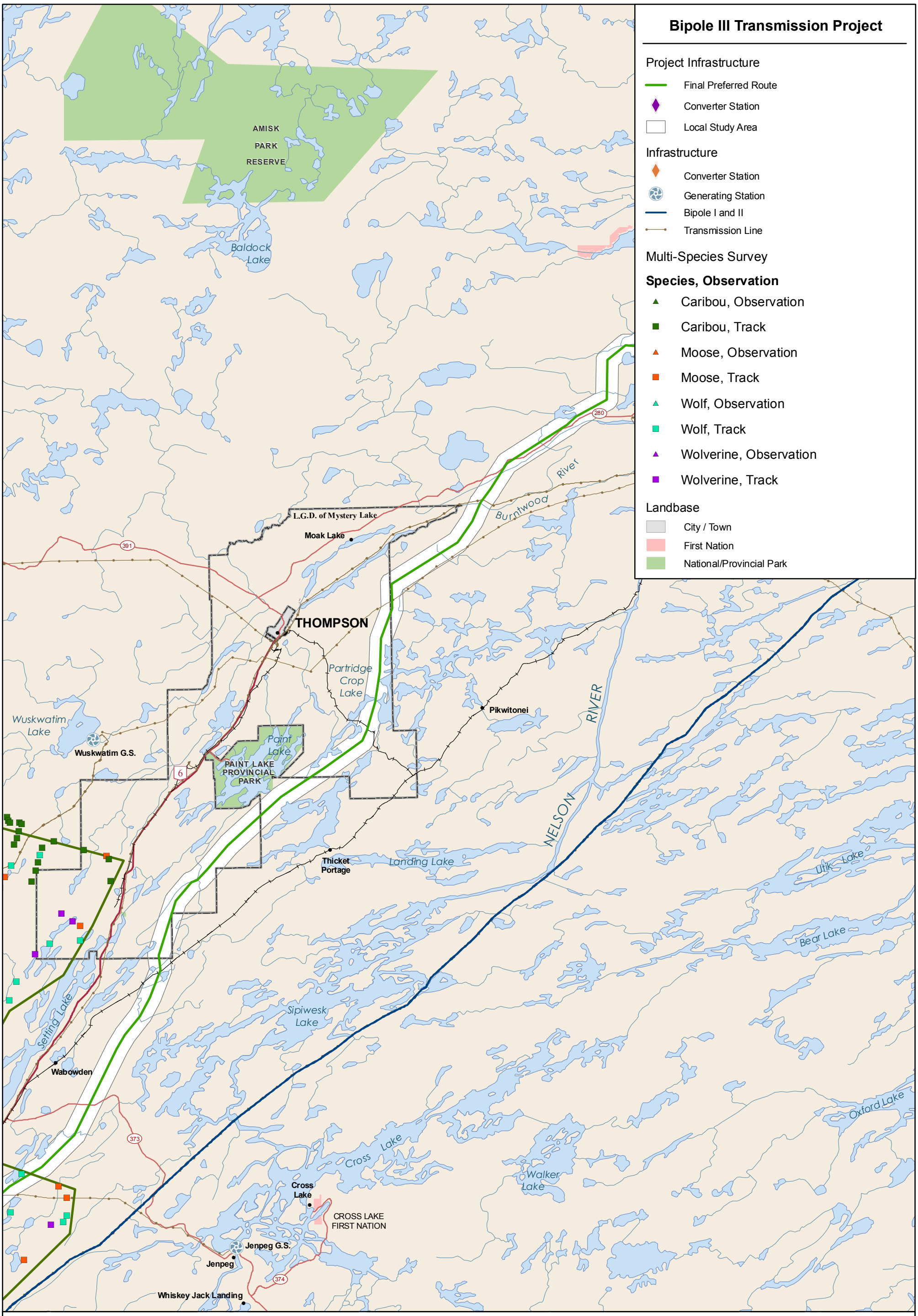
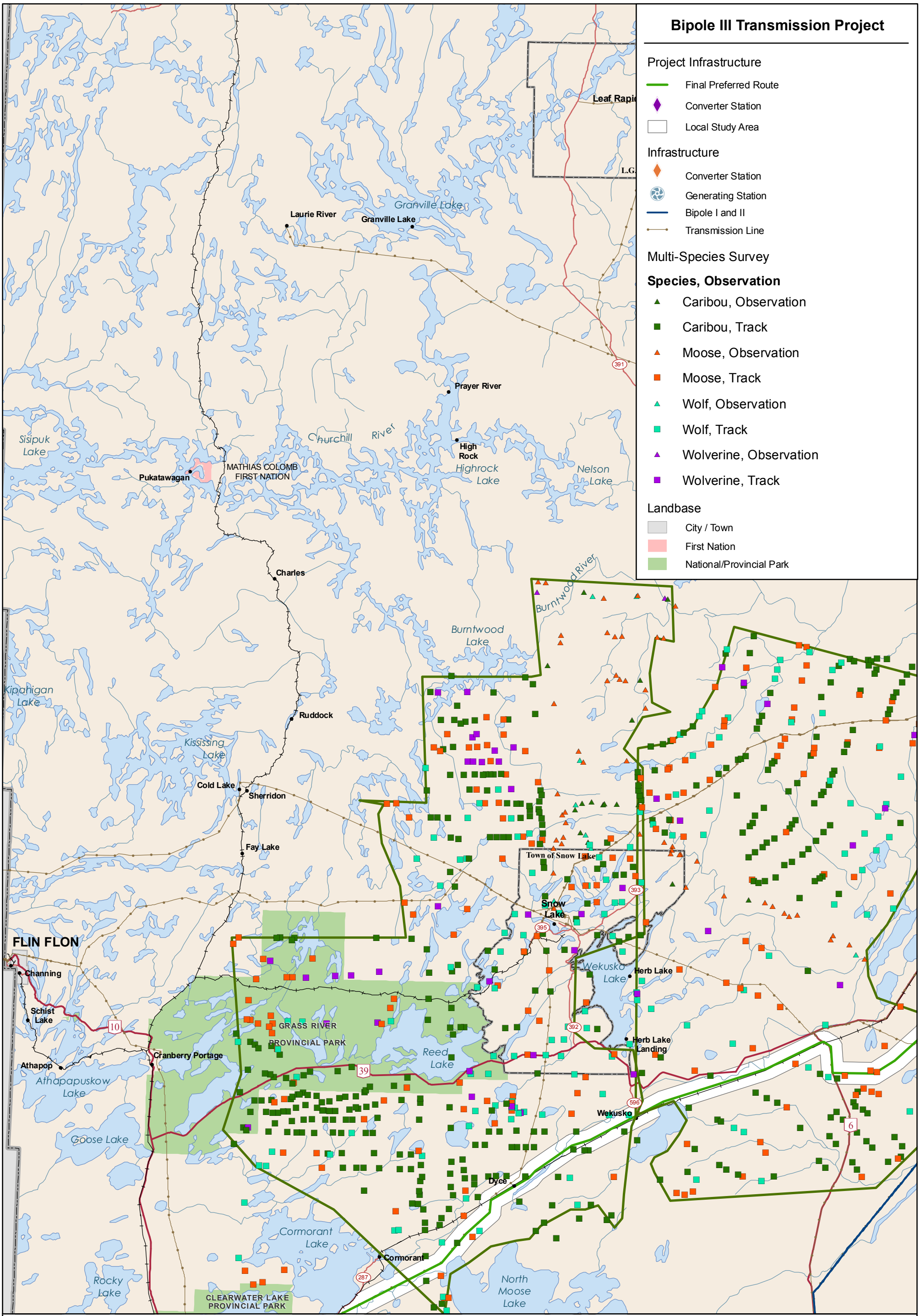
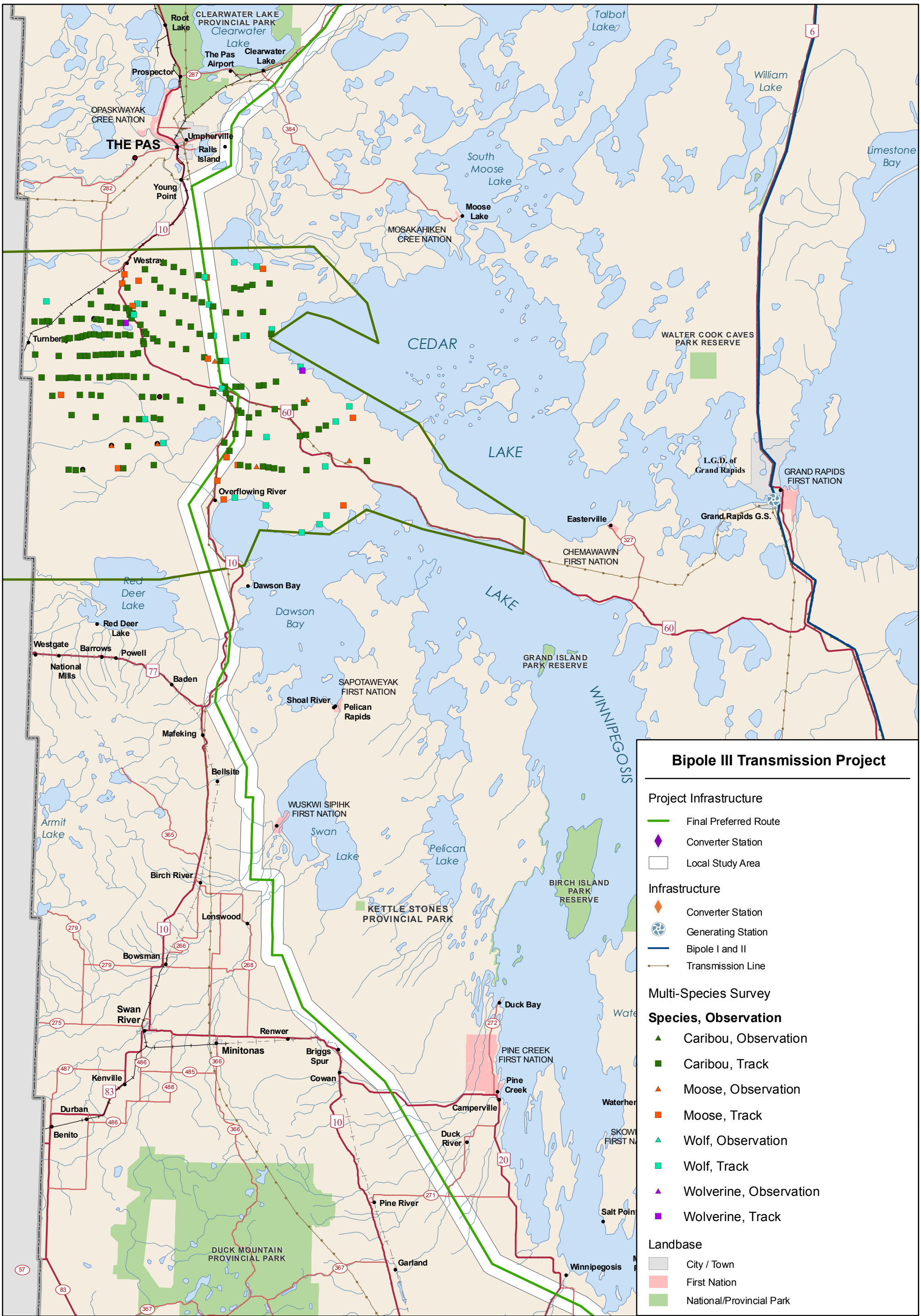
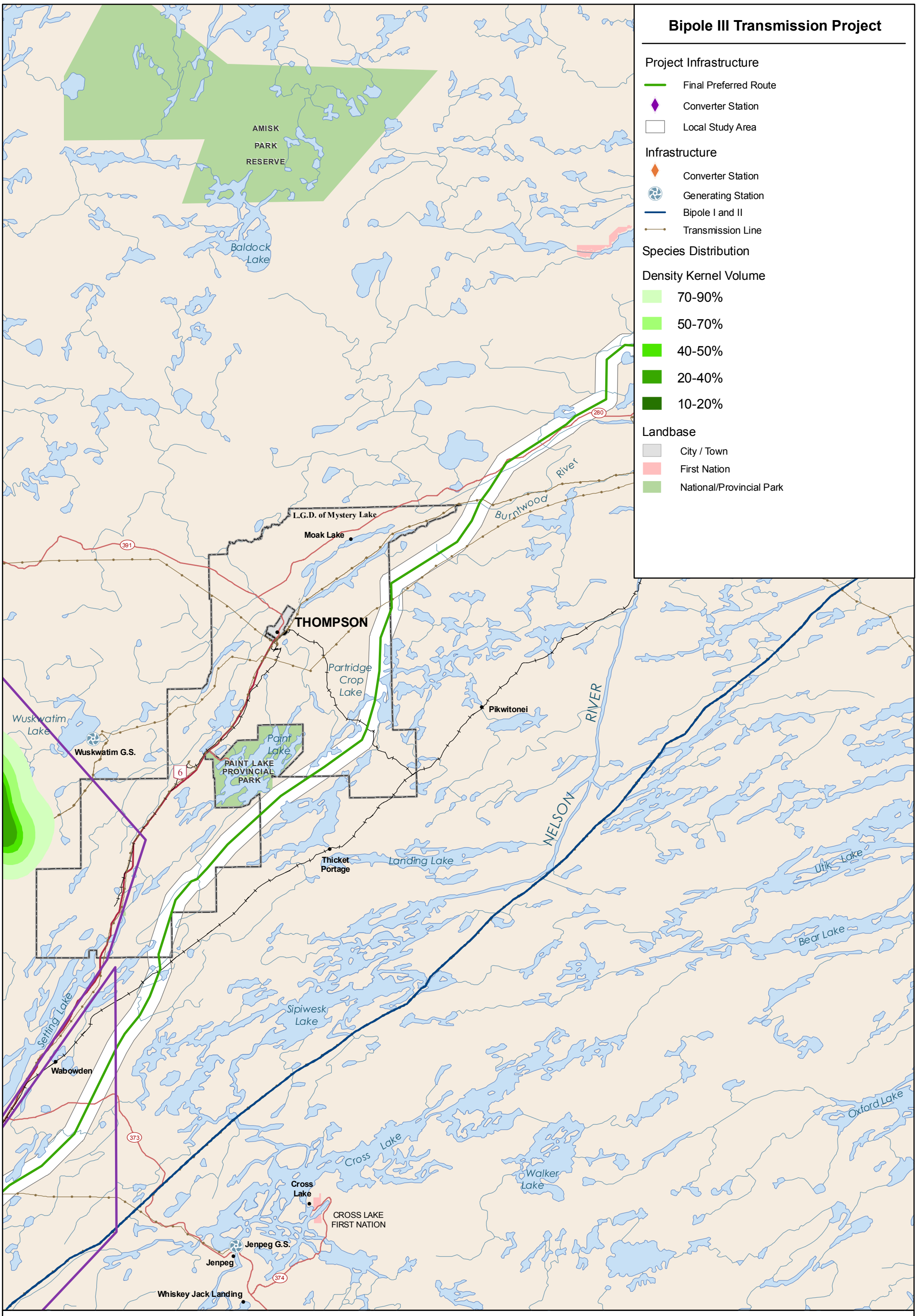

Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
Transmission Line
Multi-Species Survey
Species, Observation
Caribou, Observation
Caribou, Track
Moose, Observation
Moose, Track
Wolf, Observation
Wolf, Track
Wolverine, Observation
Wolverine, Track
Landbase
City / Town
First Nation
National/Provincial Park
AMISK PARK RESERVE
Baldock Lake
L.G.D. of Mystery Lake
Moak Lake
THOMPSON
Burntwood River
Partridge Crop Lake
Pikwitonei
NELSON RIVER
Wuskwatim Lake
Wuskwatim G.S.
Paint Lake
PAINT LAKE PROVINCIAL PARK
Thicket Portage
Landing Lake
Utik Lake
Bear Lake
Setting Lake
Sipiwesk Lake
Wabowden
Oxford Lake
Cross Lake
Walker Lake
Cross Lake
CROSS LAKE FIRST NATION
Jenpeg G.S.
Jenpeg
Whiskey Jack Landing
280
391
6
373
374
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011
0 6 12 Kilometres
0 6 12 Miles
N
1:750,000
Results of 2010 Multispecies Surveys
Observations and Tracks of Caribou, Moose, Wolf, and Wolverine
Map 500-02


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
Transmission Line
Multi-Species Survey
Species, Observation
Caribou, Observation
Caribou, Track
Moose, Observation
Moose, Track
Wolf, Observation
Wolf, Track
Wolverine, Observation
Wolverine, Track
Landbase
City / Town
First Nation
National/Provincial Park
Leaf Rapid
L.G.
Granville Lake
Laurie River
Granville Lake
Prayer River
Churchill River
High Rock
Highrock Lake
Nelson Lake
Sisipuk Lake
Pukatawagan
MATHIAS COLOMB FIRST NATION
Charles
Burntwood River
Burntwood Lake
Kipahigan Lake
Ruddock
Kississing Lake
Cold Lake
Sherridon
Fay Lake
Town of Snow Lake
Snow Lake
FLIN FLON
Channing
Schist Lake
Wekusko Lake
Herb Lake
GRASS RIVER PROVINCIAL PARK
Reed Lake
Herb Lake Landing
Athapop
Cranberry Portage
Athapapuskow Lake
Wekusko
Goose Lake
Dyce
Cormorant Lake
Cormorant
Rocky Lake
CLEARWATER LAKE PROVINCIAL PARK
North Moose Lake
10
39
391
393
395
392
596
287
6
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011
0 6 12 Kilometres
0 6 12 Miles
N
1:750,000
Results of 2010 Multispecies Surveys
Observations and Tracks of Caribou, Moose, Wolf, and Wolverine
Map 500-03


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
Transmission Line
Multi-Species Survey
Species, Observation
Caribou, Observation
Caribou, Track
Moose, Observation
Moose, Track
Wolf, Observation
Wolf, Track
Wolverine, Observation
Wolverine, Track
Landbase
City / Town
First Nation
National/Provincial Park
CLEARWATER LAKE PROVINCIAL PARK
Clearwater Lake
Root Lake
The Pas Airport
Clearwater Lake
Prospector
OPASKWAYAK CREE NATION
THE PAS
Umpherville
Ralls Island
Young Point
Westray
Turnberry
Overflowing River
Dawson Bay
Red Deer Lake
Red Deer Lake
Westgate
Barrows
Powell
National Mills
Baden
Mafeking
Bellsite
Armit Lake
Birch River
Lenswood
Bowsman
Swan River
Renwer
Minitonas
Briggs Spur
Cowan
Kenville
Durban
Benito
DUCK MOUNTAIN PROVINCIAL PARK
Pine River
Garland
Duck River
Camperville
Pine Creek
PINE CREEK FIRST NATION
Duck Bay
Winnipegosis
Salt Point
Waterhen
SKOWKEGAN FIRST NATION
Pelican Lake
BIRCH ISLAND PARK RESERVE
GRAND ISLAND PARK RESERVE
WINNIPEGOSIS
LAKE
Swan Lake
WUSKWI SIPIHK FIRST NATION
KETTLE STONES PROVINCIAL PARK
SAPOTAWEYAK FIRST NATION
Shoal River
Pelican Rapids
CHEMAWAWIN FIRST NATION
Easterville
Grand Rapids G.S.
L.G.D. of Grand Rapids
GRAND RAPIDS FIRST NATION
WALTER COOK CAVES PARK RESERVE
CEDAR
LAKE
South Moose Lake
Moose Lake
MOSAKAHIKEN CREE NATION
Talbot Lake
William Lake
Limestone Bay
6
10
60
77
83
20
57
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011
0 6 12 Kilometres
0 6 12 Miles
1:750,000
N
Manitoba Hydro
Results of 2010 Multispecies Surveys
Observations and Tracks of Caribou, Moose, Wolf, and Wolverine
Map 500-04



