rd.  
Center Sandwich, NH 03227

April 30, 2018

DES DAM BUREAU

Jim Gallagher, P.E., Director  
NH DES Dam Bureau  
29 Hazen Drive  
Concord, NH 03301

MAY 01 2018

RECEIVED

Dear Jim;

Enclosed please find the aforementioned petition to the NH Department of Environmental Services Dam Bureau relative to a request for said bureau to investigate its lake level management policy and the apparent connection to significant shorefront erosion at Newfound Lake. This petition is being submitted according to the requirements of RSA 482:4, Investigation of High and Low Levels, and RSA 482:79, Investigation of Levels of Inland Waters.

The 17 pages of signatures represent 30 signatories and 20 separate shorefront property owners. This amount exceeds to the minimum of ten petitioners as required by law. Please note that the Town of Hebron, the NH Audubon Society, and the Newfound Lake Region Association are organizational shorefront owners while the remaining 17 property owners are private.

There are a few other shorefront owners who intend to attach their signatures to this petition but for various reasons were not able to do so by the date of this submittal. This includes the Town of Bristol, whose Town Manager has assured me he will get the required signature this Thursday at the next Select Board meeting.

In closing, since many of us have been watching the dramatic increase in erosion along our shorelines at Newfound over the past several years, we are committed to working with the state in order to better understand and resolve this pervasive problem through appropriate lake level management. We look forward to attending hearings and fully participating in whatever way we can to effect a timely resolution.

In advance, we thank you for your time and cooperation.

Sincerely;

Rick Van de Poll, Ph.D., for the 'Concerned Citizens of Newfound'

cc. Douglas McLane

## PETITION

### TO THE STATE OF NEW HAMPSHIRE DAM BUREAU

#### Relative to RSA 482:4 Investigation of High and Low Levels

*"The department is authorized to make such investigations as, in its opinion, the public good requires with respect to high or low water levels in the inland public waters of the state and the rights, instrumentalities and practices which affect and control such levels with a view to the exercise of control, in a manner consistent with public and private rights and interests, as will best promote the public health and safety and the enjoyment and value of public waters."*

**And**

#### RSA 482:79 Investigation of Levels of Inland Waters

*"The department may, upon its own motion or at the request of the attorney general or upon complaint of not less than 10 owners of property on any inland public water in the state, make a preliminary investigation of conditions affecting the use and enjoyment of any such public water whenever it shall be of the opinion that such investigation would be in the public interest."*

**Whereas**, Newfound Lake is a 4106-acre dimictic, oligotrophic lake located in Alexandria, Bridgewater, Bristol, and Hebron, New Hampshire; and

**Whereas**, Newfound Lake is the fifth largest lake in the state with depths of up to 182 feet at mean high water; and

**Whereas**, Newfound Lake lies near the base of the 63,150-acre HUC10 Newfound River watershed (HUC ID 0107000106); and

**Whereas**, Newfound Lake receives much of its surface water run-off from over 250 miles of perennial streams, including the fourth order Fowler River and Cockermouth River; and

**Whereas**, the Newfound Lake watershed is comprised of steep (i.e. > 8% average) slopes that create flashy stormwater run-off events; and

**Whereas**, the Newfound Lake watershed supports over 4800 permanent residents and more than 25,000 seasonal residents and visitors each year; and

**Whereas**, there are over 1820 shorefront lots with year-round and seasonal residents that are directly affected by lake level management; and

**Whereas**, there are over 115 businesses in the Newfound Region that produce an annual revenue of over 12.5 million dollars; and

**Whereas**, beginning in the mid-1800's the level of Newfound lake has been altered by the creation and enhancement of dams, inclusive of timber dams for much of its first 100 years, and subsequent pier-on-slab enhancements in 1975 and 1986; and

**Whereas**, the Newfound Lake dam currently supports three 6-foot x 6-foot floodgates and stoplog bays on its left side and eight stoplog bays on its right side looking downstream; and

**Whereas**, there were several owners of water rights up until 1936, whereupon it was consolidated under the ownership of Public Service of New Hampshire until 1974, whereupon it was transferred to the New Hampshire Water Resources Board (NHDES), which retains such rights to the present day; and

**Whereas**, the Natural Mean High Water (MHW) of Newfound Lake is 584.12 feet, or 2.24 feet on the current gauge; and

**Whereas**, the waters of Newfound Lake up to the elevation of MHW is held in trust by the state of New Hampshire; and

**Whereas**, NHDES retains flowage rights up to 7.24 feet on the gauge; and

**Whereas**, after a public hearing in 1974 whereupon a noted drop in summer-time lake levels resulted in setting a lake level management standard of 7.2 feet on the gauge by June 1<sup>st</sup>, 5.0 feet on the gauge by Labor Day, and 2.5 feet on the gauge by Columbus Day, which was held until spring; and

**Whereas**, this management level was modified in 1977 to 6.0 feet on the gauge by July 1<sup>st</sup>, 5.0 feet by Labor Day, and 3.5 feet by Columbus Day to be held until spring; and

