

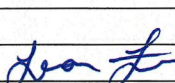
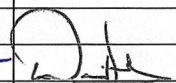

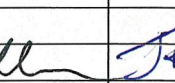
Nalcor Energy – Lower Churchill Project



2014 Wildlife Sightings Report for the Lower Churchill Project

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Inter-Departmental / Discipline Approval (Where Required)

Department	Department Manager Approval	Date
	n/a	

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1 PURPOSE

The purpose of this Wildlife Sightings Report is to provide an update to Newfoundland and Labrador Department of Environment and Conservation – Wildlife Division (NLDEC-WD) on wildlife sightings and interactions with the Lower Churchill Hydroelectric Generation Project (including Muskrat Falls Generation and Labrador Transmission Asset [LTA]) and the Labrador-Island Transmission Link for 2014. This is to comply with commitments made in various Protection and Environmental Effects Monitoring Plans (PEEMPs) for both Generation and Transmission. These reports include:

- L-ITL Furbearers and Small Mammals Protection and Environmental Effects Monitoring Plan
- L-ITL Caribou Protection and Environmental Effects Monitoring Plan
- LCP Black Bear Protection and Environmental Effects Monitoring Plan
- LCP Caribou Protection and Environmental Effects Monitoring Plan
- LCP Furbearers Protection and Environmental Effects Monitoring Plan
- LCP Moose Protection and Environmental Effects Monitoring Plan

2 SCOPE

As stated in the above listed PEEMPs, the On-Site Environmental Monitor (OSEM) is responsible for tracking wildlife sightings and encounters. Sightings, interactions and consequences that relate to furbearers, caribou, black bear and moose encounters during construction, have been recorded and are presented in a tabular format with the following information (as available):

- Date
- Time
- Location (utm or lats/longs)
- Interaction type – brief description of the type of interaction: sighting, human/animal conflict, vehicle/animal conflict
- Furbearer species details – sex, age, behavior at the time of the interaction
- Interaction details – explanation of the nature of the interaction

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- Issue resolution - explanation of the action(s) undertaken to resolve the interaction
- Interaction consequence – description of the outcome (animal was scared away; animal was killed)
- Additional actions undertaken – details of actions undertaken (e.g., no additional actions required; report sent to Wildlife Division) and notes on regulatory compliance

3 ABBREVIATIONS & ACRONYMS

EIS	Environmental Impact Statement
EMP	Environmental Management Plan
EPP	Environmental Protection Plan
IPD	Integrated Project Delivery
LCP	Lower Churchill Project
L-ITL	Labrador-Island Transmission Link
LTA	Labrador Transmission Asset
NE	Nalcor Energy
NL	Newfoundland and Labrador
NLDEC-WD	Newfoundland and Labrador Department of Environment and Conservation – Wildlife Division
OSEM	On-Site Environmental Monitor
PEEMP	Protection and Environmental Effects Monitoring Plan

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4 REFERENCE DOCUMENTS

ILK-PT-MD-0000-EV-PL-0005-01	L-ITL Furbearers and Small Mammals Protection and Environmental Effects Monitoring Plan
ILK-PT-MD-0000-EV-PL-0004-01	L-ITL Caribou Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0006-01	LCP Black Bear Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0005-01	LCP Caribou Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0016-01	LCP Furbearers Protection and Environmental Effects Monitoring Plan
LCP-PT-MD-0000-EV-PL-0012-01	LCP Moose Protection and Environmental Effects Monitoring Plan
LCP-PT-ED-0000-EA-SY-0001-01	Environmental Impact Statement and Supporting Documentation for the Lower Churchill Hydroelectric Generation Project
LCP-PT-ED-0000-EA-SY-0002-01	Environmental Impact Statement and Supporting Documentation for the Labrador-Island Transmission Link

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5 PROJECT DESCRIPTION

5.1 MUSKRAT FALLS GENERATION

The Muskrat Falls Generation Project will include the following sub-components, which are broken down under the five (5) principal areas of the development:

