



FUSS & O'NEILL

July 29, 2016

Commonwealth of Massachusetts
Department of Conservation and Recreation
Office of Dam Safety-Inspections Unit
180 Beaman Street
West Boylston, MA 01583

RE: Follow-up Inspection
Waite Pond Dam MA00987
Leicester, MA

To: Office of Dam Safety:

Fuss & O'Neill, Inc. has completed the Follow-up Inspection for Waite Pond Dam as required by the Dam Safety Regulations and the Dam Safety Order. The inspection was performed on July 21, 2016. Our Follow-up assessment of the dam indicates the overall condition of the dam to be in Poor Condition.

The Follow-up Inspection Form describing the current condition and deficiencies of the dam is attached. Please contact us, if you have any questions regarding this report.

Sincerely,

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Connecticut

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Christopher J. Cullen, P.E.
Senior Project Manager

Attachment: Follow-up Inspection Form
Site Sketch
Locus Map

Waite Pond Dam Follow-Up Inspection
July 29, 2016

Commonwealth of Massachusetts
Department of Conservation and Recreation
Office of Dam Safety Poor Condition Dam
Follow-up Inspection Form

Dam Name: Waite Pond Dam
Dam Owner: Town of Leicester
Nat. ID Number: MA00987
Hazard Potential: Significant
Location of Dam (town): Leicester
Coordinate location (lat, long): 42° 14.9' N, 71° 53.3' W
Date of Inspection: July 21, 2016
Weather: Clear, 75 degrees F

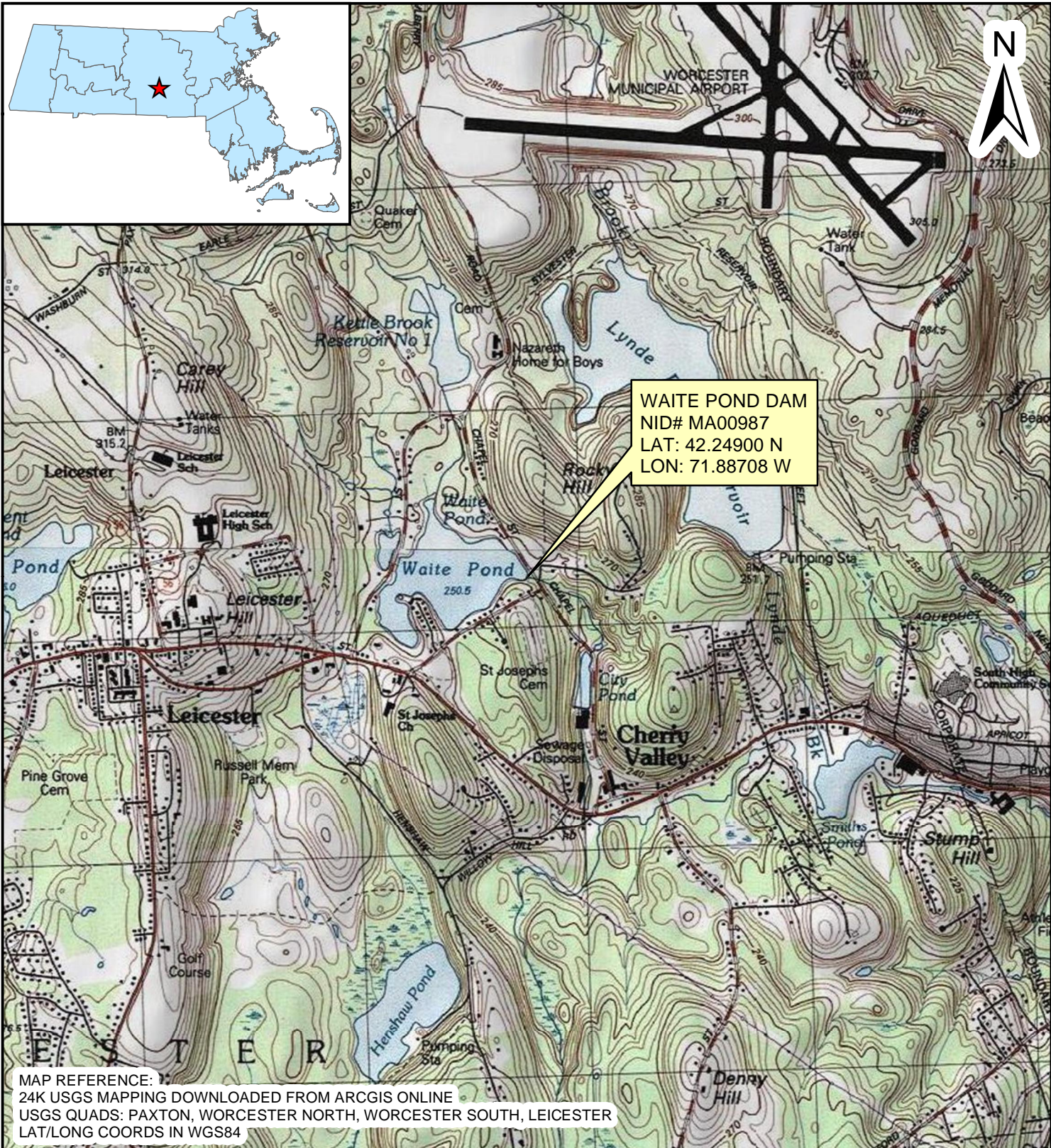
- I. Previous Inspection date/Overall Condition:
 - The dam was previously found to be in Poor Condition at the time of the previous Phase I Inspection performed on January 26, 2016.

