

Emergency Action Plan Ashuelot Pond Dam

Washington, NH

Dam # 245005

Hazard Classification: High

Dam Owner: Ashuelot Pond Dam Village District (APDVD)

EAP Version Date: 2/17/2026

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This Emergency Action Plan (EAP) has been developed to assist emergency responders in the event of a dam failure by providing a protocol for timely notifications, identifying the responsibilities of participants, outlining potential responses or remedies to developing dam-related conditions, and describing and delineating the areas which could be inundated by a failure of the dam under both sunny and storm day conditions.

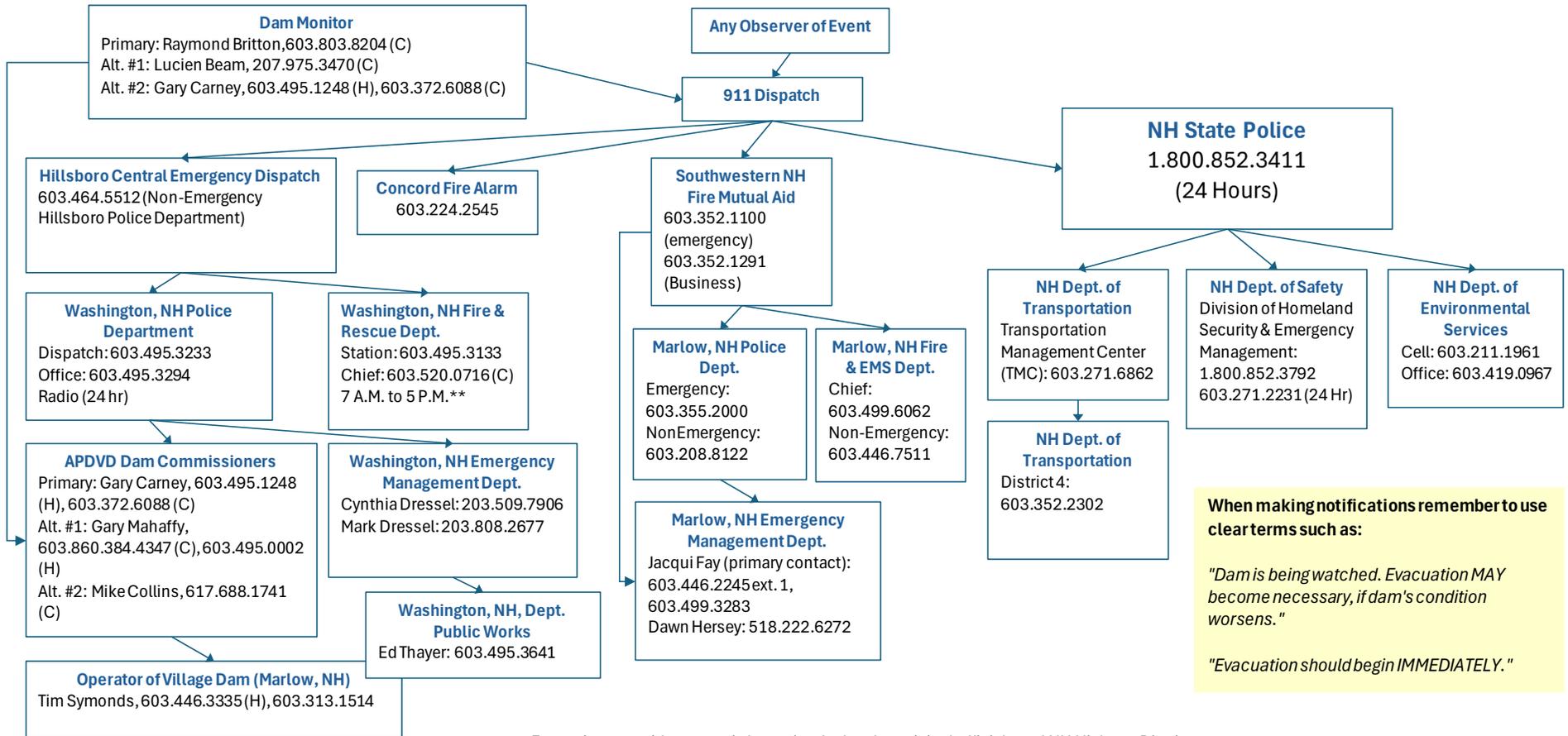
SECTION 1

Notification Flowchart

This flowchart can be found at [APDVD Website Link](#).