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

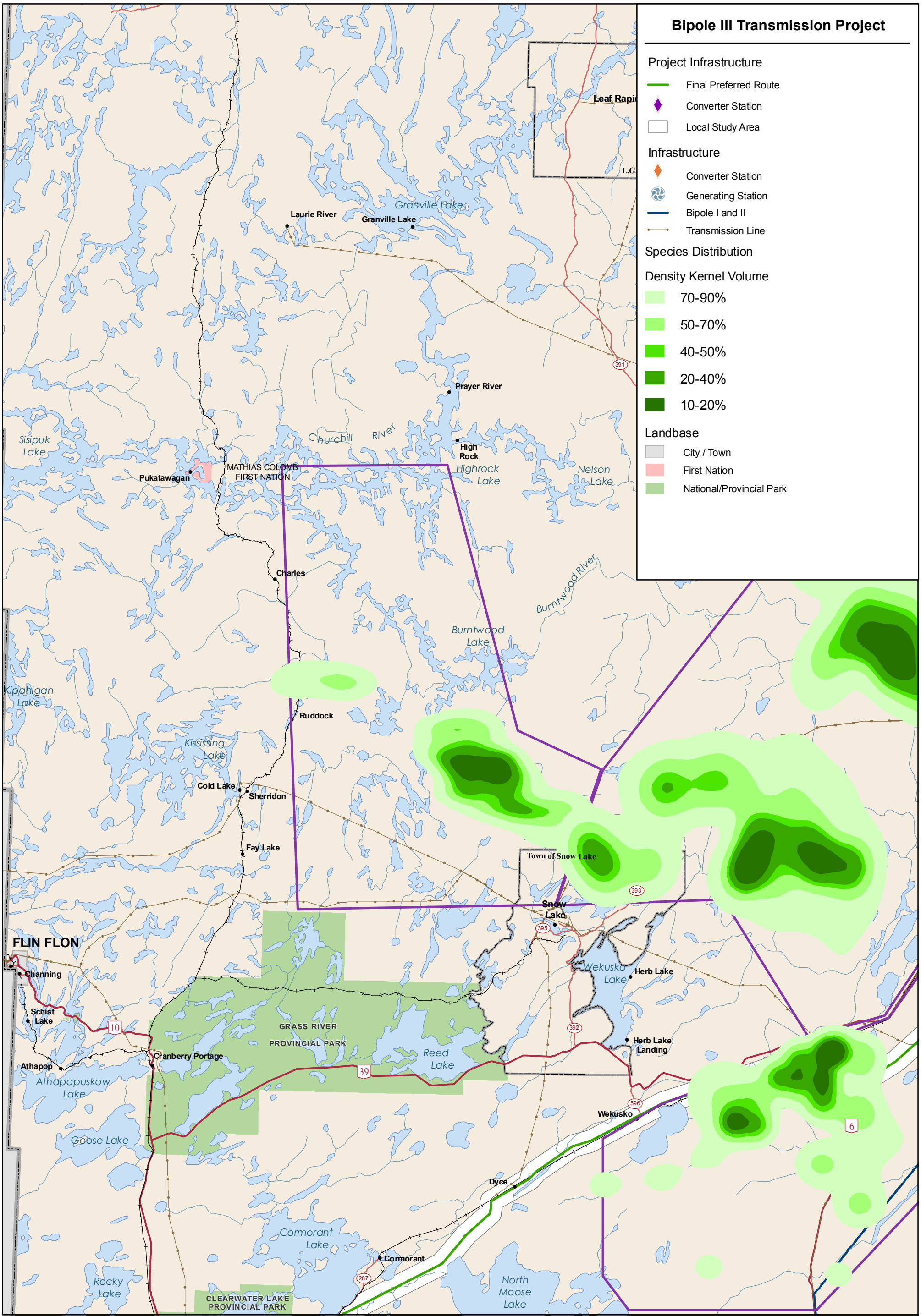
N

1:750,000

Density Kernel Estimate of Caribou

From Multispecies Aerial Survey

Map 600-02



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

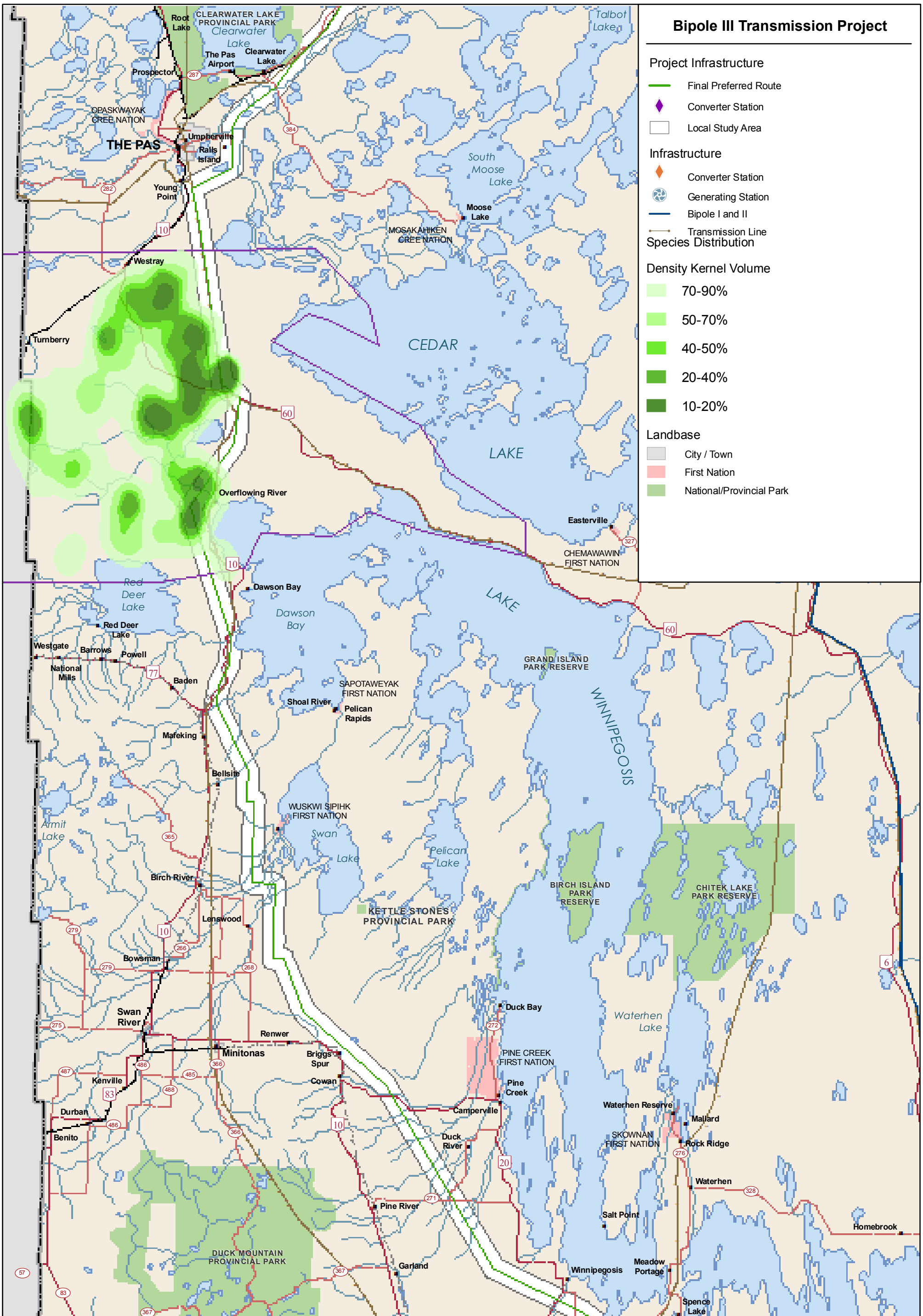
N

1:750,000

Density Kernel Estimate of Caribou

From Multispecies Aerial Survey

Map 600-03


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
Transmission Line
Species Distribution
Density Kernel Volume
70-90%
50-70%
40-50%
20-40%
10-20%
Landbase
City / Town
First Nation
National/Provincial Park
CLEARWATER LAKE PROVINCIAL PARK
Clearwater Lake
Root Lake
The Pas Airport
Clearwater Lake
Prospector
OPASKWAYAK CREE NATION
THE PAS
Umpherville
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Young Point
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Red Deer Lake
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Powell
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Mafeking
Bellsite
Armit Lake
Birch River
Lenswood
Bowsman
Swan River
Renwer
Minitonas
Briggs Spur
Cowan
Kenville
Durban
Benito
DUCK MOUNTAIN PROVINCIAL PARK
Pine River
Garland
Duck River
Camperville
Pine Creek
PINE CREEK FIRST NATION
Duck Bay
Waterhen Lake
Winnipegosis
Meadow Portage
Salt Point
Waterhen
Homebrook
Spence Lake
Rock Ridge
Mallard
Waterhen Reserve
SKOWNAN FIRST NATION
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LAKE
CEDAR
LAKE
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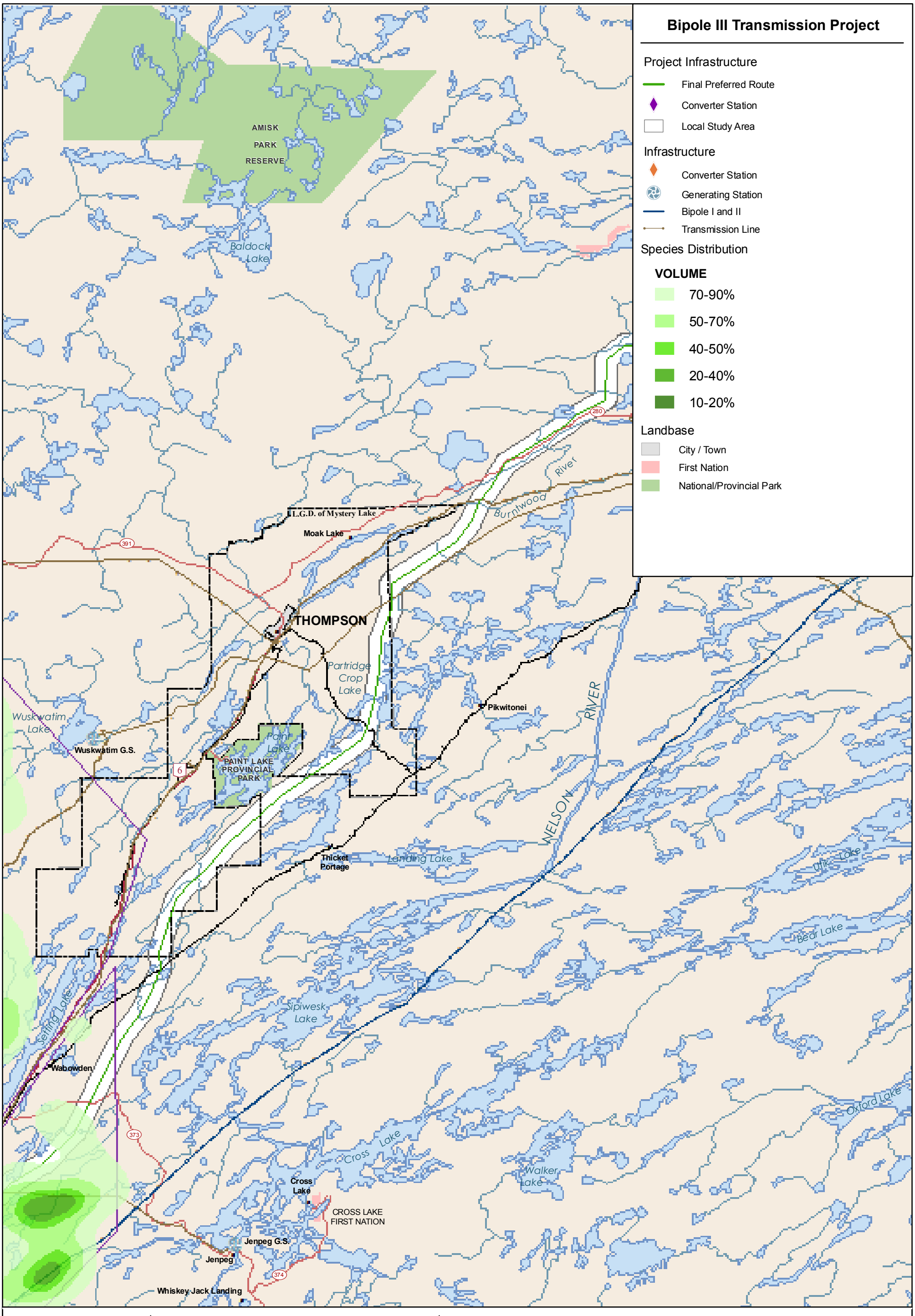
MOSAKAHIKEN CREE NATION
Talbot Lake
Easterville
CHEMAWAWIN FIRST NATION
GRAND ISLAND PARK RESERVE
SAPOTAWEYAK FIRST NATION
Shoal River
Pelican Rapids
WUSKWI SIPIHK FIRST NATION
Swan Lake
Pelican Lake
KETTLE STONES PROVINCIAL PARK
BIRCH ISLAND PARK RESERVE
CHITEK LAKE PARK RESERVE
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011
0 6 12 Kilometres
0 6 12 Miles
N
1:750,000
Manitoba Hydro
Density Kernel Estimate of Caribou
From Multispecies Aerial Survey
Map 600-04