**Whereas**, this was modified again in 1982 to increase fall and winter levels that called for 4.5 feet by Columbus Day, with a gradual drop to 3.5 feet by spring; and

**Whereas**, mean lake levels from 1982-2006 as illustrated by NHDES have been an average of .5 to 1.0 feet above the 1982 standards as set by the NH Dam Bureau; and

**Whereas**, increased annual precipitation events, notably in the fall, have been recorded nearly every year in the Lakes Region since 2005; and

**Whereas**, such events have caused an increase in lake levels every fall of between .2 feet and 1.4 feet for extended periods of time; and

**Whereas**, such levels have been recorded *in addition to* the two-foot rise in fall lake levels established in 1982; and

**Whereas**, it is suspected that these lake level increases during the ice-free periods have resulted in extensive beach erosion around the lake; and

PETITION

TO THE STATE OF NEW HAMPSHIRE DAM BUREAU

Relative to RSA 482:4 Investigation of High and Low Levels

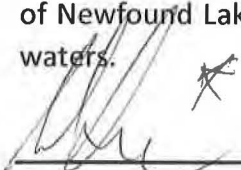
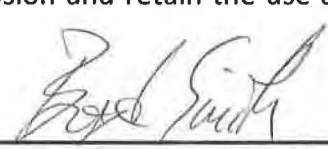
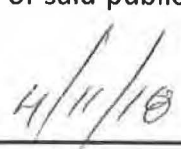
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And

RSA 482:79 Investigation of Levels of Inland Waters

"The department may, upon its own motion or at the request of the attorney general or upon complaint of not less than 10 owners of property on any inland public water in the state, make a preliminary investigation of conditions affecting the use and enjoyment of any such public water whenever it shall be of the opinion that such investigation would be in the public interest."

We, the undersigned landowners on the shores of Newfound Lake, do hereby formally petition the NH Department of Environmental Services Dam Bureau to conduct a thorough investigation of such erosion concerns in order to protect the use and enjoyment of Newfound Lake, and to take such actions as are necessary relative to the management of the water levels of Newfound Lake to prevent further erosion and retain the use and enjoyment of said public waters.

		
Landowner (signature)	Landowner (printed)	Date
Grey Rocks Conservation Area,	Hebron NH	03291
Physical Address on Newfound Lake	Town	State Zip
NHRA 10 N. Main St. Unit 1 Bristol,	NH	03222
Mailing Address (if different)	Town	State Zip
Executive Director,	Newfound Lk. Region Assoc.	

**PETITION**

**TO THE STATE OF NEW HAMPSHIRE DAM BUREAU**

**Relative to RSA 482:4 Investigation of High and Low Levels**

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Joseph A Bechtel                      Douglas A Bechtel                      4/20/18  
Landowner (signature)                      Landowner (printed)                      Date

NH Audubon 290 N. Shore Rd. Hebron                      NH                      03241  
Physical Address on Newfound Lake                      Town                      State                      Zip

NH Audubon 84 Silk Farm Rd. Concord                      NH                      03301  
Mailing Address (if different)                      Town                      State                      Zip

Gary L. Frost      GARY L. FROST      4/14/18  
Landowner (signature)      Landowner (printed)      Date

111 GREENWOOD PATH #11      BRISTOL      NH      03222  
Physical Address on Newfound Lake      Town      State      Zip

PO Box 504      BRISTOL      NH      03222  
Mailing Address (if different)      Town      State      Zip

[Signature]      DORIS H. BALON-FROST      4/14/18  
Landowner (signature)      Landowner (printed)      Date

111 GREENWOOD PATH #11      BRISTOL      NH      03222  
Physical Address on Newfound Lake      Town      State      Zip

PO Box 504      BRISTOL      NH      03222  
Mailing Address (if different)      Town      State      Zip

\_\_\_\_\_  
Landowner (signature)      Landowner (printed)      Date

\_\_\_\_\_  
Physical Address on Newfound Lake      Town      State      Zip

\_\_\_\_\_  
Mailing Address (if different)      Town      State      Zip

\_\_\_\_\_  
Landowner (signature)      Landowner (printed)      Date

\_\_\_\_\_  
Physical Address on Newfound Lake      Town      State      Zip

\_\_\_\_\_  
Mailing Address (if different)      Town      State      Zip

Robert Pearson      Robert Pearson      4/15/18  
Landowner (signature)      Landowner (printed)      Date

111 Greenwood Path Unit 3 Bristol, NH 03222  
Physical Address on Newfound Lake      Town      State      Zip

43 Roy St      Nashua, NH      03060  
Mailing Address (if different)      Town      State      Zip

Laura Pearson      Laura Pearson      4/15/18  
Landowner (signature)      Landowner (printed)      Date