- 22 km of access roads, including upgrading and new construction, and temporary bridges;
- A 1,500 person accommodations complex (for the construction period);
- A north roller compacted concrete overflow dam;
- A south rock fill dam;
- River diversion during construction via the spillway;
- Five (5) vertical gate spillway;
- Reservoir preparation and reservoir clearing;
- Replacement fish and of terrestrial habitat;
- North spur stabilization works;
- A close coupled intake and powerhouse, including:
- Four (4) intakes with gates and trash racks;
- Four (4) turbine/generator units at approximately 206 MW each with associated ancillary electrical/mechanical and protection/control equipment;
- Five (5) power transformers (includes 1 spare), located on the draft tube deck of the powerhouse; and
- Two (2) overhead cranes each rated at 450 Tonnes

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Figure 5-1 Muskrat Falls Generating Facility

5.2 LABRADOR TRANSMISSION ASSET (LTA)

LTA consists of the ac transmission line system from Churchill Falls to Muskrat Falls (see Figure 5-2), specifically:

- Churchill Falls switchyard extension;
- Muskrat Falls switchyard;
- Transmission lines from Muskrat Falls to Churchill Falls: double-circuit 315 kV ac, 3 phase lines, double bundle conductor, Single circuit galvanized lattice steel guyed suspension and rigid angle towers; 247 km long; and
- 735 kV Transmission Line at Churchill Falls interconnecting the existing and the new Churchill Falls switchyards

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Figure 5-2 Labrador Transmission Asset

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5.3 LABRADOR-ISLAND TRANSMISSION LINK (LITL)

The Labrador –Island Transmission Link consists of the Construction and Operations of a ± 350 kilovolt (kV) High Voltage direct current (HVdc) electricity transmission system from Central Labrador to the Avalon Peninsula on the Island of Newfoundland (the Island) (Figure 5-3).

The transmission system will include the following key components:

- An alternating current (ac) to direct current (dc) converter station at Muskrat Falls;
- Approximately 400 km overhead HVdc transmission line from Muskrat Falls to Forteau Point;
- A 60 m wide Right Of Way (ROW);
- Three, approximately 35 km long, submarine cables across the Strait of Belle Isle (SOBI) (i.e., between Forteau Point and Shoal Cove), with associated onshore infrastructure (transition compounds and land cables at both cable landings);
- Approximately 700 km of overhead HVdc transmission line from Shoal Cove to the Avalon Peninsula;
- A dc to ac converter station at Soldiers Pond;
- Shoreline electrodes at L'Anse au Diable and Dowden's Point,
- An overhead, wood pole electrode line
 - Near Forteau Point and L'Anse au Diable; and
 - Between Soldiers Pond and Dowden's Point.