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

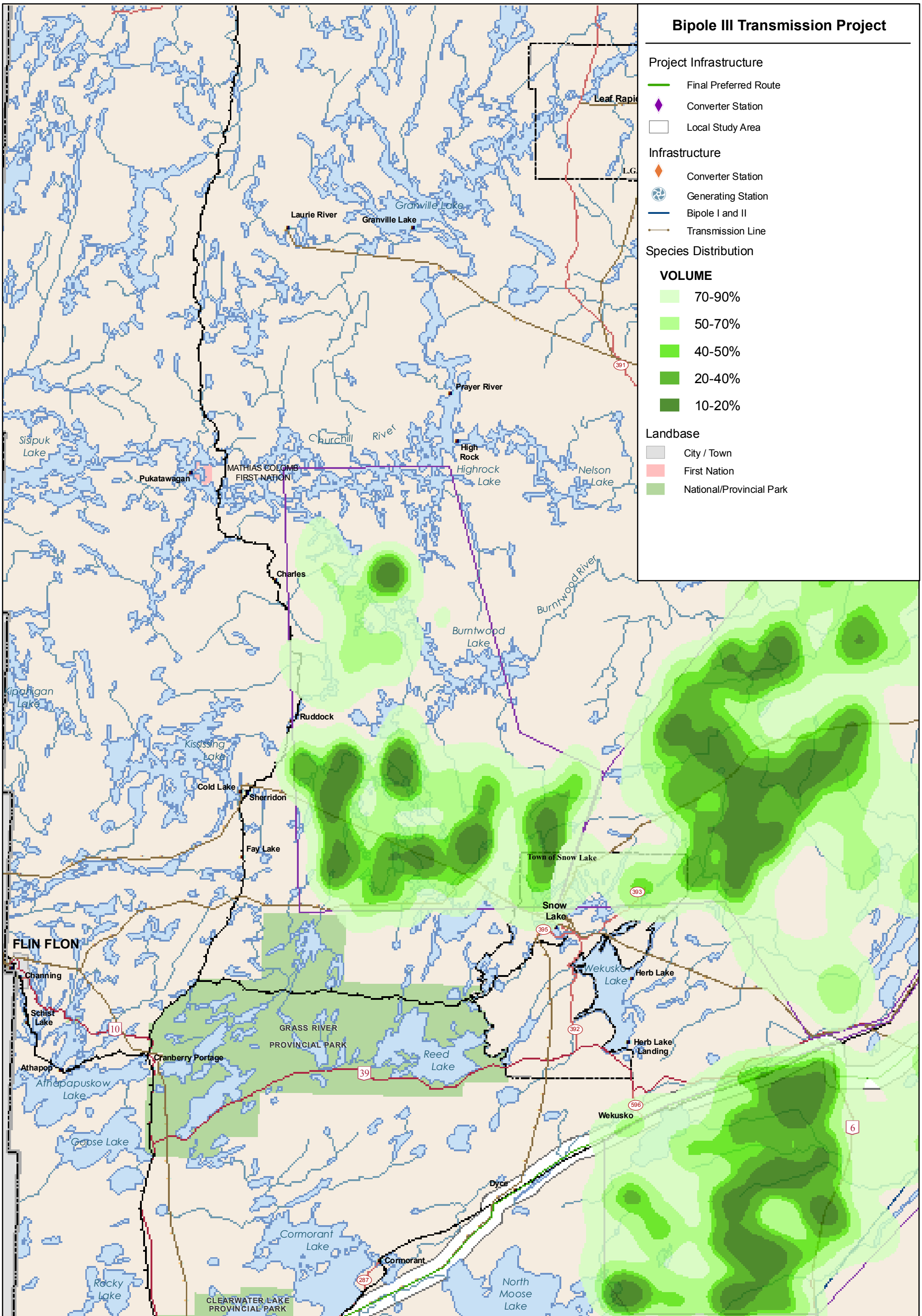
N

1:750,000

Density Kernel Estimate of Moose

From Multispecies Aerial Survey

Map 700-02



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

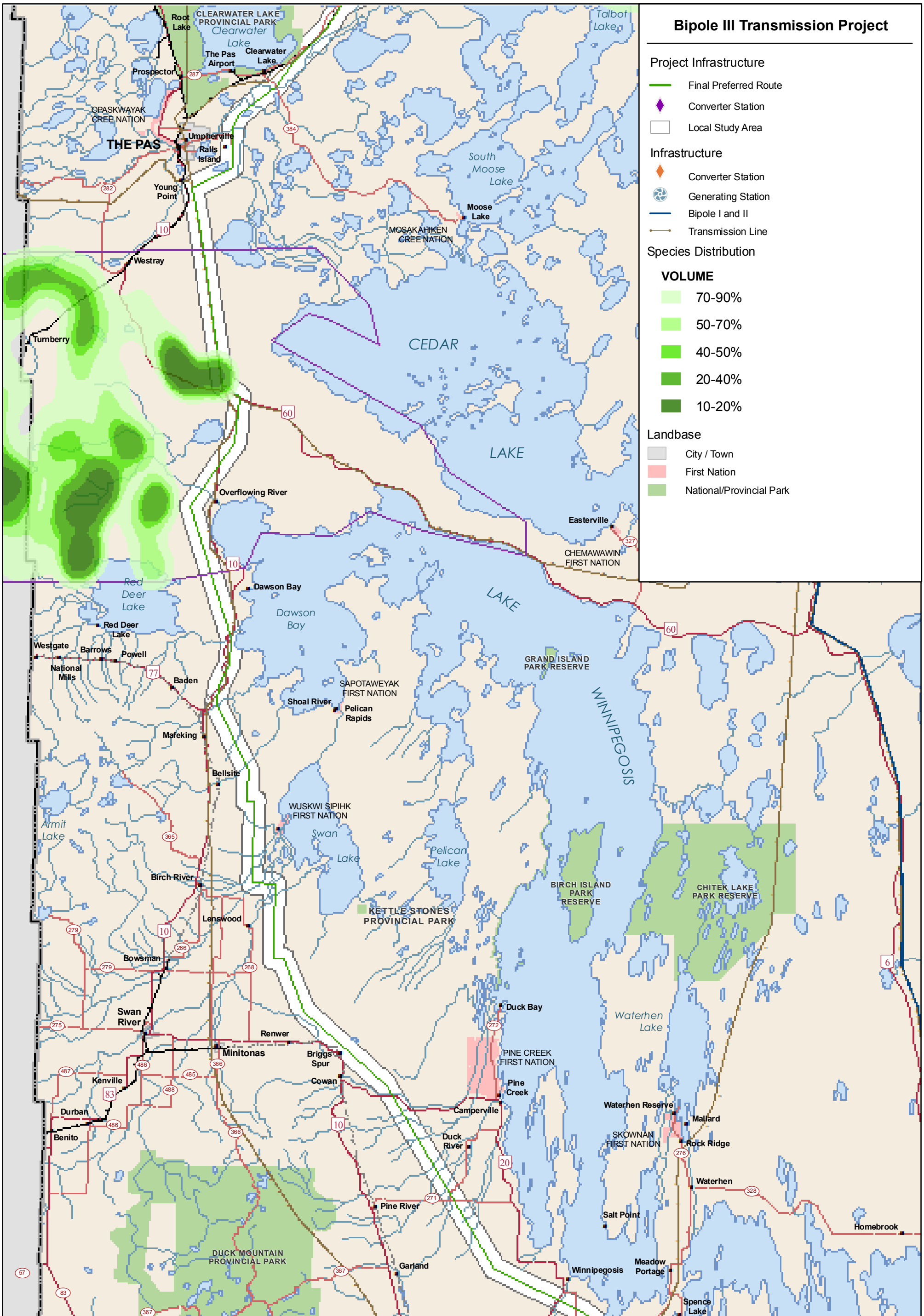
N

1:750,000

Density Kernel Estimate of Moose

From Multispecies Aerial Survey

Map 700-03



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

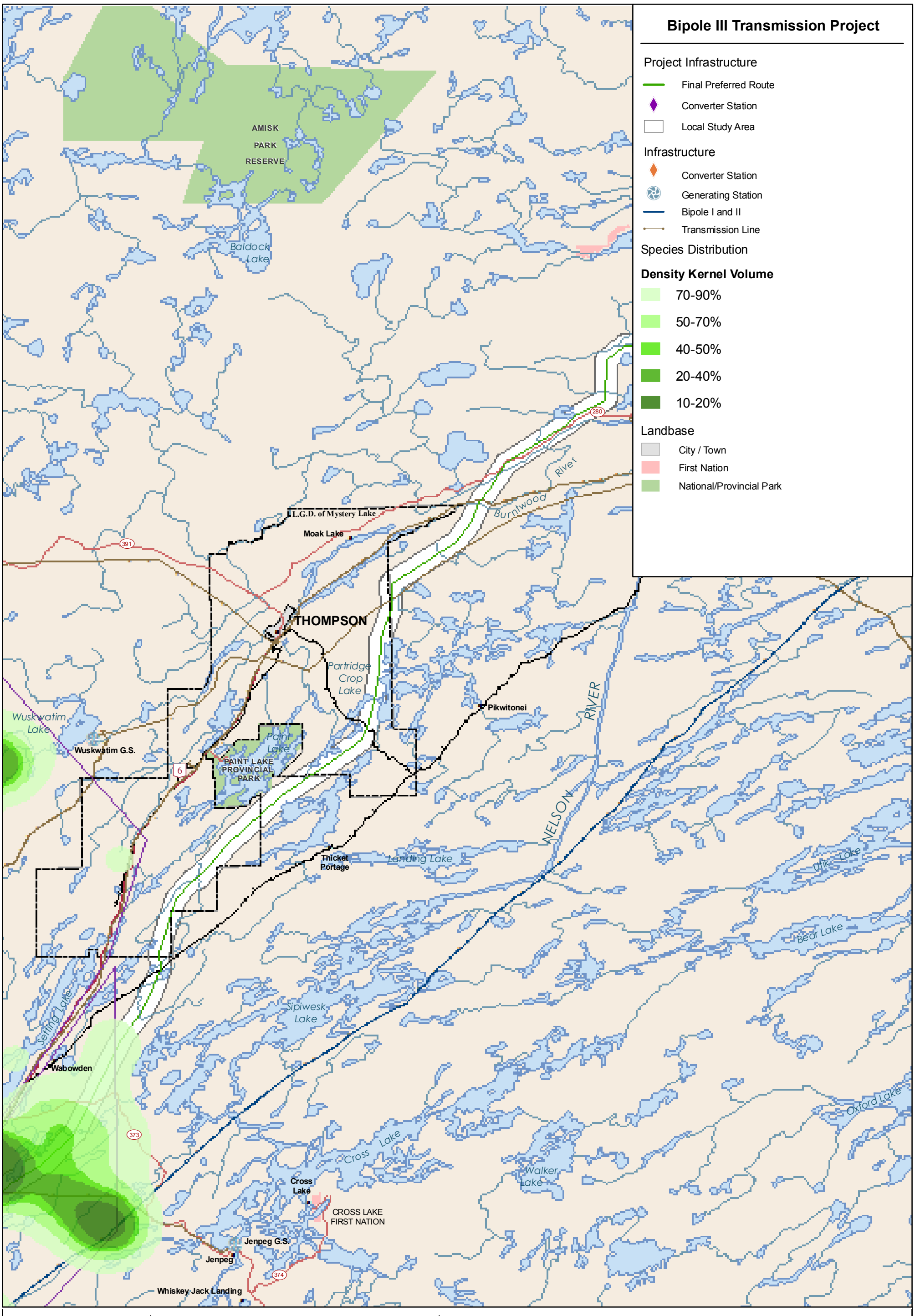
N

1:750,000

Density Kernel Estimate of Moose

From Multispecies Aerial Survey

Map 700-04



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

N

1:750,000

Density Kernel Estimate of Wolf

From Multispecies Aerial Survey

Map 800-02

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Converter Station
- Generating Station
- Bipole I and II
- Transmission Line