111 Greenwood Path Unit 3 Bristol, NH 03222  
Physical Address on Newfound Lake      Town      State      Zip

43 Roy St      Nashua, NH      03060  
Mailing Address (if different)      Town      State      Zip

\_\_\_\_\_  
Landowner (signature)      Landowner (printed)      Date

\_\_\_\_\_  
Physical Address on Newfound Lake      Town      State      Zip

\_\_\_\_\_  
Mailing Address (if different)      Town      State      Zip

\_\_\_\_\_  
Landowner (signature)      Landowner (printed)      Date


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Physical Address on Newfound Lake      Town      State      Zip

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Mailing Address (if different)      Town      State      Zip



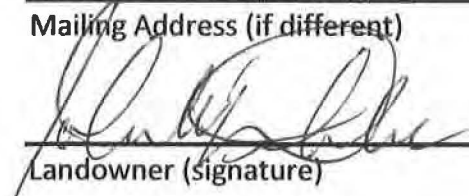
Whereas, such beach erosion has been recorded as a significant concern among shorefront owners due to the loss of property, the need for additional erosion control structures, the loss of public beachfront, the increase in aquatic vegetation at the mouths of all major inflow rivers, and the shift in aquatic habitats that support cold and warmwater fisheries, loons, migratory waterfowl and other wildlife;

We, the undersigned landowners on the shores of Newfound Lake, do hereby formally petition the NH Department of Environmental Services Dam Bureau to conduct a thorough investigation of such erosion concerns in order to protect the use and enjoyment of Newfound Lake, and to take such actions as are necessary relative to the management of the water levels of Newfound Lake to prevent further erosion and retain the use and enjoyment of said public waters.

	Eleanor D. Loncke	4-15-2018
Landowner (signature)	Landowner (printed)	Date

5 Vista Drive	Hebron	NH	03241
Physical Address on Newfound Lake	Town	State	Zip

<i>same</i>			
Mailing Address (if different)	Town	State	Zip

	John W. Dunklee	4/19/2018	
Landowner (signature)	Landowner (printed)	Date	
23 Hemlock Lane	Hebron	NH	03241-7411
Physical Address on Newfound Lake	Town	State	Zip

17 Hemlock Lane	Hebron	NH	03241
Mailing Address (if different)	Town	State	Zip

	TOWN OF HEBRON	4/19/18
Landowner (signature)	Landowner (printed)	Date

Lake Shore Drive	Hebron	NH	03241
Physical Address on Newfound Lake	Town	State	Zip

PO Box 188	Hebron	NH	03241
Mailing Address (if different)	Town	State	Zip

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<u>Bruce Curtis-McLane</u>	<u>Bruce Curtis-McLane</u>	<u>4/16/2018</u>
Landowner (signature)	Landowner (printed)	Date

<u>62 Lakeshore Drive</u>	<u>Hebron</u>	<u>NH</u>	<u>03241</u>
Physical Address on Newfound Lake	Town	State	Zip

<u>PO Box 203</u>	<u>Jackson</u>	<u>NH</u>	<u>03846</u>
Mailing Address (if different)	Town	State	Zip

<u>Kate Curtis-McLane</u>	<u>Kate Curtis-McLane</u>	<u>4/16/2018</u>
Landowner (signature)	Landowner (printed)	Date

<u>35 Lakeshore Dr.</u>	<u>Hebron</u>	<u>NH</u>	<u>03241</u>
Physical Address on Newfound Lake	Town	State	Zip

<u>PO Box 203</u>	<u>Jackson</u>	<u>NH</u>	<u>03846</u>
Mailing Address (if different)	Town	State	Zip

_____	_____	_____
Landowner (signature)	Landowner (printed)	Date

_____	_____	_____	_____
Physical Address on Newfound Lake	Town	State	Zip

_____	_____	_____	_____
Mailing Address (if different)	Town	State	Zip

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<u>James D Koch</u>	James Koch	4/16/2018
Landowner (signature)	Landowner (printed)	Date

<u>29 Shore Drive N.</u>	Bridgewater	N.H.	03222
Physical Address on Newfound Lake	Town	State	Zip

<u>101 Parker Rd.</u>	Wellesley	Ma.	02482
Mailing Address (if different)	Town	State	Zip

<u>Catherine Koch</u>	Catherine Koch	4/16/18
Landowner (signature)	Landowner (printed)	Date

<u>29 shore Dr N</u>	Bridgewater	NH	03222
Physical Address on Newfound Lake	Town	State	Zip

<u>101 Parker Rd</u>	Wellesley	MA	02482
Mailing Address (if different)	Town	State	Zip

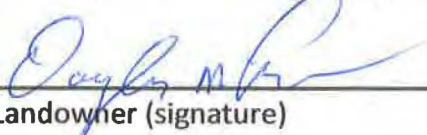
<u>Joseph R Wilkas</u>	JOSEPH R. WILKAS	
Landowner (signature)	Landowner (printed)	Date

<u>46 SHORE DR SOUTH</u>	BRIDGEWATER	NH	03222
Physical Address on Newfound Lake	Town	State	Zip