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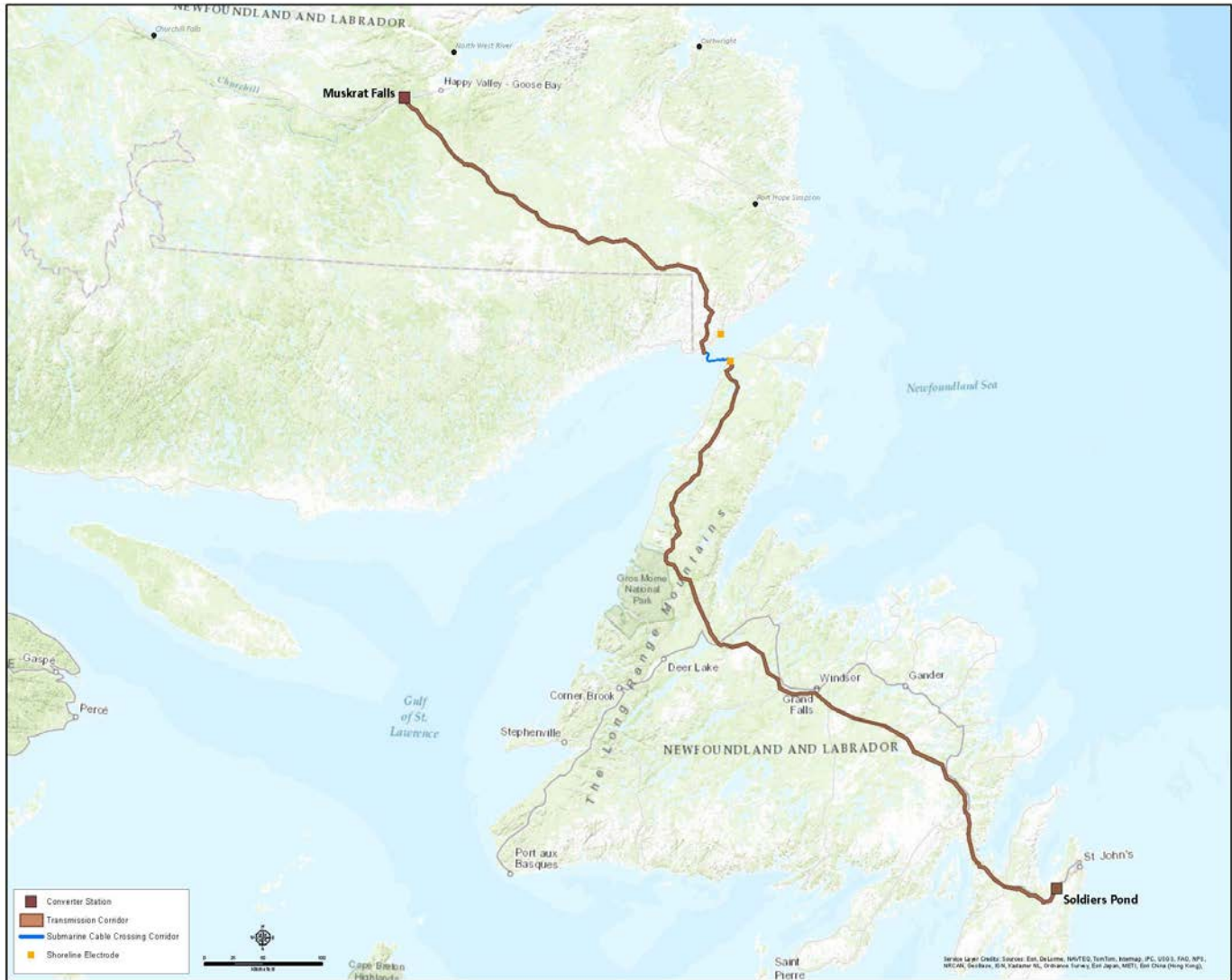


Figure 5-3 Labrador-Island Transmission Link

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6 WILDLIFE SIGHTINGS AND INTERACTIONS

6.1 MOOSE

6.1.1 Lower Churchill Hydroelectric Generation Project

There were nineteen (19) moose sightings for the Lower Churchill Hydroelectric Generation Project in 2014. One (1) interaction (moose-vehicle accident) resulted in mortality, and the incident was reported to the RCMP.

Table 6-1 Moose Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2014

Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
25-Apr-2014	Reservoir clearing	Winter access road on South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Observed on a daily basis
30-May-2014	Reservoir clearing	along TLH near JCL camp	n/a	n/a	n/a	n/a	No additional actions required	n/a
30-May-2014	HVac line	near Cache River Bridge	n/a	n/a	n/a	n/a	No additional actions required	n/a
6-Jun-2014	Reservoir clearing	Around work fronts and along TLH	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
6-Jun-2014	Hvac line	at Chainage KM12	n/a	n/a	n/a	n/a	No additional actions required	n/a
6-Jun-2014	Hvac line	at TLH 510 intersection	n/a	n/a	n/a	n/a	No additional actions required	n/a

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Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
6-Jun-2014	Hvac line	188 km east of Churchill Falls	n/a	n/a	Moose-vehicle accident. Vehicle braked to a near stop before hitting the moose.		Incident reported to the RCMP	n/a
29-Aug-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	multiple sightings
26-Sep-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	n/a
3-Oct-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
10-Oct-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	n/a
10-Oct-2014	Hvac line	n/a	n/a	n/a	n/a	n/a	No additional actions required	n/a
17-Oct-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
24-Oct-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings

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Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
14-Nov-2014	Reservoir clearing	near Edwards Brook	n/a	n/a	n/a	n/a	No additional actions required	n/a
21-Nov-2014	Reservoir clearing	various work fronts	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings reported during travels to various work fronts
28-Nov-2014	Reservoir clearing	various work fronts	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings reported during travels to various work fronts
5-Dec-2014	Reservoir clearing	various work fronts	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings reported during travels to various work fronts
19-Dec-2014	Reservoir clearing	various work fronts	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings reported during travels to various work fronts

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6.1.2 Labrador – Island Transmission Link

There were five (5) moose sightings for the Labrador-Island Transmission Link in 2014. No interaction resulted in mortality, and none required additional actions to be undertaken.

Table 6-2 Moose Sightings and Interactions for the Labrador-Island Transmission Link in 2014

Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
30-May-2014	Soldiers Pond	Soldiers pond substation and converter site	n/a	n/a	n/a	n/a	No additional actions required	Two moose frequenting site
20-Jun-2014	Soldiers Pond	Soldiers pond substation and converter site	n/a	n/a	n/a	n/a	No additional actions required	Two moose frequenting site
10-Oct-2014	HVdc line	on TLH Route 510	n/a	n/a	n/a	n/a	No additional actions required	n/a
17-Oct-2014	Hvdc line	at km 45 along the TLH (CT0327-010)	n/a	n/a	n/a	n/a	No additional actions required	n/a
17-Oct-2014	Hvdc line	Near Structure 542 (CT0327-011)	n/a	n/a	n/a	n/a	No additional actions required	n/a

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6.2 BLACK BEAR

6.2.1 Lower Churchill Hydroelectric Generation Project

There were twenty-two (22) black bear sightings for the Lower Churchill Hydroelectric Generation Project in 2014. One (1) event (bear was found to be injured) resulted in a mortality (euthanized by Wildlife Division), and one (1) resulted in relocation by the Department of Natural Resources.

Table 6-3 Black Bear Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2014

Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
30-May-2014	Reservoir clearing	Near Pinus River	n/a	n/a	n/a	n/a	No additional actions required	n/a
30-May-2014	Hvac line	along the Hvac ROW	n/a	n/a	n/a	n/a	No additional actions required	n/a
30-May-2014	Hvac line	near the access point for Valard Camp off the TLH	n/a	n/a	n/a	n/a	No additional actions required	Bear with three cubs
6-Jun-2014	Reservoir clearing	Around work fronts and along TLH	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
6-Jun-2014	Hvac line	along the Hvac ROW	n/a	n/a	n/a	n/a	No additional actions required	n/a
9-Jun-2014	Hvac line	At Chainage KM13	n/a	n/a	n/a	n/a	No additional actions required	n/a

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Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
13-Jun-2014	Hvac line	At chainage KM170+500	n/a	n/a	n/a	n/a	No additional actions required	Bear with three cubs
27-Jun-2014	Hvac line	Hvac ROW	n/a	n/a	n/a	n/a	No additional actions required	Several sightings
11-Jul-2014	Hvac line	Dump Road at chainage KM243+500	n/a	n/a	n/a	n/a	No additional actions required	Three bears sighted
11-Jul-2014	Hvac line	Churchill Falls Camp	n/a	Injured	n/a	n/a	Reported to Wildlife, who then shot it.	n/a
5-Sep-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Several sightings
12-Sep-2014	Intake and Powerhouse, Spillway and Transition Dams	near McKenzie River	n/a	n/a	n/a	n/a	No additional actions required	Bear with two cubs
12-Sep-2014	Reservoir clearing	West side of Lower Brook	n/a	n/a	n/a	n/a	No additional actions required	n/a
19-Sep-2014	Intake and Powerhouse, Spillway and Transition Dams	near McKenzie River	n/a	n/a	n/a	n/a	No additional actions required	Bear with two cubs