Section 1 - Emergency Action Plan (EAP) Notification Flow Chart

October 2025



When making notifications remember to use clear terms such as:

"Dam is being watched. Evacuation MAY become necessary, if dam's condition worsens."

"Evacuation should begin IMMEDIATELY."

For assistance with contact information for local municipal officials and NH Highway Districts, see:

<https://mm.nh.gov/files/uploads/dot/remote-docs/nh-officials-directory.pdf>

<https://www.dot.nh.gov/about-nh-dot/divisions-bureaus-districts/highway-maintenance>

** Concord Fire Alarm, 603.224.2545, can page officer after hours

SECTION 2

General Responsibilities

Ashuelot Pond Dam in Washington, New Hampshire is owned and operated by the Ashuelot Pond Dam Village District. The Emergency Action Plan (EAP) for this dam has been developed under guidelines outlined in the NHDES-WD administrative rules, section Env-Wr 500. The purpose of the EAP is to present information relating to the dam and the potential impacts that failure or misoperation of the dam could have to areas identified on the inundation map (Appendix C). Further, it is to ensure that conditions at the dam are efficiently communicated to local emergency response personnel and/or others so that loss of life and property damage may be minimized in the event that a potentially hazardous situation develops at the dam. **It is the responsibility of all parties to this EAP to participate in the routine testing of the notification flowchart and to take appropriate action whenever the EAP is activated due to an incident or emergency situation at the dam.**

If an actual or potentially hazardous situation exists at the dam, the entities included on the notification flowchart are requested to execute the notifications assigned to them on the flowchart included in Section 1 of this plan. A flood inundation map is also included in Appendix C to assist local authorities in the development of an evacuation plan in the case of dam failure.

Dam owner/EAP coordinator name, address, phone number and email address:

Ashuelot Pond Dam Village District

P.O. Box 105

Washington, NH 03280-0105

Apdvinfo@gmail.com

Mike Collins, 617.688.1741

Notification Flowchart Responsibilities by Person or Agency

Person or Agency	Responsibility
Dam Monitor	Observes water level at dam and spillways, phone or radio 911 if an emergency situation is developing or has developed. Provides information to APDVD commissioners or requesting agency.
911 Dispatch	Contacts Hillsboro Central Emergency Dispatch, Concord Fire Alarm, Southwestern NH Fire Mutual Aid, and NH State Police to alert them of the emergency situation. Participates in testing of the notification procedures.
Hillsboro Central Emergency Dispatch	Contacts Washington, NH Police Department. Participates in testing of the notification procedures.
Concord Fire Alarm	Contacts Washington, NH Fire & Rescue Department. Participates in testing of notification procedures.
Southwestern NH Fire Mutual Aid	Contacts Marlow, NH Police and Fire and EMS Departments. Participates in testing of notification procedures.
NH State Police	Contacts the HSEM, NHDES (after hours use the NHDES call sheet) and NHDOT (TMC). The State Police may also aid in road closures. Participates in testing of the notification procedures.
Washington Police Department	Contacts the APDVD Primary Commissioner or alternate and the Washington Emergency Management Department. Evacuates any inhabitants in the proximity of inundation as depicted in Appendix C. Participates in testing of the notification procedures.
Washington Fire and Rescue Dept.	Aids in evacuation of any inhabitants in the proximity of inundation as depicted in Appendix C. Closes roads as necessary. Assist Marlow Fire and EMS Department. Participates in testing of the notification procedures.
Marlow Police Department	Contact Marlow Emergency Management Department. Assists the Washington Police in the evacuation of any inhabitants in the proximity of inundation as depicted in Appendix C. Participates in testing of the notification procedures.
Marlow NH Fire and EMS Dept.	Assist Washington Fire and Rescue in evacuation of any inhabitants in the proximity of inundation as depicted in Appendix C. Closes roads as necessary. Participates in testing of the notification procedures.

