

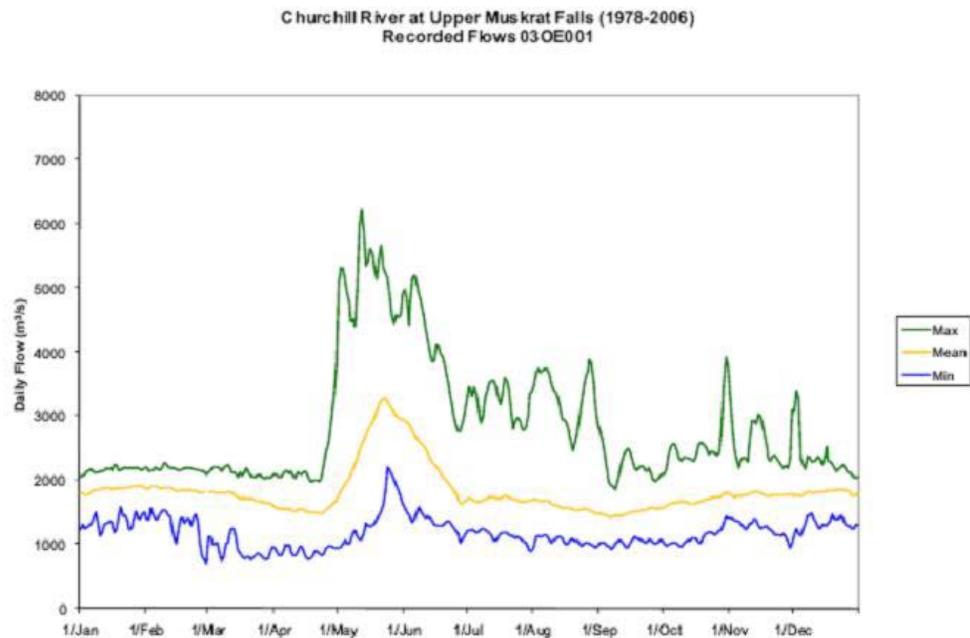
1 Q. Re: GRK-NLH-21, rev. 1

2 Citation 1 (WMA Application, Appendix A, p. 4-11):

3 4.2.2.2 Powerhouse

4 The Muskrat Falls powerhouse will be a surface-type, concrete structure with a
5 steel superstructure, 188 m long by 69 m wide. Four turbines each with a
6 capacity of 206 MW will provide a total installed capacity of 824 MW. In turn,
7 total discharge from the powerhouse will be 2,660 m³/s. The net head will be 35
8 m.

9 Citation 2 (WMA Application, Figure 4, page 16):



Source: Environment Canada 2007, Internet site.

1

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Figure 4: Muskrat Falls (Monitoring Station 03OE001) Hydrograph

10

11 **Preamble:**

12 Figure 4 in Citation 2 shows that, in some years, flows on the Churchill River at
13 Upper Muskrat Falls exceed 2,660 m³/s throughout the summer.

1 **Please indicate the amount of spillage from Muskrat Falls in a year which flows on**
2 **the Churchill River at Upper Muskrat Falls equal those shown in the upper line of**
3 **Figure 4.**

4

5

6 A. The quantity of spillage from Muskrat Falls during a wet year with high inflows does
7 not affect production at Muskrat Falls or the reliability of the plant. Hydro has not
8 carried out the requested analysis and does not believe it is relevant to the present
9 proceeding. Hydro also notes that this is one potential hydrological sequence,
10 which may or may not occur and is thus a single hypothetical scenario. In this
11 regard, please see Hydro's response to GRK-NLH-104.

12

13 To the extent the Grand Riverkeeper believes this is relevant to the present review
14 (which Hydro does not, for the reasons cited above), the data necessary for it to
15 undertake the analysis itself is available from the following location:

16

17 http://wateroffice.ec.gc.ca/search/search_e.html?sType=h2oArc. The station id is
18 03OE001.

19

20 Flows in excess of the 2,660 m³/s rated discharge referenced above will be spilled.