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Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
19-Sep-2014	Reservoir clearing	on TLH west of access road to camp	n/a	n/a	n/a	n/a	No additional actions required	n/a
19-Sep-2014	Hvac line	10 km east of Churchill Falls	n/a	n/a	n/a	n/a	No additional actions required	3 black bears
19-Sep-2014	Hvdc line	along HVdc access road	n/a	n/a	n/a	n/a	No additional actions required	Four bears sighted
26-Sep-2014	South Side Access Road	near McKenzie River	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings of bears
3-Oct-2014	South Side Access Road	near McKenzie River	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings of bears
3-Oct-2014	Reservoir clearing	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
10-Oct-2014	South Side Access Road	near Mckenzie River and Accomodations Complex	n/a	n/a	n/a	n/a	No additional actions required	Daily sightings of bears
17-Oct-2014	South Side Access Road	Near Accomodations Complex	n/a	n/a	n/a	n/a	Live trap set by Department of Natural Resources; bear caught and relocated on 18-Oct	Daily sightings of bears

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6.2.2 Labrador – Island Transmission Link

There were three (3) black bear sightings for the Labrador-Island Transmission Link in 2014. No interaction resulted in mortality, and none required additional actions to be undertaken.

Table 6-4 Black Bear Sightings and Interactions for the Labrador-Island Transmission Link in 2014

Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
10-Oct-2014	Hvdc line	Chainage KM4+100 of HVdc Forteau Access Road	n/a	n/a	n/a	n/a	No additional actions required	n/a
12-Oct-2014	Hvdc line	Chainage KM113+000 along TLH	n/a	n/a	n/a	n/a	No additional actions required	Sighted several days in a row
17-Oct-2014	Hvdc line	KM110	n/a	Young, tame, appears to be used to vehicles	n/a	n/a	No additional actions required	Sighted several days in a row

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6.3 FURBEARERS

6.3.1 Lower Churchill Hydroelectric Generation Project

There were twenty-five (25) furbearer sightings for the Lower Churchill Hydroelectric Generation Project in 2014: twelve (12) wolves, eleven (11) fox, one (1) beaver, and one (1) pine marten. No interactions resulted in mortality.

Table 6-5 Furbearer Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2014

Weekly Report Date	Project Component	Wildlife Observed	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
4-Apr-2014	Reservoir clearing	Wolf	near entrance to JCL Edwards Camp	n/a	n/a	n/a	n/a	No additional actions required	n/a
20-Jun-2014	Hvac line	Fox	Churchill Falls Switchyard	n/a	n/a	n/a	n/a	No additional actions required	Fox and four kits
4-Jul-2014	Hvac line	Beaver	Station at KM147+300 in watercourse WC-133a	n/a	n/a	Beaver Dam discovered	n/a	Buffer established.	n/a
29-Aug-2014	Hvac line	Wolf	Near Osprey Camp	n/a	Injured	n/a	n/a	No additional actions required	n/a
4-Sep-2014	Hvac line	Wolf	North Spur Road	n/a	n/a	n/a	n/a	No additional actions required	n/a

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Weekly Report Date	Project Component	Wildlife Observed	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
5-Sep-2014	Reservoir clearing	Wolf	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Several sightings
12-Sep-2014	Hvac line	Wolf	Osprey Camp	n/a	n/a	n/a	n/a	No additional actions required	n/a
12-Sep-2014	Hvac line	Wolf	Along TLH near Chainage KM29	n/a	large	n/a	n/a	No additional actions required	n/a
19-Sep-2014	Hvac line	Silver Fox	20 km east of Churchill Falls	n/a	n/a	n/a	n/a	No additional actions required	n/a
19-Sep-2014	Hvac line	Wolf	Along TLH	n/a	n/a	n/a	n/a	No additional actions required	Two wolves sighted
26-Sep-2014	Reservoir clearing	Wolf	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Pack of wolves
26-Sep-2014	Earthworks at Churchill Falls Switchyard	Wolf	Northwest side of switchyard	n/a	n/a	n/a	n/a	No additional actions required	n/a