Mailing Address (if different)	Town	State	Zip

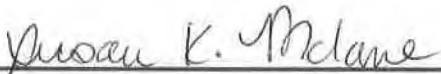
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 DOUGLAS MCLANE APRIL 16, 2018  
 Landowner (signature) Landowner (printed) Date

62 LAKE SHORE DR HEBRON N.H. 03241  
 Physical Address on Newfound Lake Town State Zip

6 ROGERS ST PLYMOUTH N.H. 03264  
 Mailing Address (if different) Town State Zip

 Susan K. McLane 4/18/2018  
 Landowner (signature) Landowner (printed) Date

35 Lake Shore Dr Hebron NH 03241  
 Physical Address on Newfound Lake Town State Zip

6 Rogers St Plymouth NH 03264  
 Mailing Address (if different) Town State Zip

\_\_\_\_\_  
 Landowner (signature) Landowner (printed) Date

\_\_\_\_\_  
 Physical Address on Newfound Lake Town State Zip

\_\_\_\_\_  
 Mailing Address (if different) Town State Zip

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*Robert C. Laux*      Robert C. Laux      4/17/18  
Landowner (signature)      Landowner (printed)      Date

*13 Sanborn Drive*      Hebron      NH      03241  
Physical Address on Newfound Lake      Town      State      Zip

\_\_\_\_\_  
Mailing Address (if different)      Town      State      Zip

\_\_\_\_\_  
Landowner (signature)      Landowner (printed)      Date

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Physical Address on Newfound Lake      Town      State      Zip

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Mailing Address (if different)      Town      State      Zip

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Landowner (signature)      Landowner (printed)      Date

\_\_\_\_\_  
Physical Address on Newfound Lake      Town      State      Zip

\_\_\_\_\_  
Mailing Address (if different)      Town      State      Zip

**Gary Frost**

To Tammy Stang, Pam & Michael Thayer

1 attachment View Open in browser Download

PETITION - Draft 4-10-18.docx (24.3 KB)

**Details**

Name	PETITION - Draft 4-10-18.docx	11:11 AM
Size	24 KB	
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	MICHAEL THAYER	

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<i>Michael F. Thayer</i>	<i>Michael F. Thayer</i>	<i>4/17/18</i>
Landowner (signature)	Landowner (printed)	Date

<i>111 Greenwood Path unit 8</i>	<i>Bristol</i>	<i>NH</i>	<i>03222</i>
Physical Address on Newfound Lake	Town	State	Zip

<i>10 LESTER R GRAY DRIVE, ATTLEBORO</i>	<i>MA</i>	<i>02703</i>
Mailing Address (if different)	Town	State

<i>Pamela Thayer</i>	<i>PAMELA THAYER</i>	<i>4/17/18</i>
Landowner (signature)	Landowner (printed)	Date

<i>111 GREENWOOD PATH UNIT 8, BRISTOL</i>	<i>NH</i>	<i>03222</i>
Physical Address on Newfound Lake	Town	State

<i>10 LESTER R GRAY DRIVE, ATTLEBORO, MA</i>	<i>02703</i>
Mailing Address (if different)	State

Landowner (signature)	Landowner (printed)	Date
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Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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*Francis J. DiPietro*

FRANCIS J. DIPIETRO

4/18/2018

Landowner (signature)

Landowner (printed)

Date

111 GREENWOOD PATH #14

BRISTOL

NH

03222

Physical Address on Newfound Lake

Town

State

Zip

P.O. Box 631

BRISTOL

NH

03222

Mailing Address (if different)

Town

State

Zip

Landowner (signature)

Landowner (printed)

Date

Physical Address on Newfound Lake

Town

State

Zip

Mailing Address (if different)

Town

State

Zip

Landowner (signature)

Landowner (printed)

Date

Physical Address on Newfound Lake

Town

State

Zip

Mailing Address (if different)

Town

State

Zip

Landowner (signature)

Landowner (printed)

Date

Physical Address on Newfound Lake

Town

State

Zip

Mailing Address (if different)

Town

State

Zip

*M. Heenan*

Michael Heenan

4/18/2018

Landowner (signature) Landowner (printed) Date

111 Greenwood Path #12

Bristol, NH 03222

Physical Address on Newfound Lake Town State Zip

4800 Dover St. NE

St. Petersburg, FL 33703

Mailing Address (if different) Town State Zip

Landowner (signature) Landowner (printed) Date

Physical Address on Newfound Lake Town State Zip

Mailing Address (if different) Town State Zip

Landowner (signature) Landowner (printed) Date

Physical Address on Newfound Lake Town State Zip

Mailing Address (if different) Town State Zip

Landowner (signature) Landowner (printed) Date

Physical Address on Newfound Lake Town State Zip

Mailing Address (if different) Town State Zip



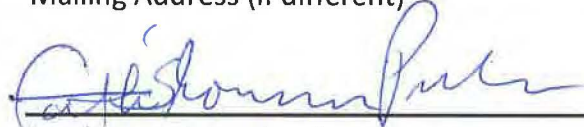
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	Catherine H Parker	4/18/18
Landowner (signature)	Landowner (printed)	Date

