

1 **Exhibit #** _____
2 **Transcript Page #** 1470 -1474 and 1479 to 1480
3 **Requested By:** Mr Gibbons/ Mr. Kaplan
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6 **Manitoba Hydro Undertaking**
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8 Routing through Tom Lamb Wildlife Management area
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10 **Response:**
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12
13 If the route was to be adjusted in the Ralls Island area, preliminary analysis suggests that:
14

- 15 - There would be 3 less private landowners affected and 7 less Crown lease parcels
16 affected by crossing the Saskatchewan River into the Tom Lamb Wildlife
17 Management area south of the Joyal property on Ralls Island.
- 18 - The new route would result in an additional 8 - 10 km of routing through the Tom
19 Lamb WMA.
- 20 - The reduction in compensation paid for not routing in Ralls Island would be
21 approximately \$80,000. The increase in easement payment to the Crown in Tom
22 Lamb would be approximately \$5000 for 8 km of additional route length.
- 23 - Additional compensation or mitigation may be required for routing in the WMA
24 depending upon Manitoba Conservation's review and acceptance.
- 25 - Additional environmental assessment would be required, as well as additional
26 consultation – very roughly estimated to be in the range of \$100,000.
- 27 - Additional angle structures may be required to deal with larger water bodies in the
28 Tom Lamb WMA – each angle tower is 4 times more costly than a regular tower.
- 29 - There would be potential adjustments to trappers compensation.
- 30 - The routing would be approximately neutral in terms of additional overall line
31 length for the change.
32

33 Initial constraint criteria was to avoid WMAs to the extent possible in order to protect
34 wildlife and conservation values.
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1 **Exhibit # _____**
2 **Transcript Page # 1931**
3 **Requested By: Mr. Gibbons - CEC**

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6 **Manitoba Hydro Undertaking**

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8 Are farmers susceptible to actions by the government if additional work around the towers
9 causing over-application of manure?

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11
12 **Response:**

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14 Manitoba Hydro enquired with the Environmental Approvals Branch regarding the
15 regulatory implications. The following response was provided from the Livestock Section of
16 Manitoba Conservation and Water Stewardship:

17
18 “Hydro transmission towers would be no different than other obstructions in the
19 field. However many manure applicators have GIS technology which is used to avoid
20 over-application of manure. During the audit, staff request the livestock operator to
21 provide information to staff on known obstructions. As they are interested in
22 obtaining a representative sample, our staff would avoid areas directly adjacent to
23 such structures during the audit.”
24
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1 **Exhibit #** _____
2 **Transcript Page # 3198**
3 **Requested By: Mr. Meronek**

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6 **Manitoba Hydro Undertaking**

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8 What similar projects were reviewed in the identification of the Valued Environmental
9 Components?

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11 **Response:**

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13 A list of other projects considered by one or more of the experts when identifying VECs
14 includes the following projects:

- 15
16
- 17 • Wuskwatim Generation Project, MB
 - 18 • Wuskwatim Transmission Project, MB
 - 19 • Dorsey to Portage South Transmission Line Project, MB
 - 20 • Keeyask Generation Project, MB
 - 21 • Keeyask Infrastructure Project, MB
 - 22 • Point du Bois Modernization Project, MB
 - 23 • Northwest Angle Distribution Line, MB
 - 24 • Northwest Transmission Line Project, BC
 - 25 • Poplar River to Pasqua Transmission Line Project, SK
 - 26 • Montana Alberta Tie Ltd 230 kV Transmission Line, Montana
 - 27 • Keystone XL Pipeline Project, TransCanada, AB, SK, MB
 - 28 • Dunvegan Hydroelectric Project, AB
 - 29 • Kemess Mine Expansion, BC
 - 30 • Eastmain1A and Rupert River Diversion Hydropower Project, QC
 - 31 • CFB Suffield National Wildlife Area Shallow Gas Infill Development Project, AB
 - 32 • Nose Hill Park Cross Park Pathway Biophysical Impact Assessment, AB
 - 33 • Enbridge Alberta Clipper Petroleum Pipeline and Related Projects, AB
 - 34 • Merritt Area Transmission Project Environmental Overview Assessment, BC
- 35
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1 **Exhibit #** _____
2 **Transcript Page #** 3402 - 3407
3 **Requested By:** Mr. Madden
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6 **Manitoba Hydro Undertaking**
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8 Why was an opportunity not provided to the Manitoba Metis Federation to collect Metis
9 specific data in the baseline? Was direction given not to collect Metis specific data? Why
10 was that information not collected? Why did MMM make that choice?
11