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Weekly Report Date	Project Component	Wildlife Observed	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
26-Sep-2014	Earthworks at Churchill Falls Switchyard	Fox	On Mechanic Yard	n/a	n/a	n/a	n/a	No additional actions required	Two fox sighted
3-Oct-2014	Reservoir clearing	Wolf	South side of Churchill River	n/a	n/a	n/a	n/a	No additional actions required	Frequent sightings
3-Oct-2014	Hvac line	Fox	on TLH 2 km from Churchill Falls	n/a	n/a	n/a	n/a	No additional actions required	n/a
3-Oct-2014	Hvac line	Red Fox	at chainage KM217+750	n/a	n/a	n/a	n/a	No additional actions required	n/a
3-Oct-2014	Earthworks at Churchill Falls Switchyard	Fox	In the Mechanics yard	n/a	n/a	n/a	n/a	No additional actions required	Two fox sighted
10-Oct-2014	Hvac line	Silver Fox	n/a	n/a	n/a	n/a	n/a	No additional actions required	n/a
10-Oct-2014	Earthworks at Churchill Falls Switchyard	Fox	Near lunchroom	n/a	n/a	n/a	n/a	No additional actions required	n/a

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Weekly Report Date	Project Component	Wildlife Observed	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
17-Oct-2014	Earthworks at Churchill Falls Switchyard	Fox	Near lunchroom	n/a	n/a	n/a	n/a	No additional actions required	n/a
24-Oct-2014	South Side Access Road	Arctic fox	Spillway/Intake /Powerhouse area	n/a	n/a	Due to garbage being left around and improper storage	n/a	Addressed with contractor	n/a
31-Oct-2014	South Side Access Road	Arctic fox	Spillway/Intake /Powerhouse area	n/a	n/a	n/a	n/a	No additional actions required	n/a
31-Oct-2014	Reservoir clearing	Wolf	Near Lower Brook on TLH	n/a	n/a	n/a	n/a	No additional actions required	n/a
7-Nov-2014	Reservoir clearing	Wolf	Near Lower Brook on TLH	n/a	n/a	n/a	n/a	No additional actions required	n/a
14-Nov-2014	Reservoir clearing	Pine Marten	On access to south side clearing work front	n/a	n/a	n/a	n/a	No additional actions required	n/a

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6.3.2 Labrador – Island Transmission Link

There were three (3) furbearer sightings for the Labrador-Island Transmission Link in 2014: Two (2) fox and one (1) wolverine. No interaction resulted in mortality, and none required additional actions to be undertaken.

Table 6-6 Furbearer Sightings and Interactions for the Labrador-Island Transmission Link in 2014

Weekly Report Date	Project Component	Wildlife Observed	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
10-Oct-2014	Hvdc line	Red Fox	Chainage KM51+250 on ROW	n/a	n/a	n/a	n/a	No additional actions required	n/a
10-Oct-2014	Hvdc line	Silver Fox	at Station KM125 on HVdc ROW	n/a	n/a	n/a	n/a	No additional actions required	n/a
5-Dec-2014	Hvdc line	Wolverine	[REDACTED]	n/a	n/a	n/a	n/a	No additional actions required	n/a

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6.4 CARIBOU

6.4.1 Lower Churchill Hydroelectric Generation Project

There was one (1) caribou sighting for the Lower Churchill Hydroelectric Generation Project in 2014. No additional actions were required for this sighting.

Table 6-7 Caribou Sightings and Interactions for the Lower Churchill Hydroelectric Generation Project in 2014

Date	Project Component	Location	Coordinates	Species Details	Interaction Details	Interaction Consequence	Additional actions undertaken	Notes
24-Oct-2014	Hvac line	[REDACTED]	n/a	n/a	n/a	n/a	No additional actions required	Red Wine Caribou

6.4.2 Labrador – Island Transmission Link

There were no caribou sighted along the LITL in 2014.