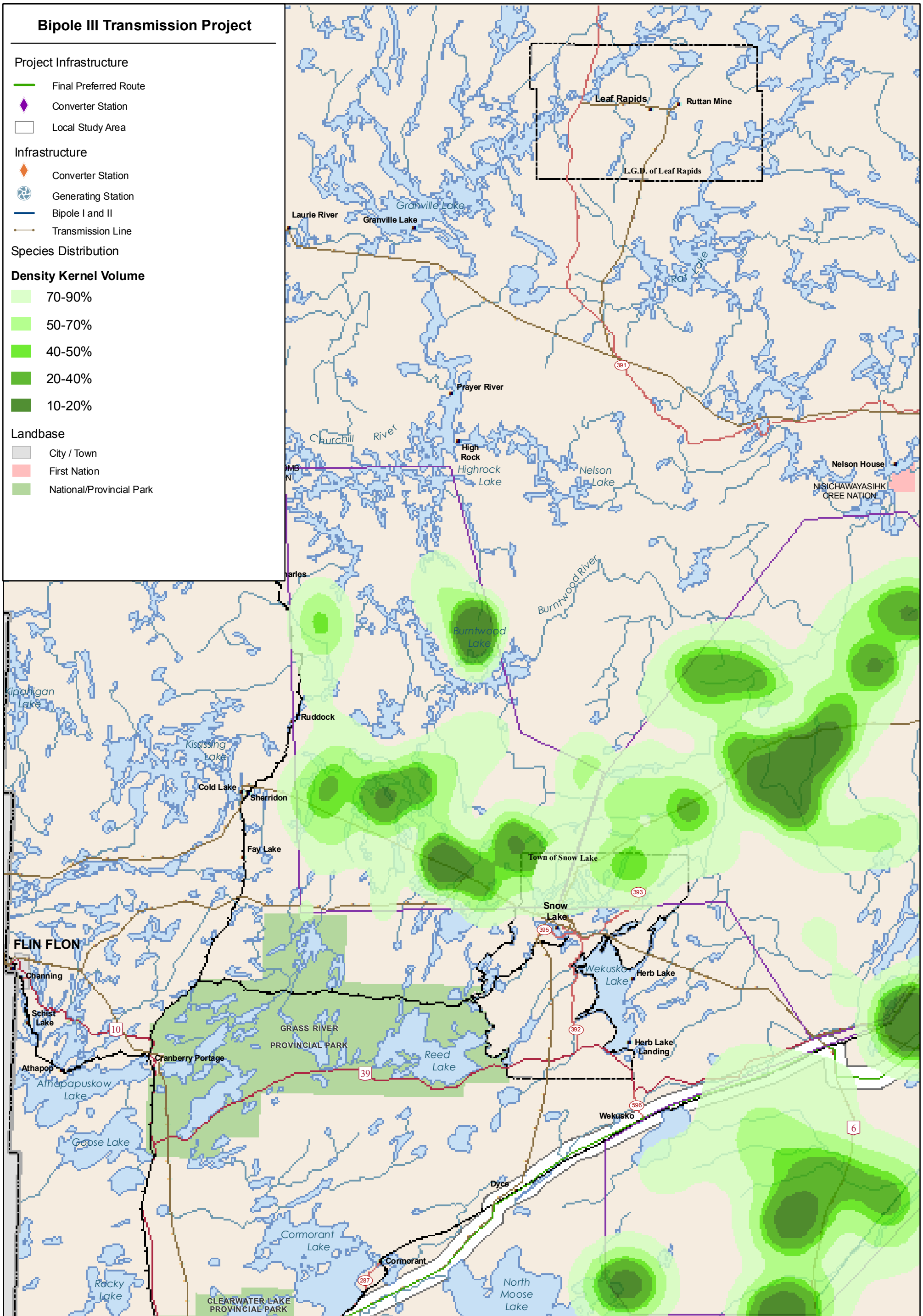
Species Distribution

Density Kernel Volume

- 70-90%
- 50-70%
- 40-50%
- 20-40%
- 10-20%

Landbase

- City / Town
- First Nation
- National/Provincial Park



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres

0 6 12 Miles

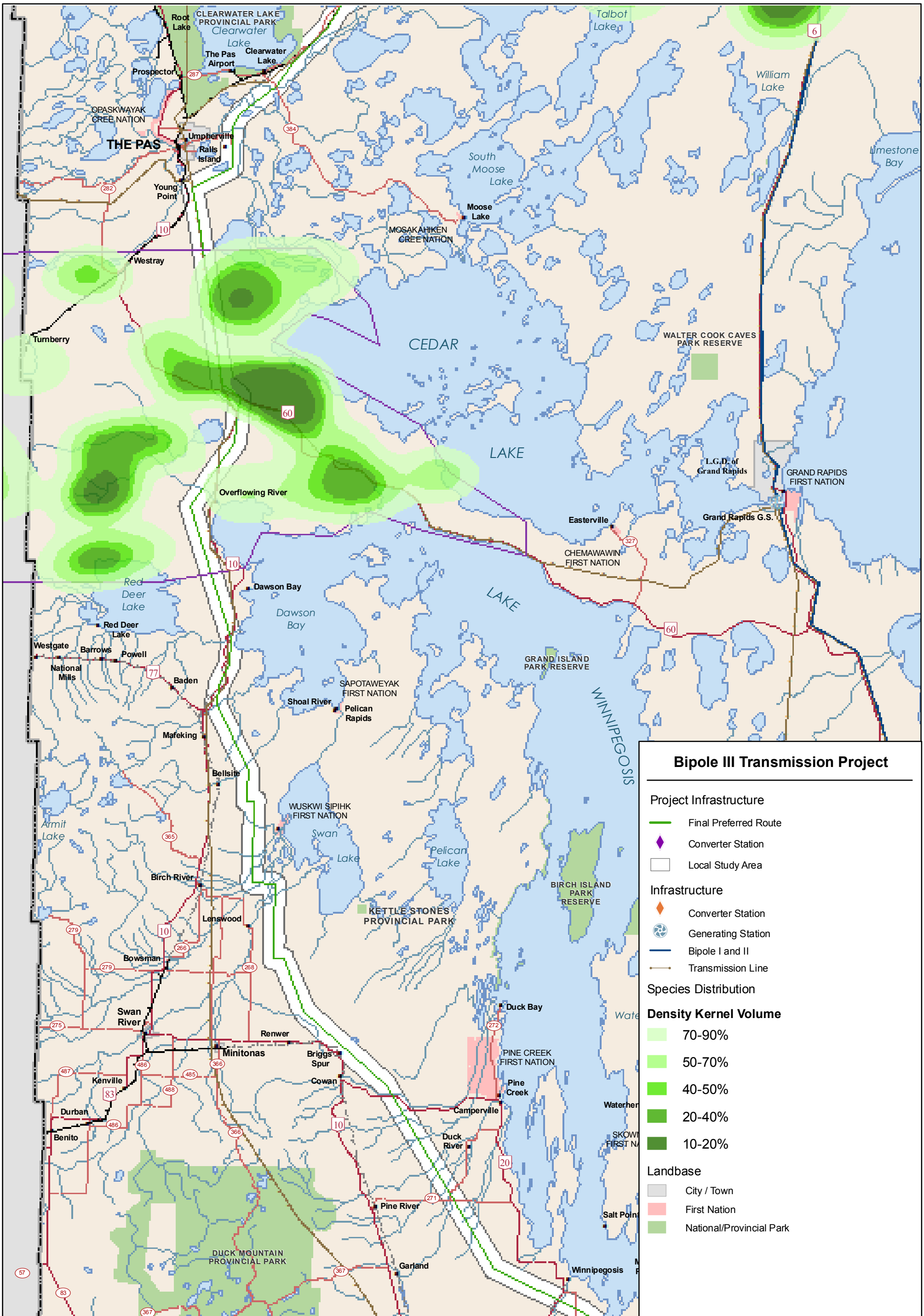
N

1:750,000

Density Kernel Estimate of Wolf

From Multispecies Aerial Survey

Map 800-03



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, Joro
Date Created: October 25, 2011