12 **Response:**
13

14 On May 27, 2010, Manitoba Hydro accepted a work plan submitted by the Manitoba Metis
15 Federation, the stated purposes of which included “the identification of Metis interests and
16 concerns in the potentially affected areas, the traditional uses by the Metis along the Project’s
17 prospective routes, [and] the potential impacts on the present use of the lands by Metis in the
18 Project’s Study Area”. Manitoba Hydro expected that the reports to be submitted by the
19 Manitoba Metis Federation would include baseline data to support the identification of Metis
20 interests and traditional uses in the Project’s study area. No persons were instructed by
21 Manitoba Hydro “not” to collect specific data on the Metis. MMM Group and, latterly,
22 Intergroup were contracted by Manitoba Hydro to do the socio-economic work required by
23 the Scoping Document. The Scoping Document did not include a requirement that there be a
24 specific description of the Metis population in the study area and, accordingly, that
25 information was not provided by MMM Group nor by Intergroup. Again, to the extent that it
26 was considered important, it was understood that the Manitoba Metis Federation would be
27 providing it in its reports.
28
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1 **Exhibit #** _____
2 **Transcript Page #** 3451
3 **Requested By:** Mr. Madden

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6 **Manitoba Hydro Undertaking**

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8 Did the Crown provide direction to Manitoba Hydro to engage with the MMF?

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10 **Response:**

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12 No such direction was provided.

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1 **Exhibit #** _____
2 **Transcript Page # 4193**
3 **Requested By: Mr. Williams**

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6 **Manitoba Hydro Undertaking**

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8 Bibliography of Masters and PhD studies on vegetative management

9
10
11 **Response:**

- 12
13 1. Allelopathic Control of Trees Along Hydroelectric Transmission Line Rights of Way
14 – 1994 Report
15 By John P. Morgan B.Sc. (Hons.),M.N.R.M & Jacqueline D. Durant; November,
16 1994
17
18 2. Allelopathic Control of Trees Along Hydroelectric Transmission Line Rights of Way
19 By John P. Morgan B.Sc. (Hons.),M.N.R.M & Carol L. Morgan; February 17, 1994
20
21 3. Allelopathic Control of Trees Along Hydroelectric Transmission Line Rights of Way
22 – 1995 Final Report
23 By John P. Morgan B.Sc. (Hons.),M.N.R.M & Jacqueline D. Thompson; February,
24 1996
25
26 4. Allelopathic Control of Trees on Hydroelectric Rights-of-Way:
27 Field Testing Potential Native Species, Traditional and Alternative Vegetation
28 Management Techniques
29 By Jacqueline D. Thompson & John P. Morgan B.Sc. (Hons.),M.N.R.M, December 5,
30 1996
31
32 5. CEA No. ST-173C.
33 Control of Right-Of-Way Vegetation by Fire
34 By John P. Morgan B.Sc. (Hons.),M.N.R.M & David Gylywoychuk, February 1,
35 1993
36
37 6. A Model for Predicting Boreal Vegetation Dynamics and Management Requirements
38 on Electric Transmission Right-of-Ways, Interlake Region, Manitoba
39 By Dr. David John Walker; May 24, 1994
40

- 1
- 2 7. An Investigation of Plant Community Development Following Selective Herbicide
- 3 Application and Re-Treatment to the Eriksdale – Silver Powerline Right-of-Way
- 4 By Robert L. Geier MSc, 1996
- 5
- 6 8. Native Prairie Restoration Along Transmission Line Corridors in Southern Manitoba:
- 7 A Planning Framework
- 8 By Cameron William Faminow M.N.R.M., April, 1993
- 9
- 10 9. Secondary Effects of Tordon 101 Application on Peatlands: Preliminary Report
- 11 By John M. Stewart
- 12
- 13 10. The Effects Of Picloram (Tordon Series) and Line Maintenance on Ectomycorrhizal
- 14 Fungi Associated with Spruce, Picea Mariana (Mill.) B.S.P., Jack Pine, Pinus
- 15 Banksiana Lamb. And Tamarack, Larix Laricina (Du Roi) Koch Within Hydro
- 16 Transmission Corridors of Manitoba
- 17 By Suzanne M. Diamond M.Sc., 1993
- 18
- 19 11. Floristic Variation Along The HVDC Transmission Line Right-Of-Way in Manitoba
- 20 By Patricia MacLellan M.Sc., February, 1982

1 **Exhibit #** _____
2 **Transcript Page # 5799**
3 **Requested By: Mr. Gibbons**

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6 **Manitoba Hydro Undertaking**

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8 If borrow pits are no longer being used, how are they rehabilitated and how long does it take
9 to bring them to an acceptable condition?

10
11 **Response:**

12
13 A rehabilitation plan will be developed for the quarry and borrow pits utilized for the project.
14 Manitoba Hydro will submit the plan to the Province for review.

15
16 When opening a borrow pit or quarry, organic material, topsoil and subsoil is stripped and
17 piled separately for future site rehabilitation.

