

WVU COPY

**DEP/WRU DAM INSPECTION CHECKLIST**

**DAM NAME & NUMBER:** Birch Mill Pond **INSPECTION DATE:** 10/13/88  
#05004

**IMPOUNDMENT AREA:** 11.1 acres **POOL LEVEL:** 2" below spillway  
crest

**WEATHER CONDITIONS:** 50 F & clear **INSPECTOR(S):** DJM & EWR

**DAM/EMBANKMENTS**

**ACTION TAKEN:** Engineering Request

**GENERAL CONDITION:** Left embankment is fair, Right embankment is poor.

**VEGETATIVE COVER:** Good grass cover on the left embankment. Vegetative cover is not suitable on the right embankment. Trees and woody vegetation on the embankment, downstream toe and within 25' of the downstream toe.

**EROSION / BURROW:** Significant surface erosion on the crest and the downstream slope. Large scoured area on the downstream toe near the right abutment. Minor scouring on the upstream slope.

**SETTLEMENT / ALIGNMENT MOVEMENT:** The crest cross section is irregular. The right embankment is approximately 1' higher than the left embankment. There is 1' of freeboard on the left embankment. The crest elevation is irregular. The downstream slope grade is not uniform. The upstream slope is steep. There is a scour hole on the right abutment.

**SEEPAGE / FOUNDATION DRAINAGE:** None observed.

**REPAIR:** The upstream concrete wingwalls extend approximately 10' from both spillway training walls.

**CONCRETE CONDITION:** The wingwalls have hairline cracks.

**CRACKS:** See concrete.

**OTHER:** Material is dumped on the downstream slope.

**SPILLWAY / TRAINING WALLS / APRON**

**GENERAL CONDITION:** Good. Appears to have been repaired in the last three years.

**SETTLEMENT / ALIGNMENT / MOVEMENT:** No settlement or movement observed. Alignment is fair.

**STONE MASONRY:** Chinks and voids observed on the downstream vertical masonry headwall.

**CONCRETE CONDITION:** The concrete is in good condition.

**CRACKS:** None observed.

**SCOURING / UNDERMINING:** None observed.

**OTHER:** Erosion and surface erosion protection required adjacent to the left training wall. Beaver activity in spillway noted by placement of brush in the weir.

**DOWNSTREAM CHANNEL**

**SCOURING:** None observed.

**DEBRIS:** Woody debris accumulating in the downstream channel. Piled stones observed in the downstream channel.

**RIPRAP:** Stones placed informally provide some protection.

**INTAKE STRUCTURE(S)**

**GENERAL CONDITION:** Condition unknown.

**CONCRETE CONDITION:** N/A

**SETTLEMENT / ALIGNMENT / MOVEMENT:** N/A

**STONE MASONRY:** N/A

**CRACKS:** N/A

**OTHER:** N/A

**OUTLET STRUCTURE(S)**

**GENERAL CONDITION:** Appears inoperative. Obstructed by heavy vegetative growth.

**CONCRETE CONDITION:** N/A

**SETTLEMENT / ALIGNMENT / MOVEMENT:** Settlement and movement is minimal. Alignment is fair.

**SCOURING / UNDERMINING:** None observed.

**STONE MASONRY:** Fair. Chinks are required.

**OTHER:** Richard Krepel was present for the inspection. Send copy to Richard Krepel, 288 West Brook Road, Essex, CT 06426.

**MISCELLANEOUS FEATURES**

**ACCESS - ROADS, BRIDGES, etc.:** Good.

**SAFETY - FENCING, RAILING, etc.:** None observed.

**DOWNSTREAM HAZARD REASSESSMENT:**

A or low Hazard.  
There is an access bridge 200' downstream.

**RECOMMENDATIONS:**

1. Eradicate beaver activity in the spillway area.
2. Chink and/or repair masonry as required to maintain adequate stability.
3. Remove all the woody vegetation and trees on the embankment and within 25' of the downstream toe. Provide a suitable vegetative cover.
4. Provide a suitable grade on the upstream and downstream slope of the right embankment.
5. Provide upstream wave protection.
6. Investigate the operability of the low level outlet.
7. Provide the crest of the right embankment with a uniform elevation.
8. Seal all concrete joints and cracks.
9. Provide downstream riprap in the outlet channel.
10. Eliminate the surface erosion adjacent to the left spillway training wall.

Birch Mill Pond  
Essex - #05004



Spillway as viewed from the downstream. Note beaver activity in the spillway weir.



Left embankment with spillway in the background. Note the heavy vegetative cover on the right embankment.