0 6 12 Kilometres
0 6 12 Miles

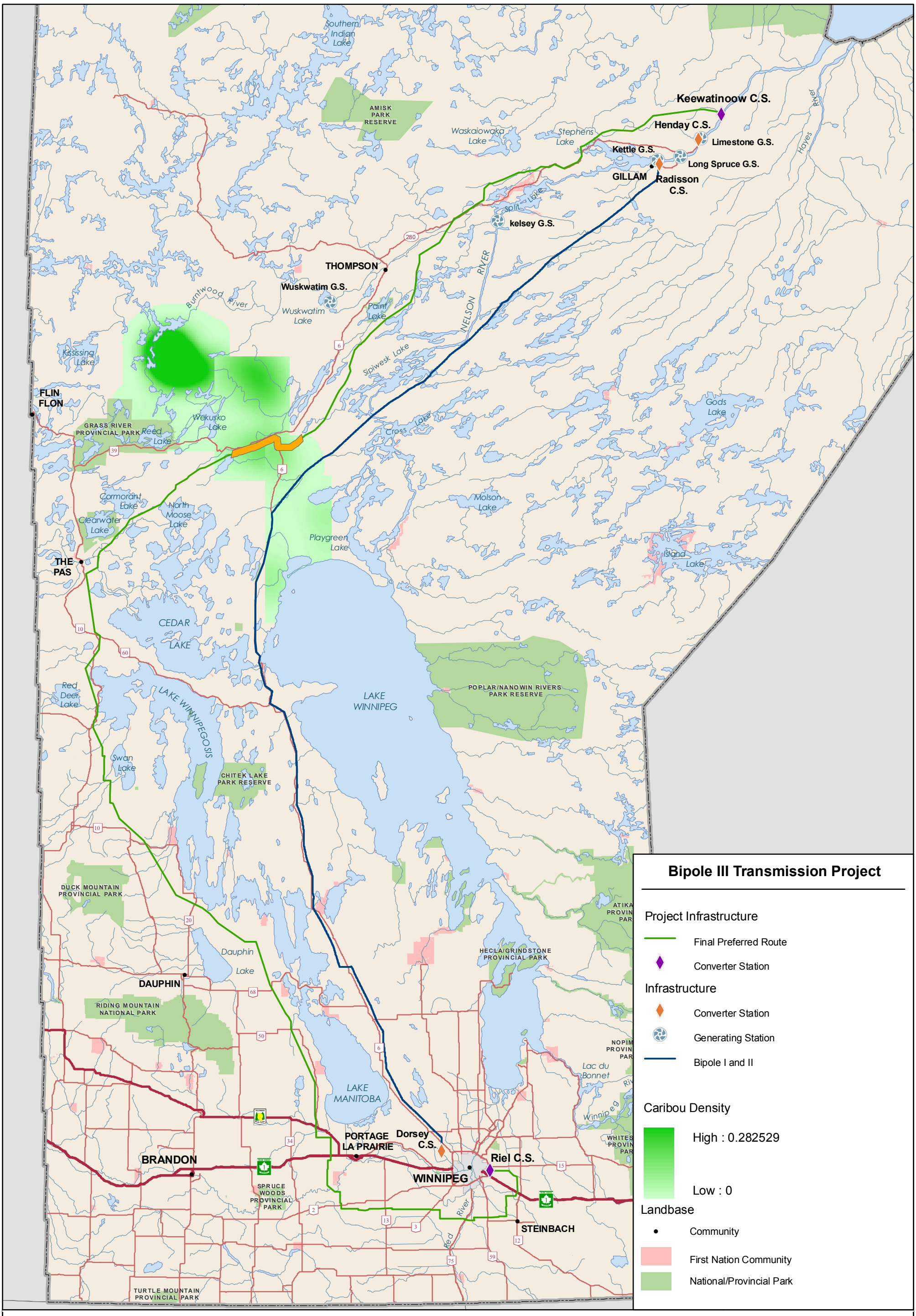
N

1:750,000

Density Kernel Estimate of Wolf

From Multispecies Aerial Survey

Map 800-02



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011

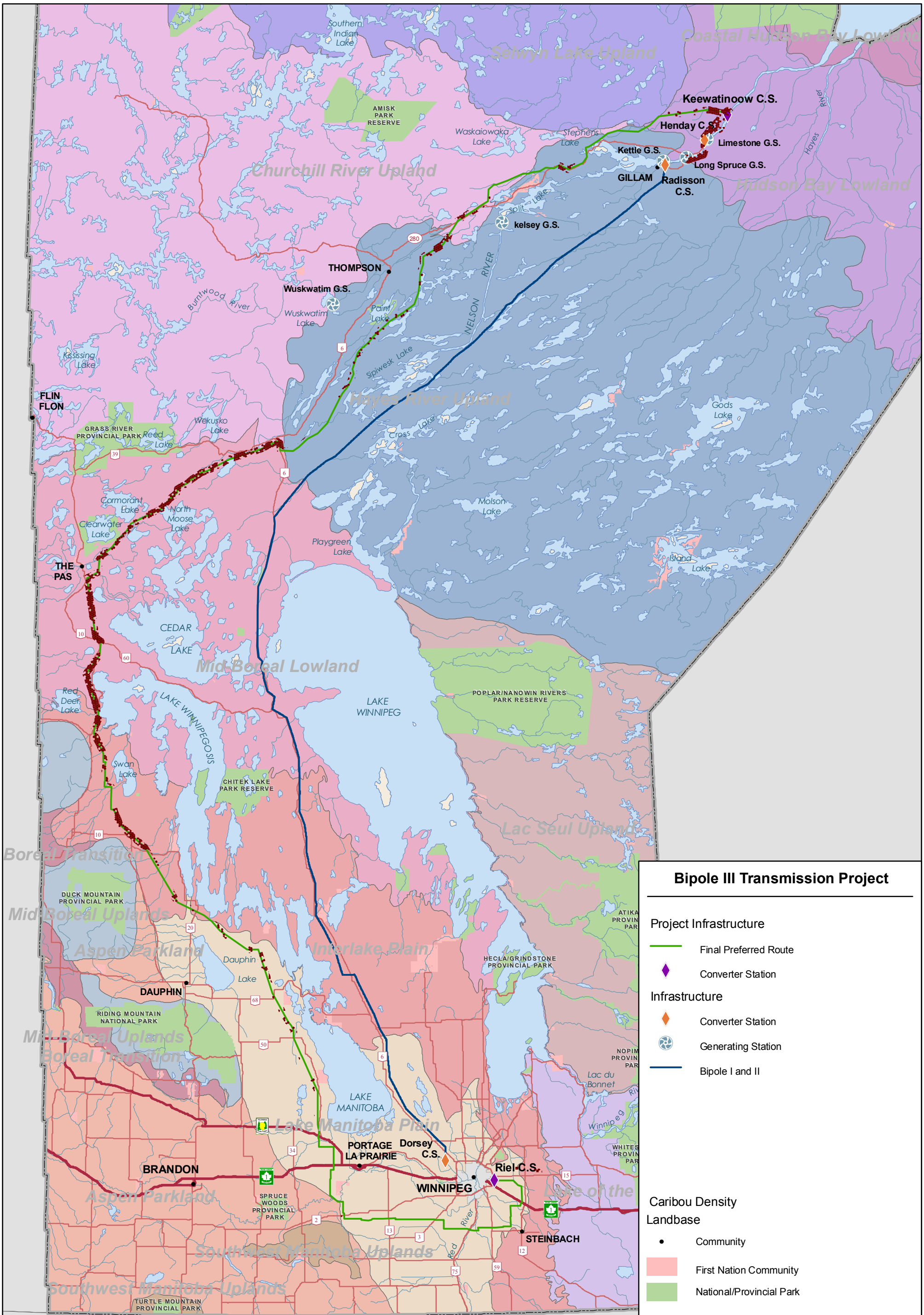
0 25 50 Kilometres
0 25 50 Miles

N

1:2,500,000

Point Density Surface of Caribou From Manitoba Conservation Surveys 2004-2010

Map 14



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011

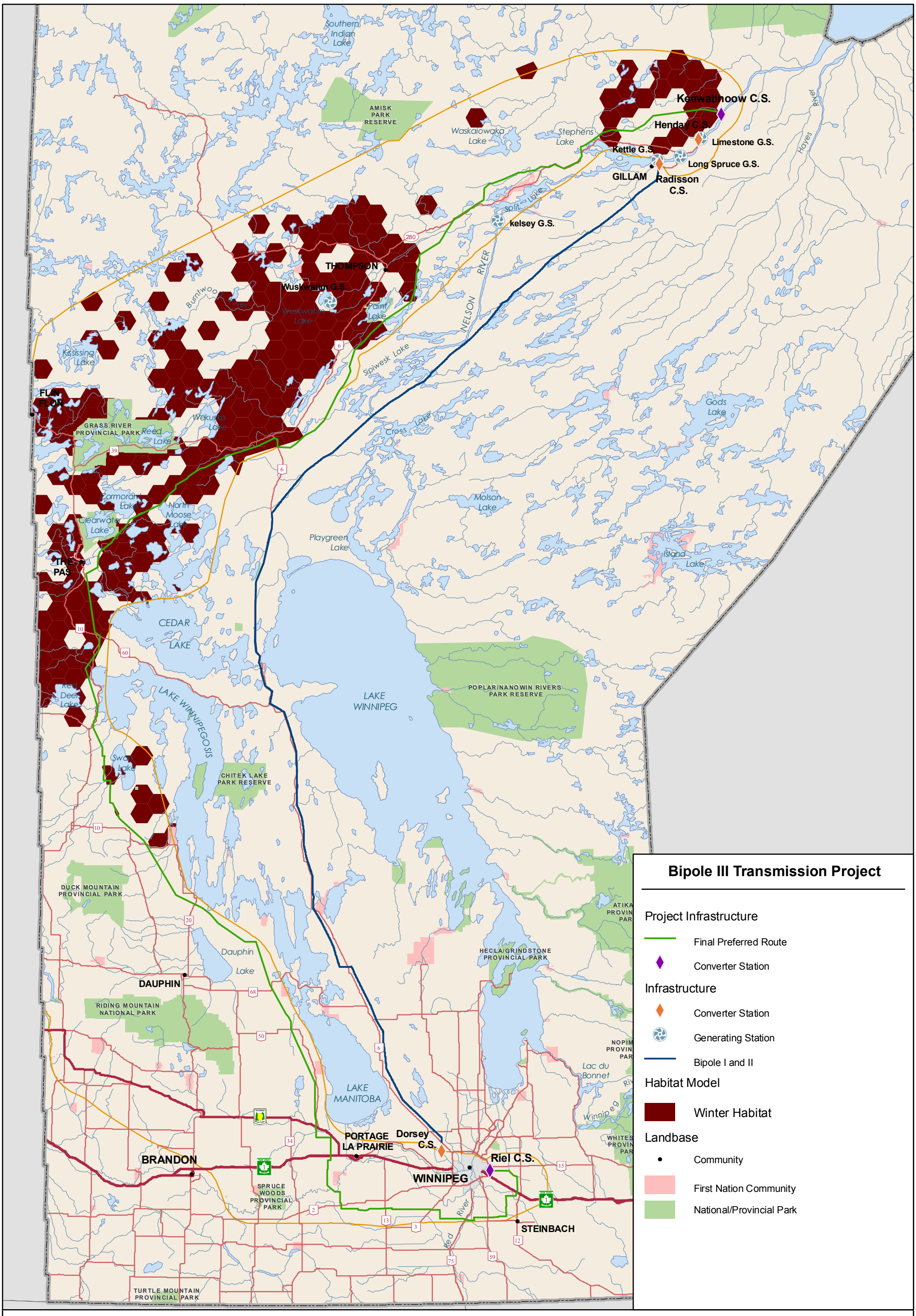
0 25 50 Kilometres
0 25 50 Miles

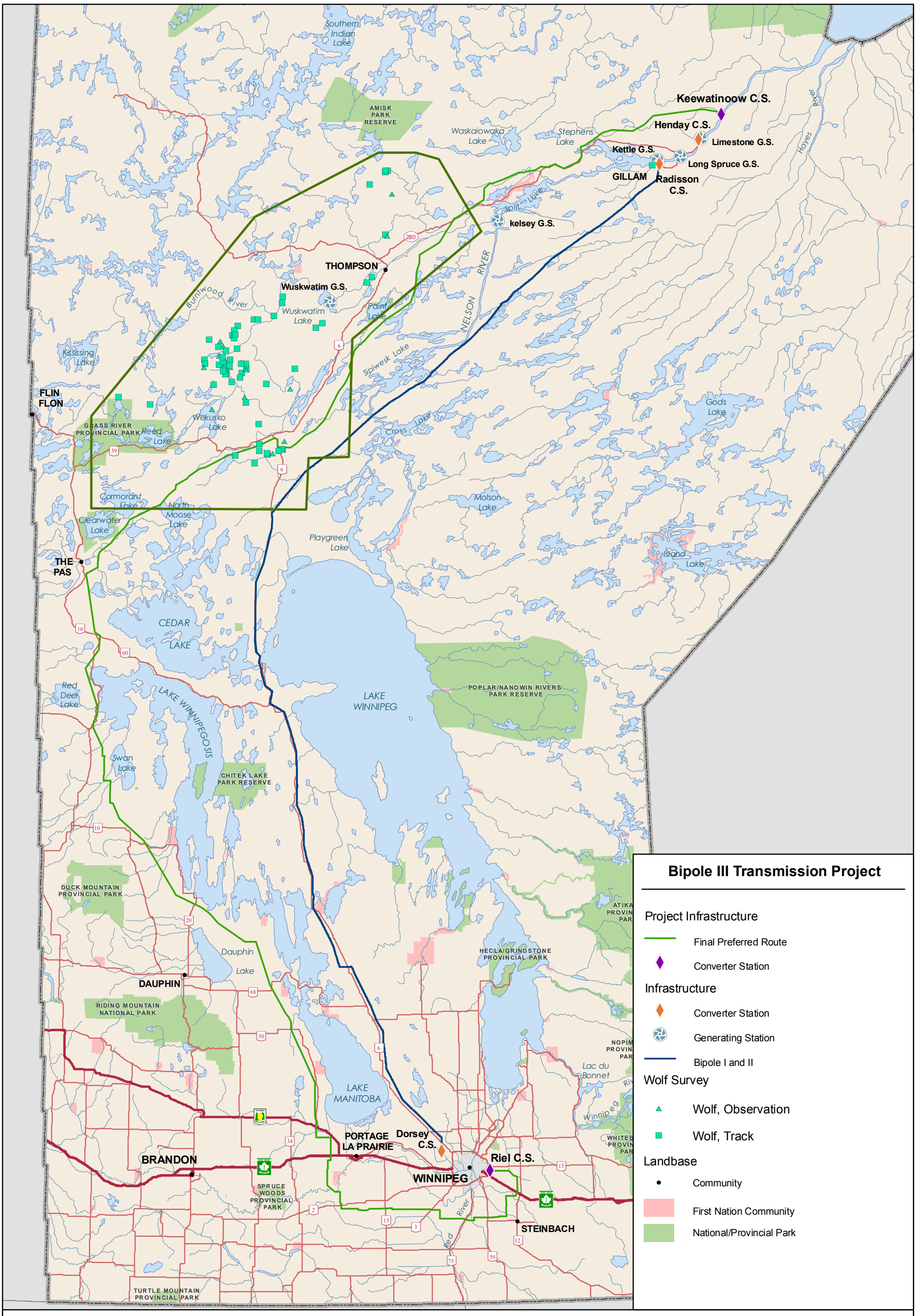
N

1:2,500,000

Results of Predictive Caribou Calving Habitat Relative to Ecoregions

Map 15


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Infrastructure
Converter Station
Generating Station
Bipole I and II
Habitat Model
Winter Habitat
Landbase
Community
First Nation Community
National/Provincial Park
Keewatinoow C.S.
Henday C.S.
Limestone G.S.
Kettle G.S.
Long Spruce G.S.
GILLAM
Radisson C.S.
kelsey G.S.
THOMPSON
Wuskwatim G.S.
FLIN FLON
THE PAS
DAUPHIN
BRANDON
PORTAGE LA PRAIRIE
Dorsey C.S.
Riel C.S.
WINNIPEG
STEINBACH
LAKE WINNIPEG
LAKE MANITOBA
CEDAR LAKE
LAKE WINNIPEGOSIS
NELSON RIVER
Hayes River
Red River
Southern Indian Lake
Waskaiowaka Lake
Stephens Lake
Split Lake
Paint Lake
Wuskwatim Lake
Sipiwesk Lake
Cross Lake
Gods Lake
Molson Lake
Playgreen Lake
Island Lake
Lac du Bonnet
Winnipeg
Kississing Lake
Wekusko Lake
Reed Lake
Cormorant Lake
Clearwater Lake
North Moose Lake
Red Deer Lake
Swan Lake
Dauphin Lake
AMISK PARK RESERVE
GRASS RIVER PROVINCIAL PARK
CHITEK LAKE PARK RESERVE
POPLAR/NANOWIN RIVERS PARK RESERVE
DUCK MOUNTAIN PROVINCIAL PARK
RIDING MOUNTAIN NATIONAL PARK
SPRUCE WOODS PROVINCIAL PARK
TURTLE MOUNTAIN PROVINCIAL PARK
HECLA/GRINDSTONE PROVINCIAL PARK
ATIKA PROVIN PAR
NOPIM PROVIN PAR
WHITES PROVIN PAR
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011
0 25 50 Kilometres
0 25 50 Miles
N
1:2,500,000
Results of Predictive Caribou Winter Habitat Model
Indicating High Quality Caribou Habitat
Map 16



