



Government of Newfoundland and Labrador  
Department of Environment and Conservation  
Water Resources Management Division

### AMENDMENT TO PERMIT

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Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 49

Date: **NOVEMBER 26, 2015**

File No: **536-12**  
Permit No: **ALT6700-2012**  
Amendment No: **2**

Permit Holder: **Nalcor Energy**  
**500 Columbus Drive**  
**P.O. Box 12800**  
**St. John's NL A1B 0C9**

Attention: **Peter Madden**

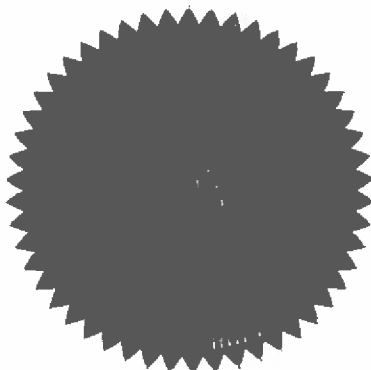
Re: **Lower Churchill Muskrat Falls - Bulk Excavation and Associated Civil Works**

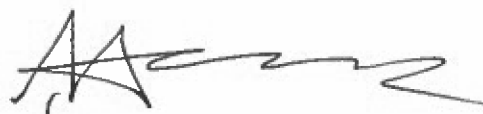
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**The original Permit dated OCTOBER 31, 2012 is amended as follows:**

Terms and Conditions are amended as per the attached documents, in reference to the request for amendment received on September 24, 2015 and additional information provided on or before November 26, 2015.

All other terms and conditions of the original Permit will apply and failure to comply with the terms and conditions of this amendment and the original Permit will render this Permit null and void, place the Permit Holder and their agent(s) in violation of the *Water Resources Act* and make the Permit Holder responsible for taking any remedial measures as may be prescribed by this Department.



  
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15. The Proponent shall perform a Water Quality Monitoring Program for the sampling locations as detailed in the table below **when discharging**.

Minimum frequency of sampling shall be as follows:

- When work commences in an area, **weekly** sampling is required for the first four (4) weeks.
- After four (4) compliant sample sets have been obtained, sampling can be reduced to **monthly** until an exceedance report is recorded, at which time **weekly** sampling is required to recommence until four (4) compliant sample sets are obtained.
- **During periods of high precipitation.** High precipitation is defined as being in excess of 25 millimeters in 24 hours measured as Total Rain at Muskrat Falls Met climate station NLENCLO006.

Site #	Location	Frequency	Parameters
1	Outlet of ditch D8	Weekly / Monthly and High Precipitation	pH, TSS, nitrate, nitrite, ammonia
2	Outlet of ditch D7	Weekly / Monthly and High Precipitation	pH, TSS, nitrate, nitrite, ammonia
3	Outlet of Downstream Spillway	Weekly / Monthly and High Precipitation	pH, TSS, nitrate, nitrite, ammonia

The locations of Site #1, Site #2 and Site #3 are highlighted on the Location Maps for this Permit attached as Appendix C.

16. The Proponent shall perform a Water Quality Monitoring Program for the sampling locations as detailed in the table below.

Water chemistry and metals scan shall be sampled on a quarterly basis not closer than 30 days between samples **during open water periods**.