TABLE 2-1 Continued

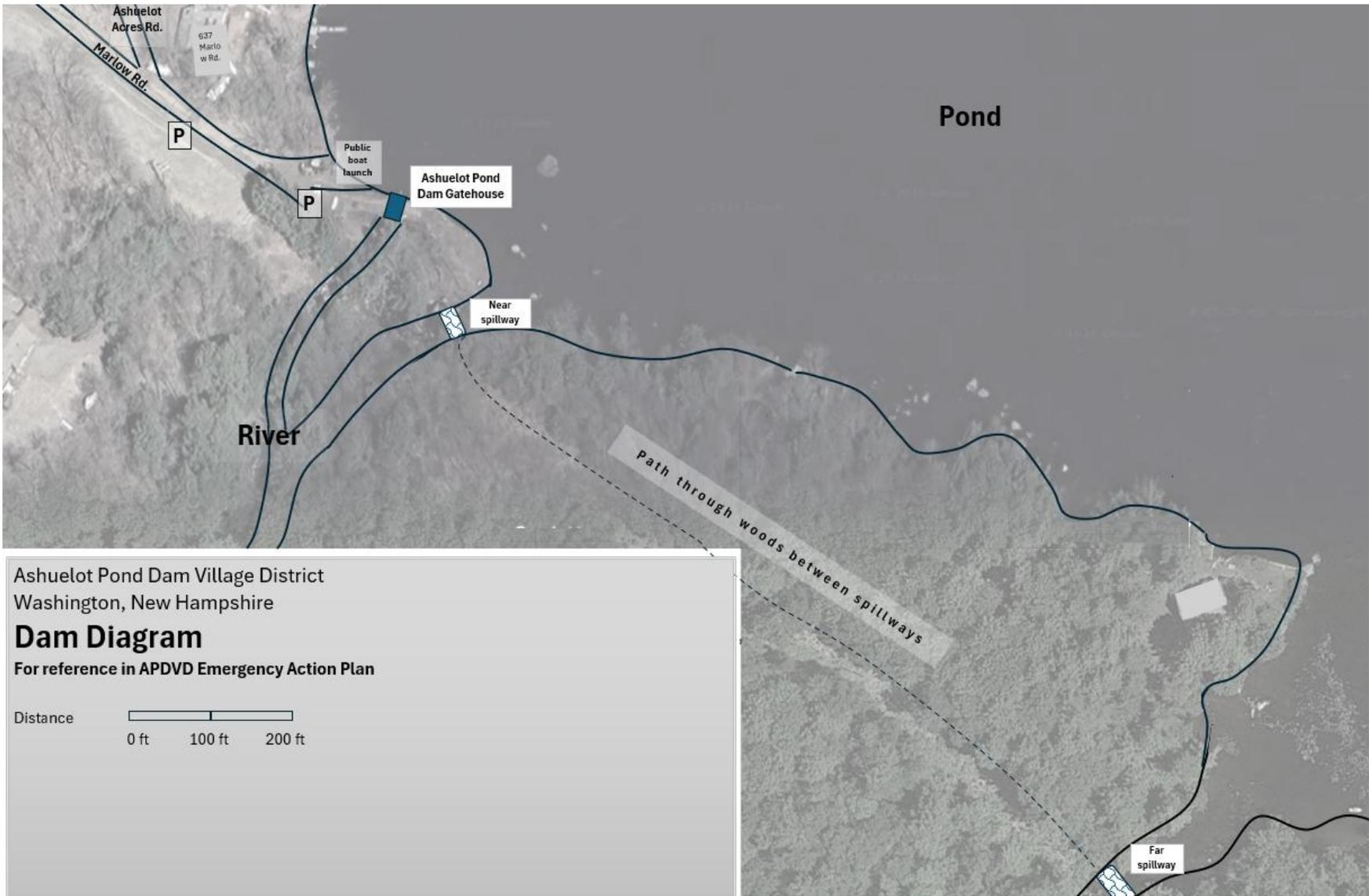
Notification Flowchart Responsibilities by Person or Agency