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011

0 25 50 Kilometres
0 25 50 Miles

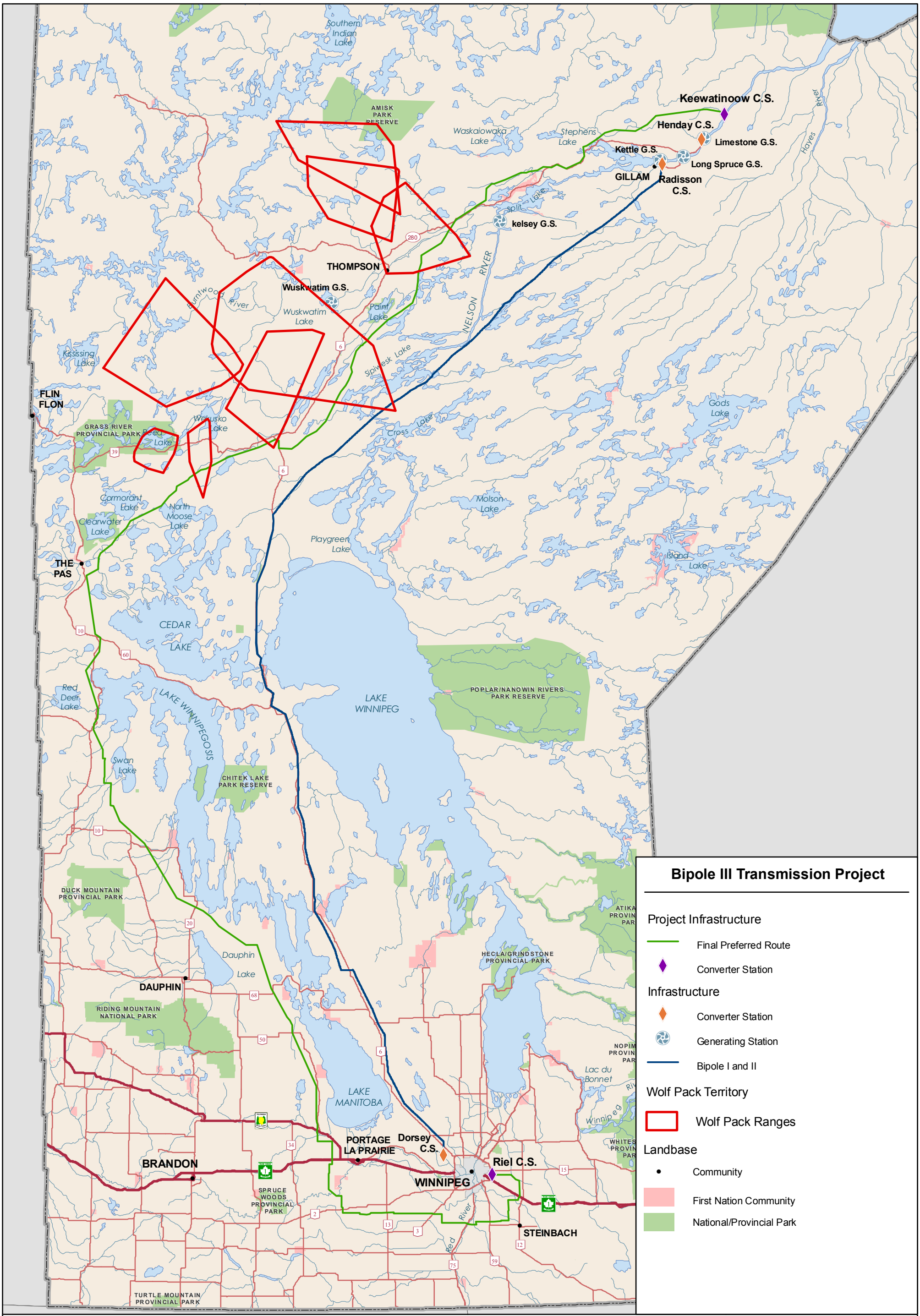
N

1:2,500,000

Results of 2011 Wolf Census

Tracks And Observations Of Wolves

Map 17



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011

0 25 50 Kilometres
0 25 50 Miles

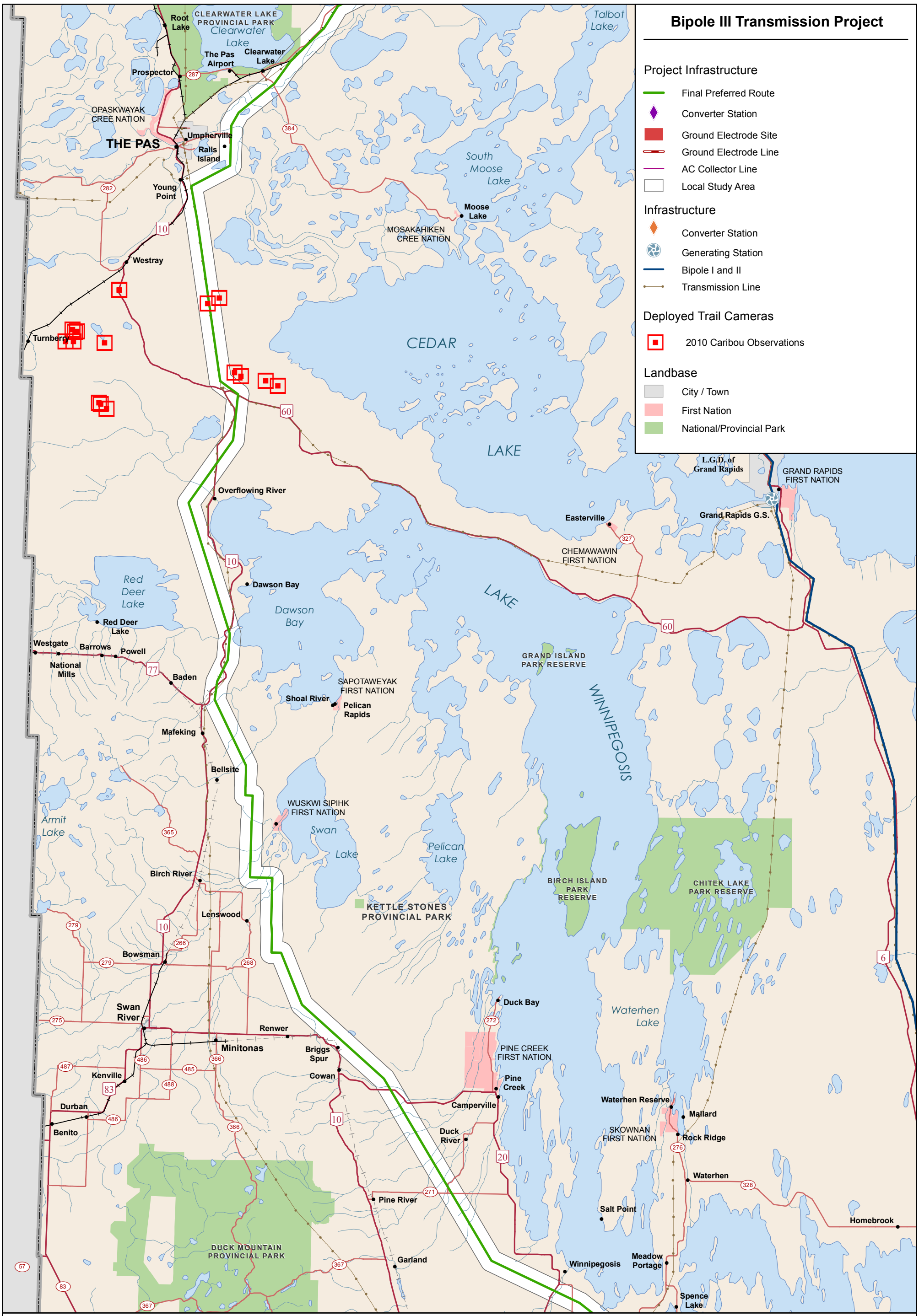
N

1:2,500,000

Wolf Pack Range Delineation

Minimum Convex Polygons From GPS Collar Data

Map 18


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Ground Electrode Site
Ground Electrode Line
AC Collector Line
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
Transmission Line
Deployed Trail Cameras
2010 Caribou Observations
Landbase
City / Town
First Nation
National/Provincial Park
CLEARWATER LAKE PROVINCIAL PARK
Clearwater Lake
Root Lake
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THE PAS
Umpherville
Ralls Island
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Talbot Lake
South Moose Lake
Moose Lake
MOSAKAHIKEN CREE NATION
CEDAR
LAKE
Overflowing River
L.G.D. of Grand Rapids
GRAND RAPIDS FIRST NATION
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Easterville
CHEMAWAWIN FIRST NATION
Red Deer Lake
Dawson Bay
Red Deer Lake
Westgate
Barrows
Powell
National Mills
Baden
SAPOTAWEYAK FIRST NATION
Shoal River
Pelican Rapids
GRAND ISLAND PARK RESERVE
WINNIPEGOSIS
Mafeking
Bellsite
WUSKWI SIPIHK FIRST NATION
Armit Lake
Swan Lake
Pelican Lake
Birch River
BIRCH ISLAND PARK RESERVE
CHITEK LAKE PARK RESERVE
KETTLE STONES PROVINCIAL PARK
Lenswood
Bowsman
Swan River
Renwer
Minitonas
Briggs Spur
Cowan
Kenville
Durban
Benito
Duck Bay
Waterhen Lake
PINE CREEK FIRST NATION
Pine Creek
Camperville
Duck River
Waterhen Reserve
Mallard
SKOWNAN FIRST NATION
Rock Ridge
Waterhen
Pine River
Salt Point
Homebrook
DUCK MOUNTAIN PROVINCIAL PARK
Garland
Winnipegosis
Meadow Portage
Spence Lake
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011
0 5 10 Kilometres
0 5 10 Miles
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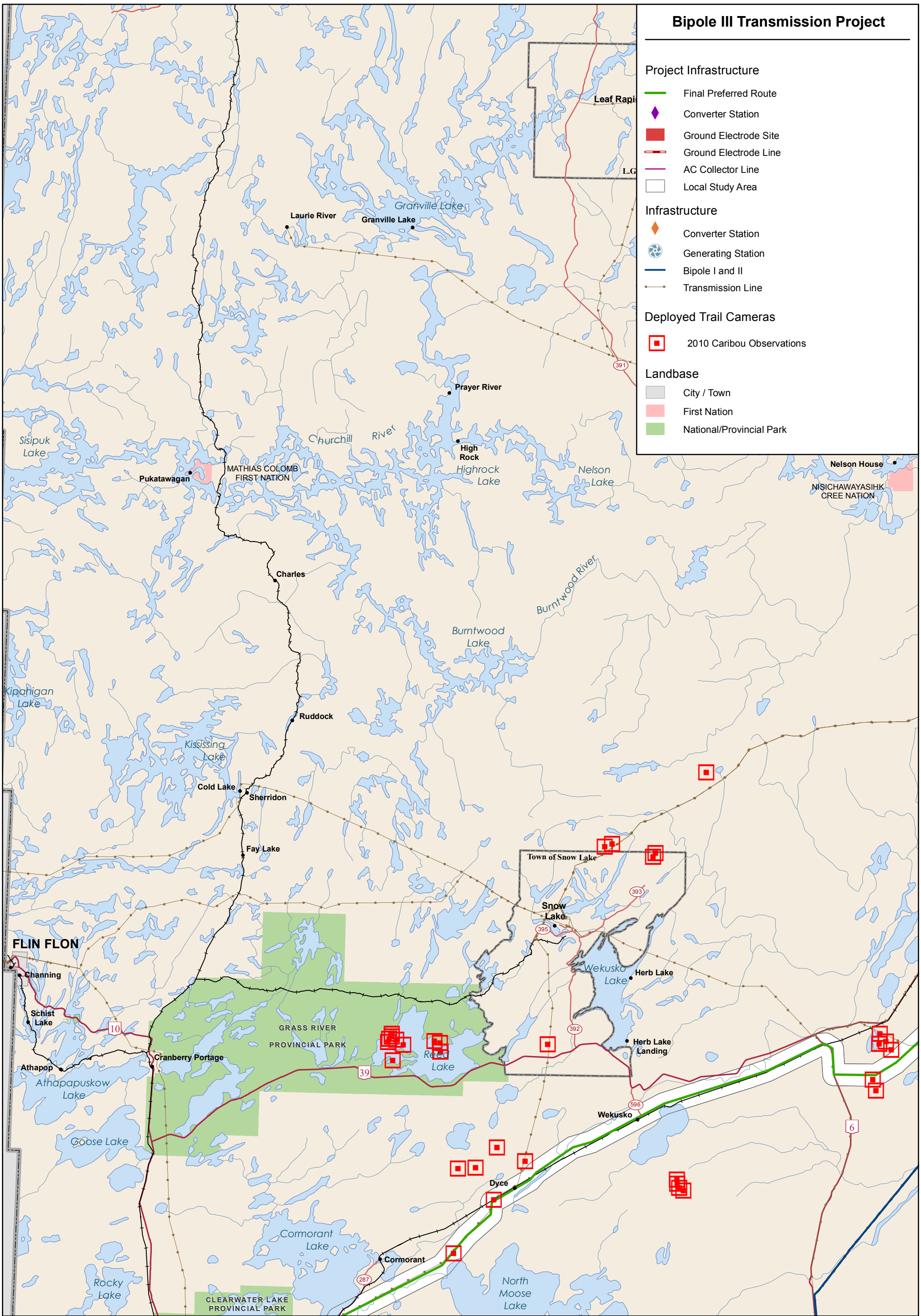
Trail Camera Deployments
Distribution of Caribou Observations in 2010
Map 900-01