- II. Previous Inspection Deficiencies
 - The deficiencies identified in that report included the following:
 - a. Deteriorating and undermined concrete training walls and embankment walls.
 - b. Upstream left embankment wall leaning toward impoundment.
 - c. Downstream right masonry embankment wall overhanging out of plumb and missing stones.
 - d. Downstream left masonry channel wall collapsing
 - e. Tree root penetration into embankment.
 - f. Subsidence/depressions in right crest of dam.
 - g. Low level outlet structure leaning out of plumb, concrete deteriorated, foundation undermined, no roof.
 - h. Low level outlet pipe operator operability unknown.
 - i. Low level outlet pipe 50 percent full of sediment.
 - j. Dense woody vegetation present on the right embankment crest and along the toe of the downstream retaining wall.

 - Overall Condition of Dam at the Time of the Current Follow-up Inspection:
The current condition of the dam is Poor. In addition to the previous inspection deficiencies listed above, seepage was observed through the energy dissipation basin and around the low level outlet pipe into the downstream channel. Animal burrows were observed in the vicinity of the left downstream stone retaining wall and crest.

Waite Pond Dam Follow-Up Inspection
July 29, 2016

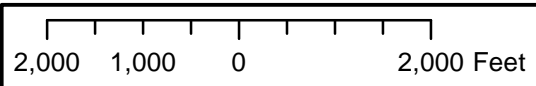
- Comparison of Current Conditions to Conditions Listed in Previous Phase I Inspection Report:
The dam appears to be the generally the same as previously inspected in January 2016.
- Dam Safety Orders:
Certificate of Non-Compliance and Dam Safety Order dated February 22, 2008 issued by the Massachusetts DCR Office of Dam Safety.
- Maintenance:
There is currently no routinely scheduled maintenance for the dam. However, an informal lake resident group has taken on the operation and maintenance of the dam.
- Recommendations:
A Phase II Inspection and Investigation in accordance with the Dam Safety Order was completed by Fuss & O'Neill, Inc. in August 2014. We recommend repairs in accordance with the recommendations contained in the Phase II report.
- Other Comments or Observations:
The operability of the low-level outlet gate is unknown.
- Updated Site Sketch with Photo Locations:
An updated site sketch with photo locations is attached.
- Updated Photos:
Updated photographs of the dam are attached.
- Copy of Locus Map from Phase I Report:
A copy of the previous Locus Map is attached
- Other Applicable Attachment: None



MAP REFERENCE:
 24K USGS MAPPING DOWNLOADED FROM ARCGIS ONLINE
 USGS QUADS: PAXTON, WORCESTER NORTH, WORCESTER SOUTH, LEICESTER
 LAT/LONG COORDS IN WGS84

JULY 2016

FIGURE 1



TOWN OF LEICESTER

LOCUS MAP

WAITE POND DAM (MA00987)

SCALE
 HORZ: 1 INCH = 2,000 FEET
 VERT:
 DATUM
 HORZ:
 VERT: NGVD29 (3-METER CONTOURS)