111 Greenwood Path Unit #10	Bristol	NH	03222
Physical Address on Newfound Lake	Town	State	Zip

3 Erin Dr.	Bow	NH	03304
Mailing Address (if different)	Town	State	Zip

	Thompson G Parker	4/18/18
Landowner (signature)	Landowner (printed)	Date

111 Greenwood Path Unit #10	Bristol	NH	03222
Physical Address on Newfound Lake	Town	State	Zip

3 Erin Drive	Bow	NH	03304
Mailing Address (if different)	Town	State	Zip

Landowner (signature)	Landowner (printed)	Date
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Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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MBM Matthew B. Moreau April 19, 2018  
Landowner (signature) Landowner (printed) Date

111 Greenwood Path, Unit 7 Bristol NH 03222  
Physical Address on Newfound Lake Town State Zip

21 Bretts Farm Road Norfolk MA 02056  
Mailing Address (if different) Town State Zip

RSM Rebecca S. Moreau April 19, 2018  
Landowner (signature) Landowner (printed) Date

111 Greenwood Path, Unit 7 Bristol NH 03222  
Physical Address on Newfound Lake Town State Zip

21 Bretts Farm Road Norfolk MA 02056  
Mailing Address (if different) Town State Zip

\_\_\_\_\_  
Landowner (signature) Landowner (printed) Date

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Physical Address on Newfound Lake Town State Zip

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Mailing Address (if different) Town State Zip

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Landowner (signature) Landowner (printed) Date

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Physical Address on Newfound Lake Town State Zip

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Mailing Address (if different) Town State Zip

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<u>P B Rotch</u>	<u>Peter B. Rotch</u>	<u>4/18/2018</u>
Landowner (signature)	Landowner (printed)	Date

<u>49 Lakeshore Drive</u>	<u>Hebron</u>	<u>NH</u>	
Physical Address on Newfound Lake	Town	State	Zip

<u>50 Timberland Dr, Apt 3306, Peterborough</u>	<u>NH</u>	<u>03458</u>
Mailing Address (if different)	Town	State

<u>Rou Collin</u>	<u>Rou Collin</u>	
Landowner (signature)	Landowner (printed)	Date

<u>142 S. Mayhew Tpke</u>	<u>Hebron</u>	<u>NH</u>	<u>03241</u>
Physical Address on Newfound Lake	Town	State	Zip

<u>Same</u>			
Mailing Address (if different)	Town	State	Zip

<u>Janice Collins</u>	<u>JANICE COLLINS</u>	<u>4/25/18</u>
Landowner (signature)	Landowner (printed)	Date

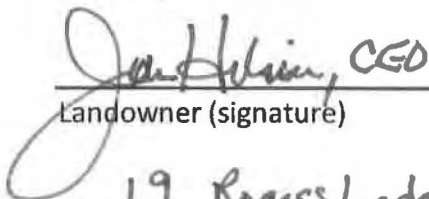
<u>162 South Mayhew Tpke</u>	<u>Hebron</u>	<u>NH</u>	<u>03241</u>
Physical Address on Newfound Lake	Town	State	Zip

<u>Same</u>			
Mailing Address (if different)	Town	State	Zip

Landowner (signature)	Landowner (printed)	Date
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	Hilson Holdings, LLC	4/20/18
Landowner (signature)	Landowner (printed)	Date
19 Rogers Hedge Dr.	Hebron	NH 03241
Physical Address on Newfound Lake	Town	State Zip
P.O. Box 122	Hebron	NH 03241
Mailing Address (if different)	Town	State Zip

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Landowner (signature)	Landowner (printed)	Date
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Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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Landowner (signature)	Landowner (printed)	Date
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Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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<i>Raymond P Noel</i>	RAYMOND P NOEL	APRIL 23/18
<i>Helen C Hamecak Noel</i>	Helen C Hamecak Noel	APRIL 23, 2018
Landowner (signature)	Landowner (printed)	Date

<i>111 Greenwood Path Unit #4, BRISTOL</i>	BRISTOL	NH	03222
Physical Address on Newfound Lake	Town	State	Zip

<i>5 Winding Brook Ln, Wallingford CT</i>	WALLINGFORD	CT	06492
Mailing Address (if different)	Town	State	Zip

Landowner (signature)	Landowner (printed)	Date
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Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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Landowner (signature)	Landowner (printed)	Date
-----------------------	---------------------	------

Physical Address on Newfound Lake	Town	State	Zip
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Mailing Address (if different)	Town	State	Zip
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Landowner (signature)	Landowner (printed)	Date
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**Certificate of Service**

I, Rick Van de Poll, Agent for Landowner Douglas McLane, hereby certify that on this 30<sup>th</sup> day of April, 2018, a copy of the foregoing was served via certified mail to James W. Gallagher, Jr., P.E., Chief Engineer, NH Department of Environmental Services, Dam Bureau, PO Box 95, 29 Hazen Drive, Concord, NH 03302-0095.