Person or Agency	Responsibility
NHDOT Traffic Management Center (TMC)	TMC personnel will alert the District 4 office of the emergency situation. Participates in testing of the notification procedures.
NH Department of Safety Homeland Security & Emergency Management	Provide help or assistance to local communities as necessary. Participates in testing of the notification procedures.
APDVD Commissioners	Assist in monitoring the situation. Contacts Dam Monitor. Contacts Operator of Village Dam Marlow, NH. Initiate testing of the notification procedures.
Washington Emergency Management Dept.	Aid in town emergency response. Notifies Washington Public Works and Selectmen. Participates in testing of notification procedures.
Marlow NH Emergency Management Dept.	Aid in town emergency response. Notifies Southwest NH Fire Mutual Aid. Participates in testing of notification procedures.
NHDOT District 4	District 4 highway personnel will close all impacted state highways and provide for detours as necessary. Participate in testing of the notification procedures.
Washington NH Dept. Public Works	Aid in town emergency response.
NHDES Chief Dam Safety Engr.	Provides help or assistance to local communities as necessary. Participates in testing of notification process.
Operator of Village Dam Marlow, NH	Monitors Village Dam Marlow, NH. Phone or radio 911 if an emergency is developing or has developed.

SECTION 3

Preventive Actions

1. **Actions to Correct Malfunction:** In the event that there is a malfunction of the Dam, the owner will institute the Notification Plan. They then will coordinate, with the appropriate parties, to get an operation in place, to deal with the malfunction.
2. **Means, Materials, & Equipment to Address Malfunction:** The owner and the appropriate parties will generate a list containing means, materials and equipment needed to fix the malfunction or to make repairs. The Town of Washington Dept. of Public Works and Marlow Dept. of Public works will be instrumental in this process. At this point, the Department of Environmental Services would be involved because of the Notification Flowchart.
3. **Necessary Equipment & Alternative Power:** The only power needed to open or close the gate is a heavy-duty impact wrench with a 1.5-inch socket. A regular hand wrench or socket of the correct size will also work but would be a lot slower than an impact wrench. Alternative power sources would probably be available through the Town of Washington and Town of Marlow Departments of Public Works. Nothing else at the Dam requires any type of alternative power source to operate.
4. **Preventive & Mitigative Action Measures During Emergencies:** In the case of a breach or possible breach, the Towns of Washington and Marlow will coordinate emergency management (i.e., Police, Fire, Emergency Management, and Public Works).





Dam as viewed from Ashuelot Pond, looking southwest

Near spillway on left side, gatehouse near right, public boat launch and Marlow Road at right edge

APPENDICES

Appendix A [Project Description](#)

Appendix B [Impact of Breach](#)

Appendix C [Inundation Map](#)

Appendix D [Posting of the Plan](#)

APPENDIX A

Project Description

BASIC DATA

Description	Data	Comment
Dam Height	14.9 feet	Height from the lowest elevation at the downstream side to the top of dam
Normal Pond Area	368 acres	Pond area at the normal water level
Normal Storage	3,319 acre-feet	Storage volume with pond level at spillway crest
Maximum Storage	4,000 acre-feet	Storage volume with the water level at the top of the dam
Drainage Area	16,865 acres	Total land area that contributes runoff to the dam
Spillway Freeboard	4.3 feet	Vertical distance from the spillway crest (normal water level) to the top of the dam
Discharge Capacity	1941 cfs	Total capacity of the dam (all outlet works) with the water level 1 foot below the top of the dam and assuming no manual operations