LEICESTER, MASSACHUSETTS



FUSS & O'NEILL

Prepared By

SAH

Date

07/21/2016

Checked By

Date

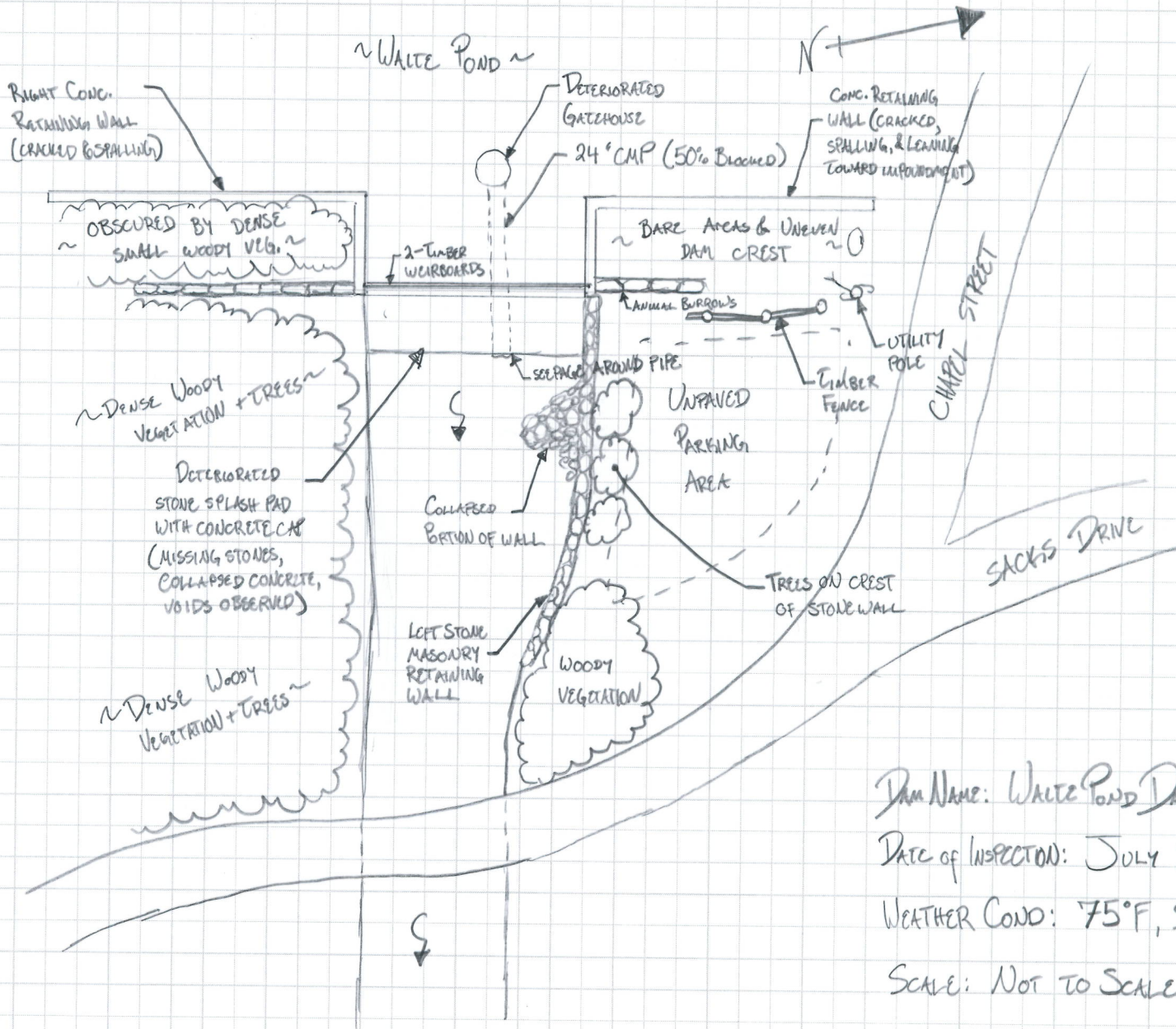
Project No

20081286, A71

Sheet No

1 of 1

WALTE POND DAM - MAGNUS7 - FIELD SKETCH - FOLLOW UP INSPECTION

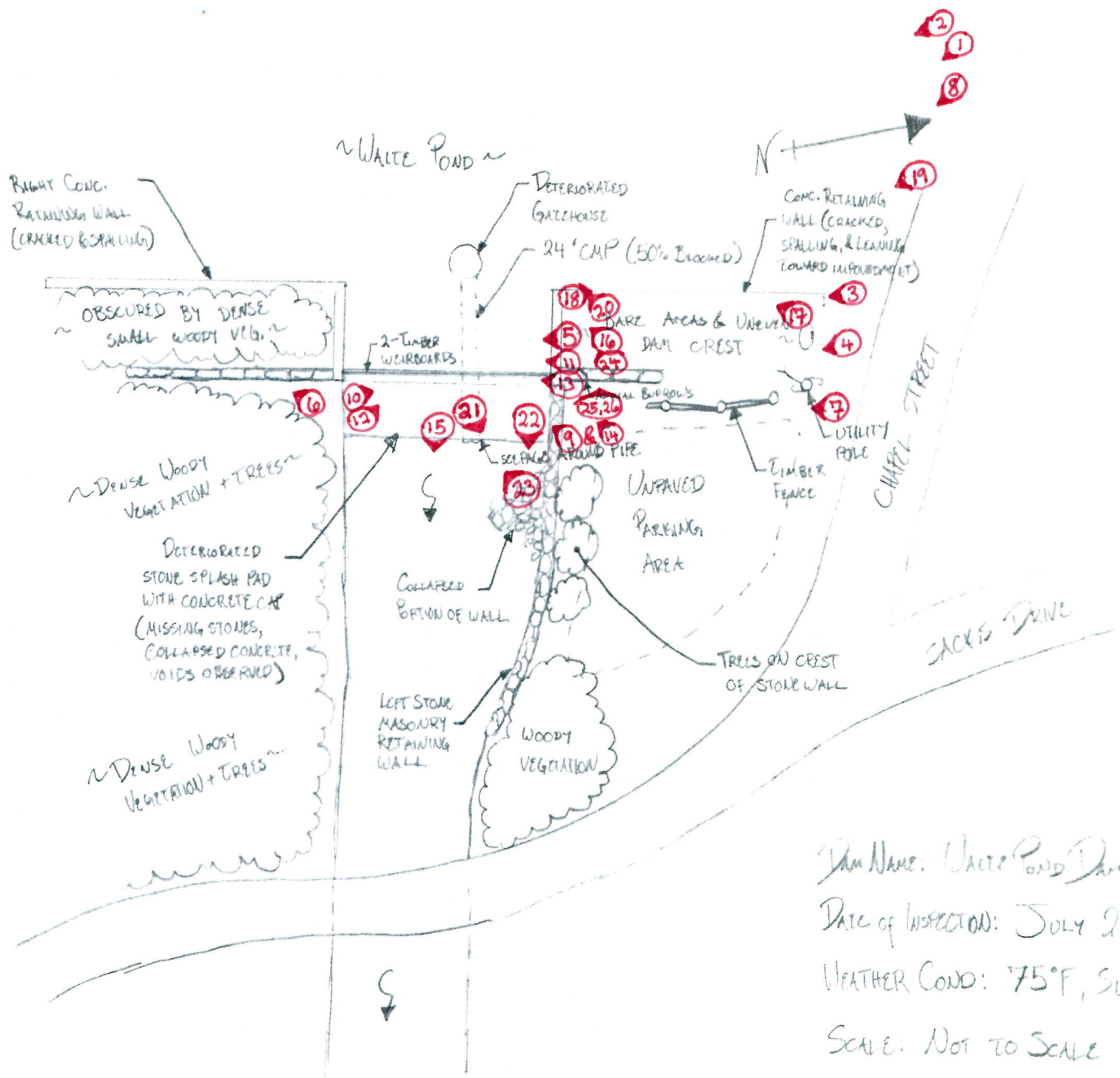


DAM NAME: WALTE POND DAM

DATE OF INSPECTION: JULY 21ST, 2016

WEATHER COND: 75°F, SUNNY

SCALE: NOT TO SCALE



Dam Name: White Pond Dam

Date of Inspection: July 21ST, 2016

Weather Cond: 75°F, SUNNY

Scale: NOT TO SCALE



Photo 1: Overview of dam from upstream



Photo 2: Overview of right face from upstream



Photo 3: Overview of upstream face from left abutment



Photo 4: Overview of dam crest facing left abutment



Photo 5: Overview of dam crest facing right abutment



Photo 6: Overview of right grouted stone masonry face from downstream



Photo 7: Overview of downstream face from left abutment



Photo 8: Overview of spillway from upstream



Photo 9: Overview of spillway from downstream



Photo 10: Overview of spillway from downstream



Photo 11: Overview of right training wall



Photo 12: Overview of left training wall



Photo 13: Overview of spillway from left training wall



Photo 14: Overview of stilling basin



Photo 15: Overview of downstream channel



Photo 16: Overview of gatehouse exterior



Photo 17: Leaning upstream wall



Photo 18: Deteriorating upstream wall



Photo 19: Deteriorating upstream wall



Photo 20: Woody vegetation growing through upstream wall



Photo 21: Collapsed downstream training wall



Photo 22: Collapsed downstream training wall



Photo 23: Low-level outlet pipe



Photo 24: Overview of impoundment (Waite Pond)



Photo 25: Burrows observed in downstream left stone retaining wall



Photo 26: Burrows observed in downstream left stone retaining wall