

Facility Rehabilitation (Pooled), p. 2 of 96, \$1,340,000

Q. What were the dates of the most recent inspections of the dams at Heart's Content, Pierre's Brook, West Brook, Lawn, Seal Cove, Port Union and Rocky Pond?

A. Heart's Content Long Pond Outlet Structure

The most recent inspection of Long Pond outlet structure was completed as part of Newfoundland Power's Dam Safety Inspection of the Heart's Content Development in October 2008. The inspection was completed by:

- Gary Humby, P.Eng;
- Bill Titford, Engineering Technologist; and
- Glen Squires, Power Plant Operator.

Long Pond outlet structure was rebuilt in March of 1988. No major rehabilitation projects have been undertaken on this structure since that time.

Pierre's Brook Gull Pond Dam

The most recent inspection of Gull Pond dam was completed as part of Newfoundland Power's Dam Safety Inspection of the Pierre's Brook Development in June 2007. The inspection was completed by:

- Jennifer Williams, P.Eng;
- Aileen Strong, B.Eng; and
- Bill Titford, Engineering Technologist.

Gull Pond was originally built in 1931 and is currently 78 years old. The most recent rehabilitation project for this structure was completed in 2003. The rehabilitation included re-grading the existing riprap on the upstream slope of the dam and raising the crest of the dam.

West Brook Intake Structure

The most recent inspection of the intake structure and spillway at West Brook canal was completed as part of Newfoundland Power's Dam Safety Inspection of the West Brook Development in September of 2008. The inspection was completed by:

- Gary Humby, P Eng.;
- Bill Titford, Engineering Technologist; and
- William Guy, Supervisor of Electrical and Plant Maintenance.

The intake structure at West Brook Canal was originally built in 1942 and is currently 67 years old. The most recent major rehabilitation of this structure was completed in 1987. The rehabilitation consisted of concrete repairs to the intake foundation and the replacement of the intake gate.

1 The spillway at West Brook Canal was also built in 1942. The most recent major
2 rehabilitation of this structure was completed in 1996. The rehabilitation consisted of
3 concrete repairs to the spillway.
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5 **Lawn Intake Structure**

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7 The most recent inspection of the forebay dam and intake structure at Lawn was
8 completed as part of Newfoundland Power's Dam Safety Inspection of the Lawn
9 Development in September of 2008. The inspection was completed by:

- 10 • Gary Humby, P Eng.;
- 11 • Bill Titford, Engineering Technologist; and
- 12 • William Guy, Supervisor of Electrical and Plant Maintenance.

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14 The forebay dam at Lawn was originally built in 1930 and is currently 79 years old. The
15 most recent major rehabilitation of this structure was completed in 1995. The
16 rehabilitation consisted of widening the spillway channel to increase discharge capacity
17 and installing additional rockfill on the downstream side of the dam. No concrete repairs
18 to the dam were made during this time. The most recent concrete repairs to the dam were
19 completed in 1983.
20

21 The intake structure was originally built in 1930. The original intake structure was a
22 timber crib structure. The timber crib structure was completely rebuilt in the 1950's with
23 a concrete structure. The most recent major rehabilitation of this concrete intake
24 structure was completed in 1995. The rehabilitation consisted of repairs to the gate and
25 the concrete support structure for the gate.
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27 **Seal Cove Intake Structure**

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29 The most recent inspection of the intake structure at Seal Cove was completed in March
30 2009 after a piece of concrete, that appeared to have come from the intake structure,
31 jammed open the wicket gates on one of the generator units. The inspection was
32 completed by:

- 33 • Gary Humby, P Eng.;
- 34 • Bill Titford, Engineering Technologist;
- 35 • Robin Vivian, Engineering Technologist; and
- 36 • Sea Force Diving.

37
38 The existing intake structure at Seal Cove was constructed when the concrete forebay
39 dam was installed in the 1950s. The most recent major rehabilitation to the intake
40 structure at Seal Cove was completed in 1984. The rehabilitation consisted of an
41 extension to the gatehouse, the replacement of the intake gate and rehabilitation to the
42 concrete dam.

Port Union Intake Structure

The most recent inspection of the intake structure at Port Union was completed as part of Newfoundland Power's Dam Safety Inspection of the Port Union Development in October of 2008. The inspection was completed by:

- Gary Humby, P Eng;
- Bill Titford, Engineering Technologist; and
- Bob Keough, Power Plant Operator.

The existing intake structure at Port Union was constructed in the 1950's. The wooden gatehouse was reconstructed in 1988. At this time concrete repairs were completed to the foundation. In 2003 wire mesh was installed along the north and south walls at the waterline of the concrete foundation to prevent further deterioration.

Rocky Pond Butler's Spillway

The most recent inspection of the Butler's Spillway at Rocky Pond was completed as part of Newfoundland Power's Dam Safety Inspection of the Rocky Pond Development in November of 2008. The inspection was completed by:

- Bill Titford, Engineering Technologist;
- Rich Howley, Engineering Technologist; and
- Robin Vivian, Engineering Technologist.

Butlers spillway was rebuilt in 1989. No major rehabilitation has been completed to this structure since this time.