Rick Van de Poll, CWS #110

Rick Van de Poll

*David M. Miller* David M Miller 6/29/18  
Landowner (signature) Landowner (printed) Date

38 Old Club House Ln Bridgewater NH 02333  
Physical Address on Newfound Lake Town State Zip

*Nancy Sullivan*  
Mailing Address (if different) Town State Zip

*Kieran Murphy* 72 02320 6/18/18  
Bridgewater  
Old Club House Lane  
Kieran Murphy N.H.  
Landowner (signature) Landowner (printed) Date

Physical Address on Newfound Lake Town State Zip

Mailing Address (if different) Town State Zip

*Henry Wolcott* - Selectman Bridgewater  
Landowner (signature) Landowner (printed) Date

*Henry Wolcott* Selectman Bridgewater  
Physical Address on Newfound Lake Town State Zip

*Mike James* Selectman Bridgewater  
Mailing Address (if different) Town State Zip

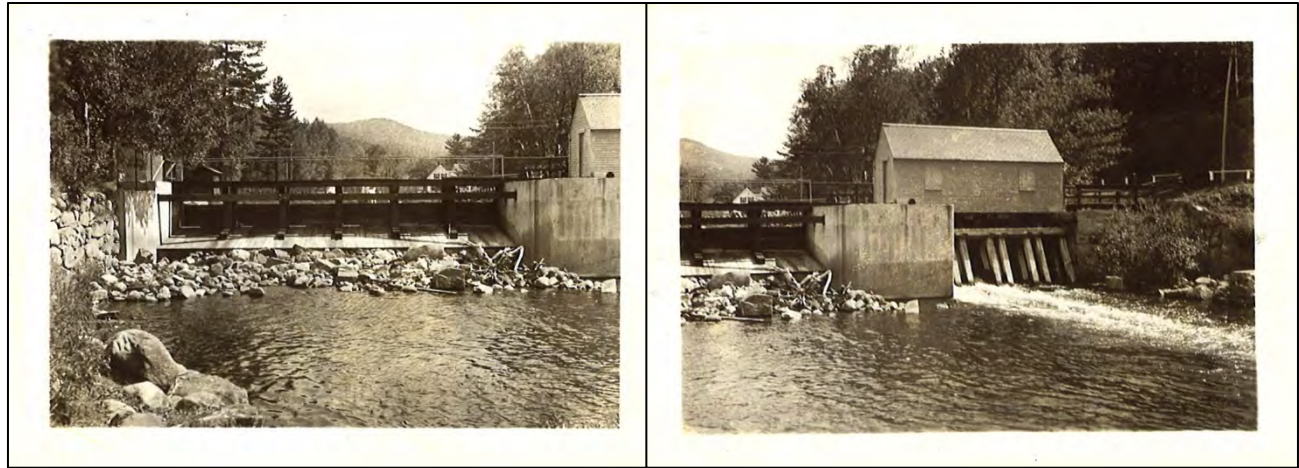
Landowner (signature) Landowner (printed) Date