Appendix B

Impact of Breach

Failure During Sunny Day Flow Conditions

During a breach of the Ashuelot Pond Dam during the Sunny Day Event (no antecedent flood condition) the Washington Pond Road bridge crossing is overtopped by approximately 6-inches at a velocity of approximately 3.1 fps. This depth and velocity is enough to make crossing by pedestrians or vehicles hazardous.

In addition, the residence at 381 Washington Pond Road is flooded by approximately 2.1-feet at a velocity of 2.7 fps. At this depth and velocity, erosion of the ground around the structure is likely, and anyone present in the yard at the time of the breach flood wave would likely not be able to withstand the water pressure forces. See the tables below for details.

Failure During 100-year Design Event Conditions

During the Rainy-Day event, based on a 100-year flood event antecedent condition, increases in flood elevation downstream of the Washington Pond Road bridge crossing are generally less than 1-foot. However, the Russell Mill Road bridge crossing is not overtopped during the antecedent storm event but overtopped by approximately 1.5-feet during a breach event. Washington Pond Road crossing is overtopped during the antecedent 100-year flood event by approximately 6-inches and overtopped 2.8-feet during a modeled breach event. See the tables below, identifying areas of impact from upstream to downstream.

Downstream Impacts of a breach of the Ashuelot Pond Dam

1 Russell Mill Bridge Crossing

Approximate Bridge Deck elev = 1430.0 ft NAVD88

100-year flood elevation = 1429.6 ft NAVD88

100-year breach elevation = 1431.5 ft NAVD88

Approximate Flood depth = 1.5 ft

100-year breach flood velocity = 21.1 fps

Sunny Day breach elevation = No Impact

Sunny Day velocity = No Impact

Initial impact from breach = No Impact

Peak impacts = No Impact

2 Washington Pond Bridge

Approximate Bridge Deck elev = 1409.9 ft NAVD88

100-year flood elevation = 1411.5 ft NAVD88

2 Washington Pond Bridge (cont'd)

100-year breach elevation = 1412.7 ft NAVD88
Approximate Flood depth = 2.8 ft
100-year breach flood velocity = 1.8 fps
Sunny Day breach elevation = 1410.4 ft NAVD88
Sunny Day velocity = 3.1 fps
Initial impact from breach = 8.0 minutes
Peak impacts = 20.0 minutes

3 423 Washington Pond Rd

Approximate ground elevation = 1182.0 ft NAVD88
100-year flood elevation = 1184.8 ft NAVD88
100-year breach elevation = 1185.1 ft NAVD88
Approximate Flood depth = 3.1 ft
100-year breach flood velocity = 3.4 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

4 405 Washington Pond Rd

Approximate ground elevation = 1180.1 ft NAVD88
100-year flood elevation = 1184.7 ft NAVD88
100-year breach elevation = 1185.0 ft NAVD88
Approximate Flood depth = 4.9 ft
100-year breach flood velocity = 3.1 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

5 403 Washington Pond Rd

Approximate ground elevation = 1180.0 ft NAVD88
100-year flood elevation = 1184.6 ft NAVD88
100-year breach elevation = 1184.9 ft NAVD88
Approximate Flood depth = 4.9 ft
100-year breach flood velocity = 3.4 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

6 381 Washington Pond Rd

Approximate ground elevation = 1176.0 ft NAVD88
100-year flood elevation = 1184.3 ft NAVD88
100-year breach elevation = 1184.6 ft NAVD88
Approximate Flood depth = 8.6 ft
100-year breach flood velocity = 3.9 fps
Sunny Day breach elevation = 1178.1 ft NAVD88
Sunny Day velocity = 2.7 fps
Initial impact from breach = 50.0 minutes
Peak impacts = 84.0 minutes