18
19 Once the borrow pit or quarry is no longer being used, it will be closed and measures taken
20 so that it is safe, environmentally stable, and compatible with adjoining lands. The closure of
21 a quarry or borrow pit can be typically be completed within one year and typically includes:

- 22 - Removal of all construction and solid waste, structures, material and equipment;
23 - Landscaping to promote drainage;
24 - Grading of slopes to 4:1 (horizontal:vertical); and
25 - Spreading previously stockpiled organic material to encourage re-growth of native
26 vegetation and reduce the risk of invasive plant spread.

27
28 Further rehabilitation of the borrow and quarry sites will likely include re-vegetation with
29 native species.

30
31 As indicated above, it will typically take approximately one year to rehabilitate the borrow
32 pit or quarry to a condition that is safe, environmentally stable, and compatible with
33 adjoining lands. Establishment of vegetation to pre-disturbed conditions can take several
34 years.
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Exhibit # _____ Transcript Page # 5818 Requested By: Ms. MacKay
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Manitoba Hydro Undertaking

Please review and comment on Mr. Osler's response relating to climate change and deer movements northward.

Response:

Mr. Osler's response was appropriate. The rate at which deer will extend their northern extent as a result of climate change is uncertain and hypothetical. If climate change occurs, the Bipole III Project would not be a contributing factor in this northern range extension. Also see IR CEC/MH-III-105 for a historical description of deer range in Manitoba.

1 **Exhibit #** _____
2 **Transcript Page #** 5848
3 **Requested By:** Mr. Sargeant

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6 **Manitoba Hydro Undertaking**

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8 Number of housing units to be developed in Gillam.

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10 **Response:**

11
12 The first subdivision is approximately 70 lots. The land use planning committee which
13 consists of the Town of Gillam, Fox Lake Cree Nation and Manitoba Hydro are jointly
14 working on this.

15
16 The other areas are not yet identified. The number of subdivisions required and the number
17 of lots per subdivision has also not yet been ascertained. This is dependent on location and
18 terrain (there is a lot of bog). Over the next 20 years, Manitoba Hydro believes it will require
19 approximately 180 and it has been identified that Fox Lake will require from 150 to 200 over
20 the next 20 years. The Town of Gillam has indicated it requires around 100 including a new
21 trailer Court. There are, of course, many variables that may affect these figures, such as
22 stakeholder needs, location, terrain, development costs, and required changes to the water
23 and sewer infrastructure.

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1 **Exhibit # _____**
2 **Transcript Page # 5850**
3 **Requested By: Mr. Sargeant**

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6 **Manitoba Hydro Undertaking**

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8 Percentage of access to the line monitored that is non-construction related.

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10 **Response:**

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12 Construction and non-construction related access monitoring was undertaken to provide a
13 predictable measure of potential traffic on the new ROW, once established. Access
14 monitoring was initiated in 2006/07 along the Birchtree to Wuskwatim transmission segment
15 with the use of infrared sensors. The 2007/08 access monitoring program for this segment
16 shifted to the use of trail cameras to provide more detailed and reliable recording results. The
17 trail cameras were strategically placed at points to capture all incoming and out-going traffic
18 along the ROW.

19
20 Access monitoring for the Thompson-Birchtree to Wuskwatim line segment (in close
21 proximity to the city of Thompson) in 2006/07 and in 2007/08 recorded travel of 40 and 68
22 trips per day on average for each year respectively. Note that the first year was limited
23 primarily to clearing activities. Virtually all traffic was recorded as being construction
24 related. In the construction year 2007/08, the average recorded daily number of trips on the
25 transmission line ROW for the Wuskwatim to Herblet Lake was 44. The majority of these
26 trips were also construction related.

27
28 The peak periods of travel were recorded in the early morning and the evening, which
29 reflected traffic associated with ferrying workers to and from the construction site. The
30 highest traffic days, which ranged from 99 to 154 trips per day, occurred in late February.
31 This also reflected and was consistent with the peak construction period for those
32 construction years.

33
34 The results of the access monitoring indicate that:

- 35
- 36 • Traffic along the ROW was approximately 99.5% construction related and 0.5 % non-
 - 37 construction related; non-construction related traffic included sight-seers and fuel
 - 38 wood gatherers;
 - 39 • Traffic along the ROW occurred primarily in the winter, with traffic levels peaking in
 - 40 late February;
 - 41 • Due to terrain conditions, traffic down the ROW was very limited in volume and
 - 42 extent during non-frozen ground conditions;
 - 43 • Non-winter related traffic was limited to short distances from access points where
 - 44 existing infrastructure intersected the ROW;
 - 45 • Extreme cold weather conditions further restricted non-construction related winter
 - 46 traffic.