Physical Address on Newfound Lake Town State Zip

Mailing Address (if different) Town State Zip

Newfound Lake in Bristol D031001

Down  
stream face



08/23/1934



03/21/1974





09/06/1974

*Munford 1974*



Newfound 1976



10/1986



10/1986



10/1986



04/27/1988



07/20/2000



8/23/2002



11/09/2006



Newfound Lake in Bristol D031001  
Upstream face



08/23/1934



03/21/1974



09/06/1974





Newfound 1974



10/1986



10/1986



10/1986



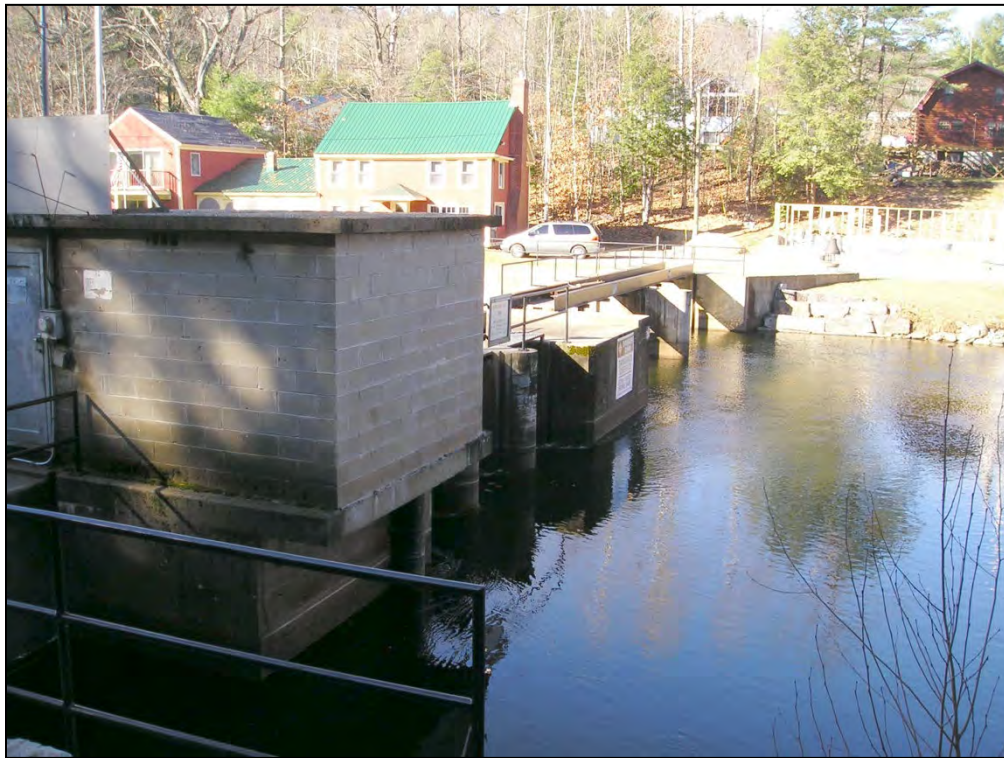
04/27/1988



07/20/2000



8/23/2002



11/09/2006



# NHDAMS DATA SHEET

Dam# **D031001**      Haz Cl: H      Name NEWFOUND LAKE DAM  
Status ACTIVE      Town: BRISTOL  
Haz by Rule:      River: NEWFOUND RIVER  
Condition: POOR      Other Name:  
NATDAM # NH00137      FERC #:      FERC HZCL:

Dam Owner: NH DES WATER DIVISION      Class Own S  
Represent: MR JAMES GALLAGHER      Tel#: 603-271-3406  
Street: PO BOX 95 29 HAZEN DRIVE      Cell#: 603-419-9206  
Mail Town: CONCORD      State: NH      Zip: 03302 0095  
Email: JAMES.GALLAGHER@DES.NH.GOV

Emer Cont MR JAMES GALLAGHER      EC Cell: 603-419-9206  
EC Email: JAMES.GALLAGHER@DES.NH.GOV      EC Tel: 603-271-3406

Alter Cont:      AC Tel:

Last Field Insp: 6/12/2020      Insp By: JRW      Next Insp YR: 2022

Comment: **COUNCIL, GREAT POND**

Physical Loc:

Height ft: 12	Design Event yr: PMF	Principal spill Type BROADGT2
Length ft: 117	Year last HH: 1977	Princpl spill dimen (8)5'8"W (3)4'5"W
Impnd ac: 4410	Design Event inflow cfs: 93500	Stoplogbay dimen (8)5'8"W (3)4'5"W
Free Board 5.7	Design Evnt rtd outflow cfs 16161	Gate dimensions 3@ 6' x 6'
Perm Stor 27500 acft	Unop Disch w/1' frbrd cfs: 2500	Flashboards Y or N N
Max Stor: 40000 acft	Max Unop Disch cfs: 1550	Outlet pipe type NA
Drain Area: 60800 acres	Total Disch - full op cfs: 8760	Pond drain Y or N N
Use: RECREATION	Primary Const: CONCRETE	Auxilliary Spill dimen NA

County: GRAFTON      Tax ID:      Year orig Permit:  
Basin: MERR      Deed BK/PG:      Year orig Const: 1840  
Lat/Lon: 43.6172      , -71.7408      Year last Reconst: 1977

OMR Date 8/12/2021      Drawdown time: FALL  
Fall Drawdown Y      Drawdown dept 3.5'  
Drawdown comment: 3.0' w/SNOW

**NEWFOUND LAKE DAM in BRISTOL**  
**DAM# D031001 HAZCLASS H**  
**OPERATION & MAINTENANCE PLAN**

**BASIC DATA**

Pond area (ac)	4,410
Max height (ft)	12
Length (ft)	117
Perm stor (ac-ft)	27,500
Max stor (ac-ft)	40,000
Drainage area (sq mi)	95
River	Newfound River

**ELEVATIONS**

Gage reading at full lake	Normal 6.00
0 on gage translates to	581.88 msl
USGS at full lake	587.88
USGS at top of dam	593.10
USGS perm spill crest	581.55
Flowage ownership	7.24 gage
5' above natural pond	589.12 usgs
Natural Mean High Water	584.12 usgs 2.24 gage

**HYDROLOGY**

Date Analyzed	1977
100 year storm (cfs)routed	2,500
PMF Design storm (cfs)routed	16,161
Stream stats 100 yr (cfs) 2021	6010
Rise per inch runoff (ft/in)	1.15
CFS days/inch runoff	2066
Time to peak (hrs)	
Disch w/o operations (cfs)	3,350
Disch w/ operations (cfs)	8,760



**SPILLWAY/STOPLOG BAYS**

Stoplog Bays	8-5'8" W 3-4'5" W
Freeboard	5.70
Flashboard height (in)	none

**GATES**

Number of gates	3
Size of gates	6'x6'
Gate sill elev – gage	581.10'
Gate capacity – each (cfs)	