7 345 Washington Pond Rd

Approximate ground elevation = 1177.8 ft NAVD88
100-year flood elevation = 1184.2 ft NAVD88
100-year breach elevation = 1184.4 ft NAVD88
Approximate Flood depth = 6.6 ft
100-year breach flood velocity = 2.6 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

8 MH Rte 10/Symondsville Road

Approximate ground elevation = 1168.3 ft NAVD88
100-year flood elevation = 1170.6 ft NAVD88
100-year breach elevation = 1171.5 ft NAVD88
Approximate Flood depth = 3.2 ft
100-year breach flood velocity = 7.9 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

9 NH Rte 10

Approximate ground elevation = 1164.2 ft NAVD88
100-year flood elevation = 1164.9 ft NAVD88
100-year breach elevation = 1165.0 ft NAVD88
Approximate Flood depth = 0.8 ft
100-year breach flood velocity = 6.2 fps
Sunny Day breach elevation = No Impacts
Sunny Day velocity = No Impacts
Initial impact from breach = No Impacts
Peak impacts = No Impacts

Appendix C

Inundation Map

Detailed, full-sized (zoomable) inundation maps of the dam area and potentially impacted downstream areas are available at APDVD.org (“Emergency Action Plans”)

APPENDIX D

Posting of the Plan

All persons and agencies listed below have been issued a copy of the EAP and shall be provided with an up-to-date copy of the plan after each update.

NH Department of Environmental Services (NHDES)
Attn: Dam Bureau
29 Hazen Drive
PO Box 95
Concord, NH 03301-0095
603-271-1961 (office), 603-419-0967 (cell)

NH Dept of Safety Homeland Security and Emergency
Management (HSEM)
Attn: Operations
33 Hazen Drive
Concord, NH 03305
1-800-852-3792, 271-2231 (24 Hr)

NH Dept. of Transportation,
Transportation Management Center (TMC)
110 Smokey Bear Boulevard
Concord, NH 03301
Ph 271-6862 Fax 271-8626
Email TMC@dot.state.nh.us
(Copy of the flowchart only.)

NH Bureau of Emergency Communications (911)
Attn: Operations Supervisor
110 Smokey Bear Boulevard
Concord, NH 03301
(Copy of the flowchart only.)

NH Dept. of Safety - State Police
Headquarters/Communications
33 Hazen Drive
Concord, NH 033051
1-800-852-3411

NH DOT District # 4
Attn: John Kallfelz
19 Base Hill Road, Swanzey, NH 03446
603-352-2302
District4@dot.nh.gov

Hillsboro Central Emergency Dispatch
PO Box 1489
Hillsborough, NH 03244
603-464-5512

Concord Fire Alarm
25 Hall Street Suite 1H
Concord, NH 03302
603-224-2545
(Copy of the flowchart only.)

Southwestern NH Fire Mutual Aid
32 Vernon Street
Keene, NH 03432
603-352-1100

Washington Police Department
5 Halfmoon Pond Road
Washington, NH 03280
603-495-3233

Washington Fire Department
7 Halfmoon Pond Road
Washington, NH 03280
603-495-3133

Washington Emergency Management Dept.
7 Halfmoon Pond Road
Washington, NH 03280
603-495-3461

Marlow Police Department
18 Church Street
Marlow, NH 03456
603-355-2000

Marlow NH Fire and EMS Dept.
PO Box 275
123 NH Route 123
Marlow, NH 03456
603-499-6062

Marlow NH Emergency Management Dept.
Town of Marlow
167 NH Route 123
Marlow, NH 03456
603-446-2245

Tim Symonds
Marlow NH Village Pond Dam
PO Box 105
Marlow, NH 03456
603-446-3335