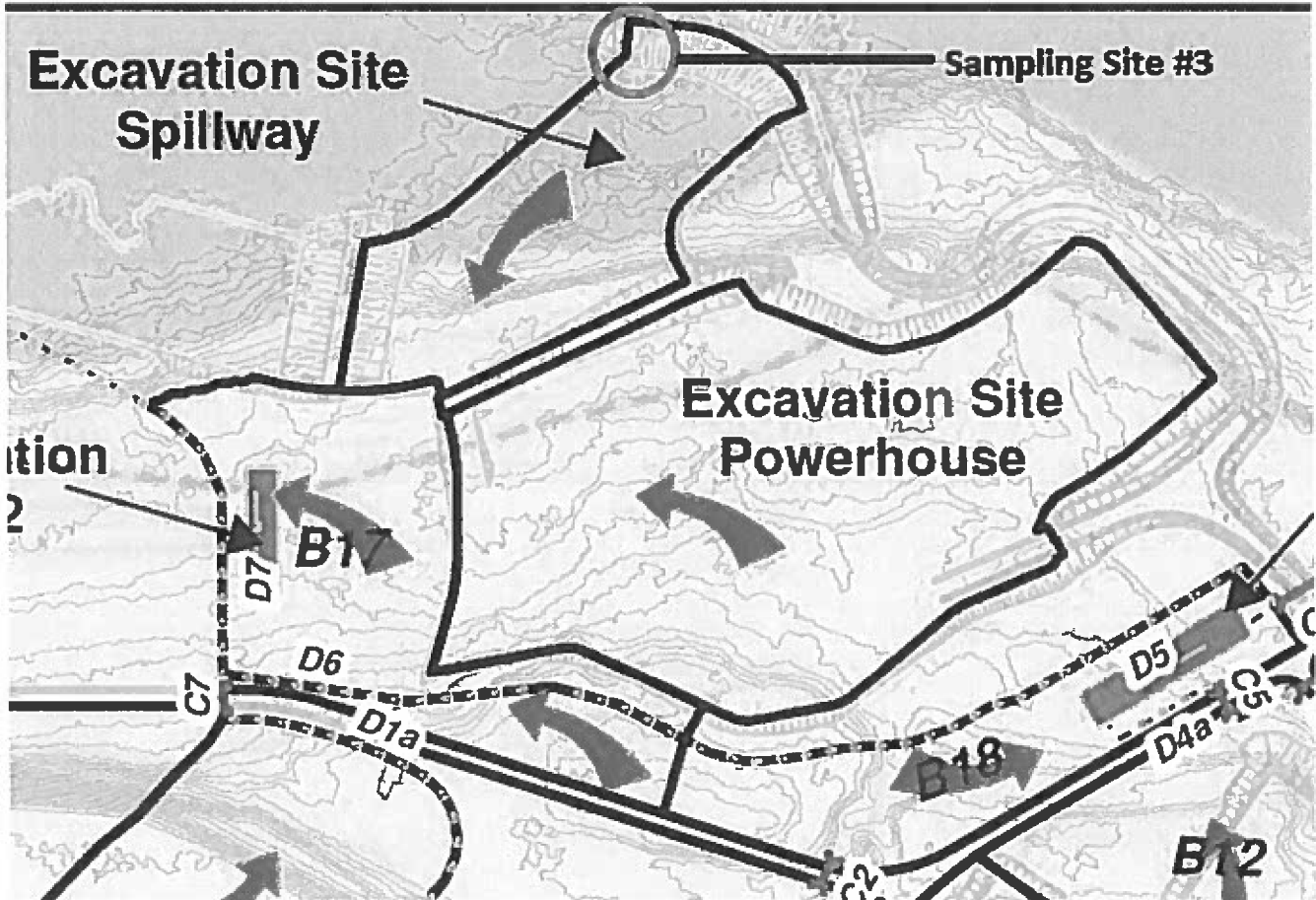
Site #	Location	Frequency	Parameters**
1	Outlet of ditch D8 or Sedimentation Pond #1*	Quarterly	Water chemistry, metals scan
2	Outlet of ditch D7 or Sedimentation Pond #2*	Quarterly	Water chemistry, metals scan
3	Outlet of Downstream Spillway	Quarterly	Water chemistry, metals scan

\* If no water present at the outlet of the ditch, the sample will be taken at the Sedimentation Pond for characterization.

\*\* See condition #17 for a list of required parameters.

The locations of Site #1, Site #2 and Site #3 are highlighted on the Location Maps for this Permit attached as Appendix C.

Fourth Attached Image File



- cc: Lindsay Richardson  
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