**STOPLOGS (#1 on left)**

Number of stoplog bays	11
# stoplogs in each bay	10
Size of each stoplog	3@ 4'5" x 4" x7 5/8" 8@ 5'8"x4"x7 5/8"
Elev of stoplog sill	581.55

**CONTACTS prior to operations**

Dam is operated by Peter Ames 603-419-9221

Eagle Creek: **Tom Champaign** 603-393-5153  
Eagle Creek: **Cory Cobey** 603-344-2734

**DIRECTIONS:**

From Concord take 93N to exit 23. Take a left at end of ramp onto route 104 and follow to route 3A north. After about 2.4 miles take a left onto West Shore Road. Dirt road on left just before bridge take you to the dam.

**COORDINATES:** N43.6172 W71.7408

# **NEWFOUND LAKE DAM in BRISTOL DAM# D031001 HAZCLASS H**

## **NOTES**

### Minimum Flows

80 cfs June, 60 cfs July, 40 cfs Aug – 1974 agreement for fishery. Fishery flow can be modified in drought. Basin is very flashy. Use Smith River gage as estimated inflow.

## **OPERATIONS**

### Normal

Fill to 6.0' -June 1<sup>st</sup> through Labor Day.  
Lower to 4.5' –Columbus Day to March 30<sup>th</sup>.

### Seasonal fall drawdown

135 or 250 cfs down to 3.5 (3.0 with snow) for hydro.  
Runoff of 2.05 inches to fill 2.5 foot drawdown

## **STORM OPERATIONS**

18 hour lag from peak flow at Smith River.  
Nuisance flooding at 1200 cfs. Try to keep max, Q at 750 cfs  
  
Hydro power flow range is 40 to 250 cfs. 130 is one machine at full power.

## **MISCELLANEOUS**

Owned by NHDES. This is a Great Pond.  
Peter Ames coordinates releases with downstream hydro users.

## **BENCHMARK**

593.75 USGS spike in pole 101/1 on stoplog bay side of dam, RJK

## **MAINTENANCE - SITE VISIT CHECK LIST**

### **Monitor cracking:**

- Minor concrete cracking with efflorescence observed on all sides of the left and right gate blocks, and the left and right spillway abutment walls.

Trees & brush removed as needed. Vegetative cover mowed as needed.  
Concrete repaired as necessary. Outlet works cleaned as necessary.



**EMERGENCY Contacts:** **Jim Gallagher, Chief**  
 Dir: (603) 271-1961  
 Cell: (603)419-9206

**Dan Mattaini, Admin of Operations**  
 Dir: (603)271-8867  
 Cell: (603)419-0293

**LOCAL RESPONDERS:**

Bristol Fire Department 85 Lake Street Bristol, NH 03222 (603) 744-2632	Franklin Fire Department 59 West Bow St. Franklin, NH 03235 (603) 934-2205
Bristol Police Department 230 Lake Street Bristol, NH 03222 (603) 744-6320 (603) 744 2212 (24 hr. Dispatch)	Franklin Police Dispatch 5 Hancock Terrace Frankin, NH 03235 (603) 934-2535

**HAZARD CLASSIFICATION & DOWNSTREAM REVIEW -High Hazard**  
**Table B-1 Summary of 1998 Boss Dambrk Breach Analysis**

Location (miles downstream of dam)	Peak Depth of Flow Above "Normal" Water Level	Increased Depth Above Pre-Existing Flow	Velocity (feet per second)
Riverdale Road (0.4)	13'	6'	9
Upper IPC Dam (0.9)	7' Dam removed	3'	17
Lower IPC Dam (1.4)	9' (7' over top of dam)	4'	11
Bristol Hill Road (2.0)	15'	5'	7
Route 104 (2.7)	15'	4'	8
Route 3A, adjacent to the business district (2.85)	14'	4'	13

## Record of Changes

Field	Date	Change
Title	3/17/08 (KRF)	Change HAZCLASS from C to H
Basic Data	3/17/08 (KRF)	Changed pond area, added river name
Pond area	11/05/08 NLM	Per BAD rpt
coordinates	02/29/2012 (gdw)	Added for GPS users
Contacts	07/30/2014 (DJM)	Removed Bob Fay's name, added Peter Ames
Contacts	07/30/2014 (DJM)	Removed Freudenburg-NOK contact. No longer in operation.
Contacts	07/30/2014 (DJM)	Removed Newfound Hydro 744-2359. Line no longer in service.
Contacts	07/30/2014 (DJM)	Added comment to Tom Champaign's # to call early AM or late PM.
Contacts	07/30/2014 (DJM)	Added Barry Allen's contact info
2 <sup>nd</sup> page	07/30/2014 (DJM)	Changed "inches to fill" with correct data
Contacts, Em Response	08/12/2021 (GEL)	Updated contacts, added Em Response, updated operators



Newfound Lake is located in Grafton County, New Hampshire, United States.

3000 ft