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

0 5 10 Kilometres
0 5 10 Miles

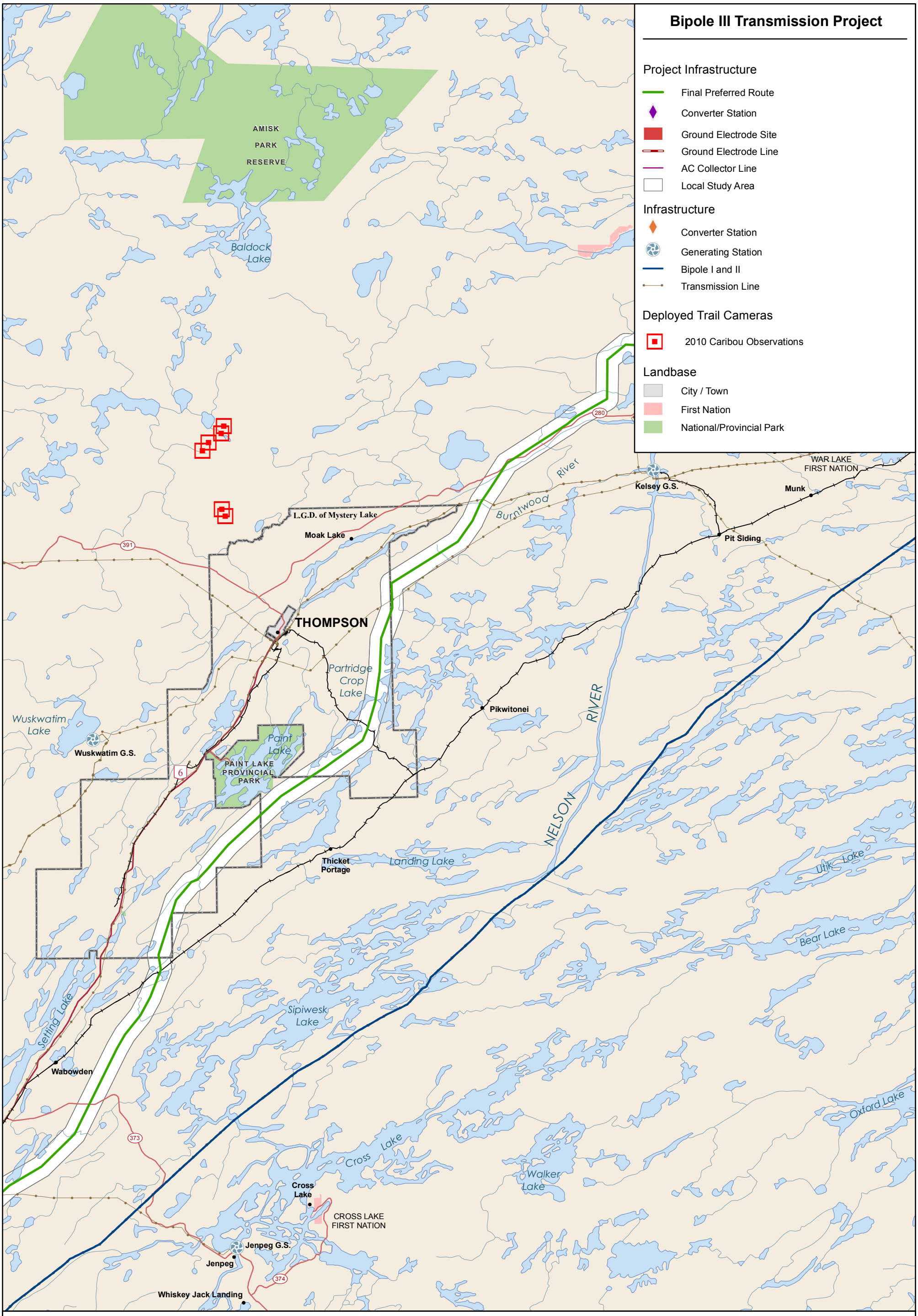
N

1:750,000

Trail Camera Deployments

Distribution of Caribou Observations in 2010

Map 900-02


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Converter Station
Ground Electrode Site
Ground Electrode Line
AC Collector Line
Local Study Area
Infrastructure
Converter Station
Generating Station
Bipole I and II
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2010 Caribou Observations
Landbase
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Moak Lake
THOMPSON
Partridge Crop Lake
Wuskwatim Lake
Wuskwatim G.S.
Paint Lake
PAINT LAKE PROVINCIAL PARK
Thicket Portage
Landing Lake
Pikwitonei
NELSON RIVER
Burntwood River
Kelsey G.S.
WAR LAKE FIRST NATION
Munk
Pit Siding
Utik Lake
Bear Lake
Sipiwesk Lake
Setting Lake
Wabowden
Cross Lake
Walker Lake
Oxford Lake
Cross Lake
CROSS LAKE FIRST NATION
Jenpeg G.S.
Jenpeg
Whiskey Jack Landing
280
391
6
373
374
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011
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0 5 10 Miles
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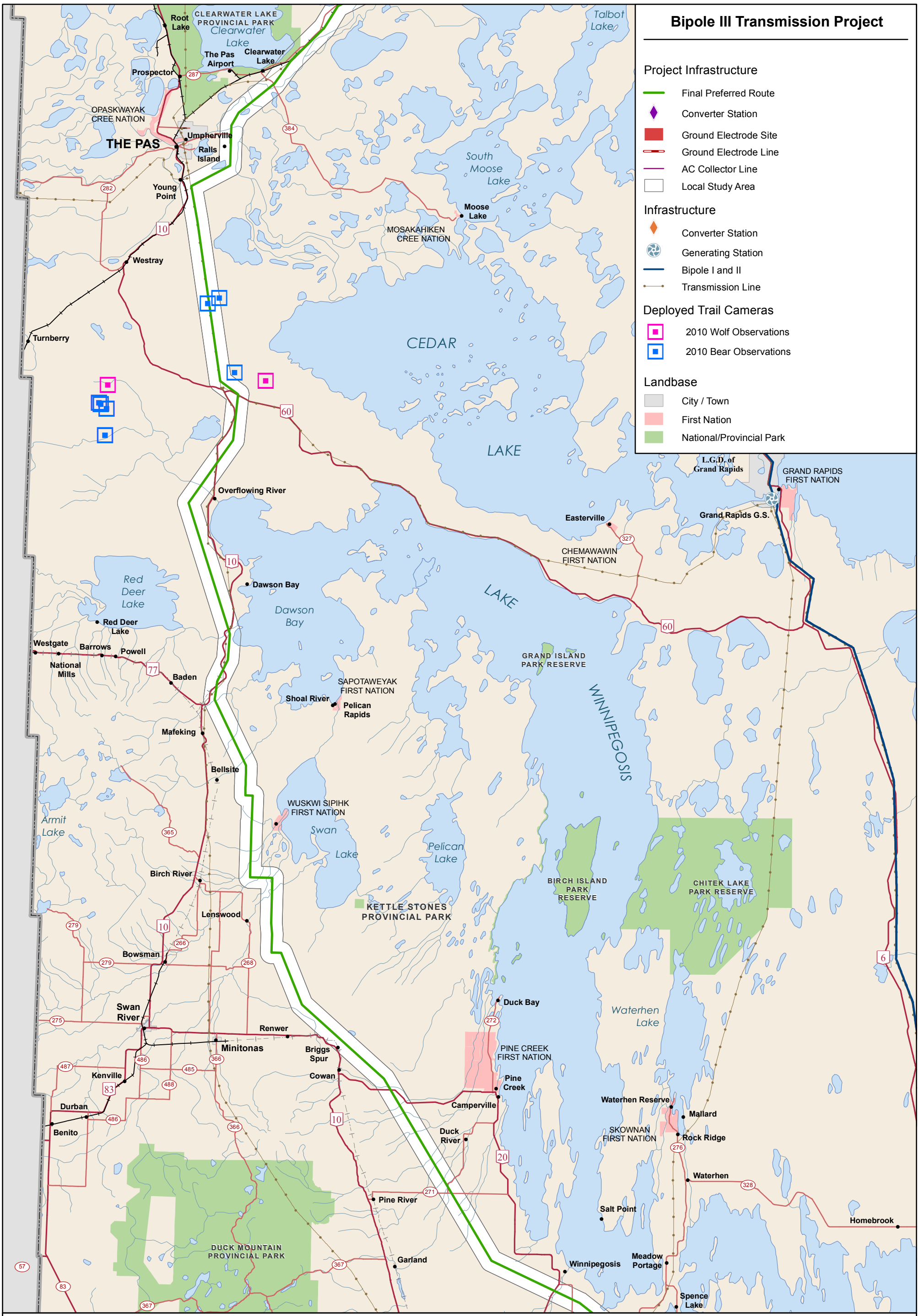
Trail Camera Deployments
Distribution of Caribou Observations in 2010
Map 900-03



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

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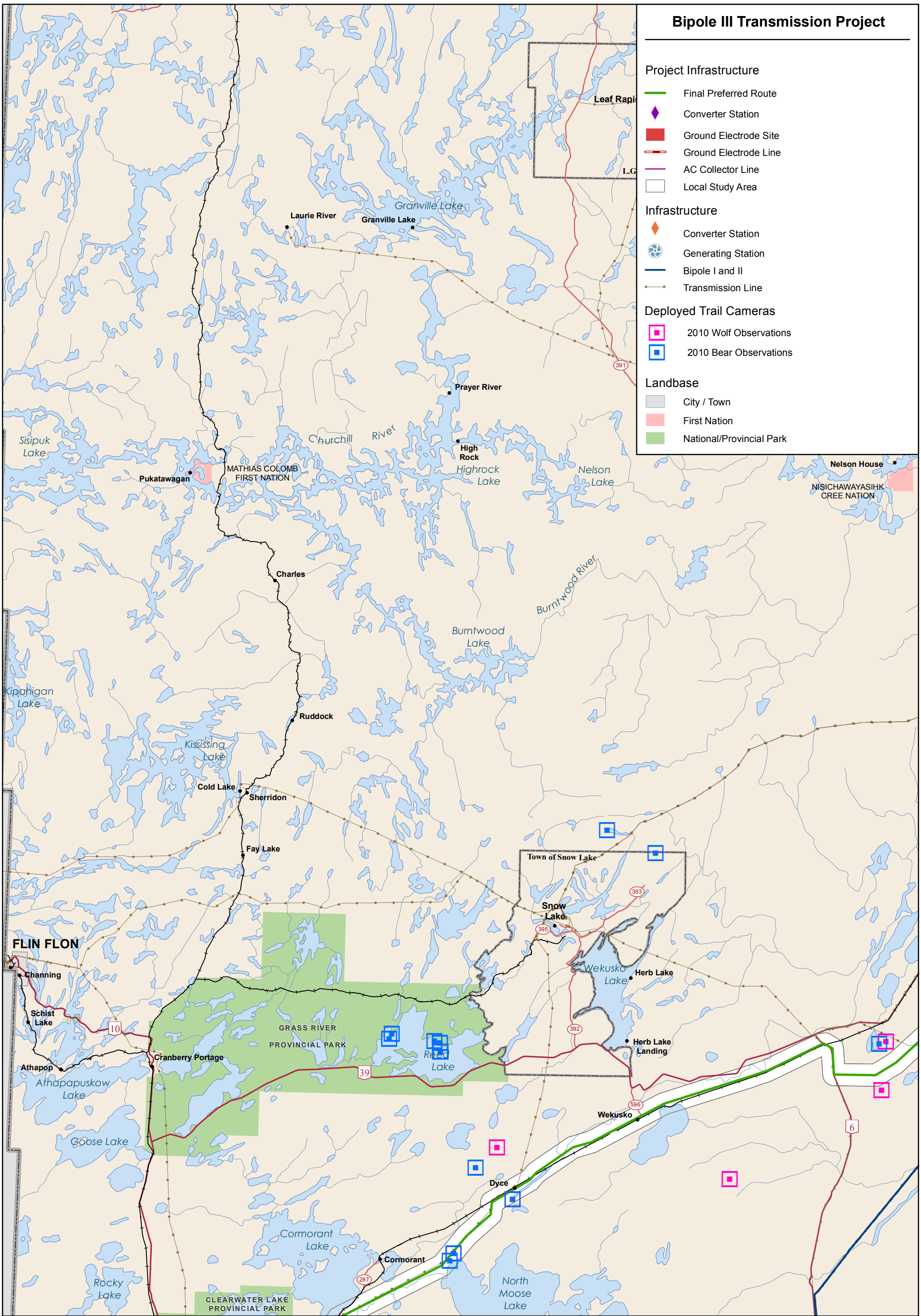
Trail Camera Deployments

Distribution of Wolf and Bear Observations in 2010

Map 1000-01



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
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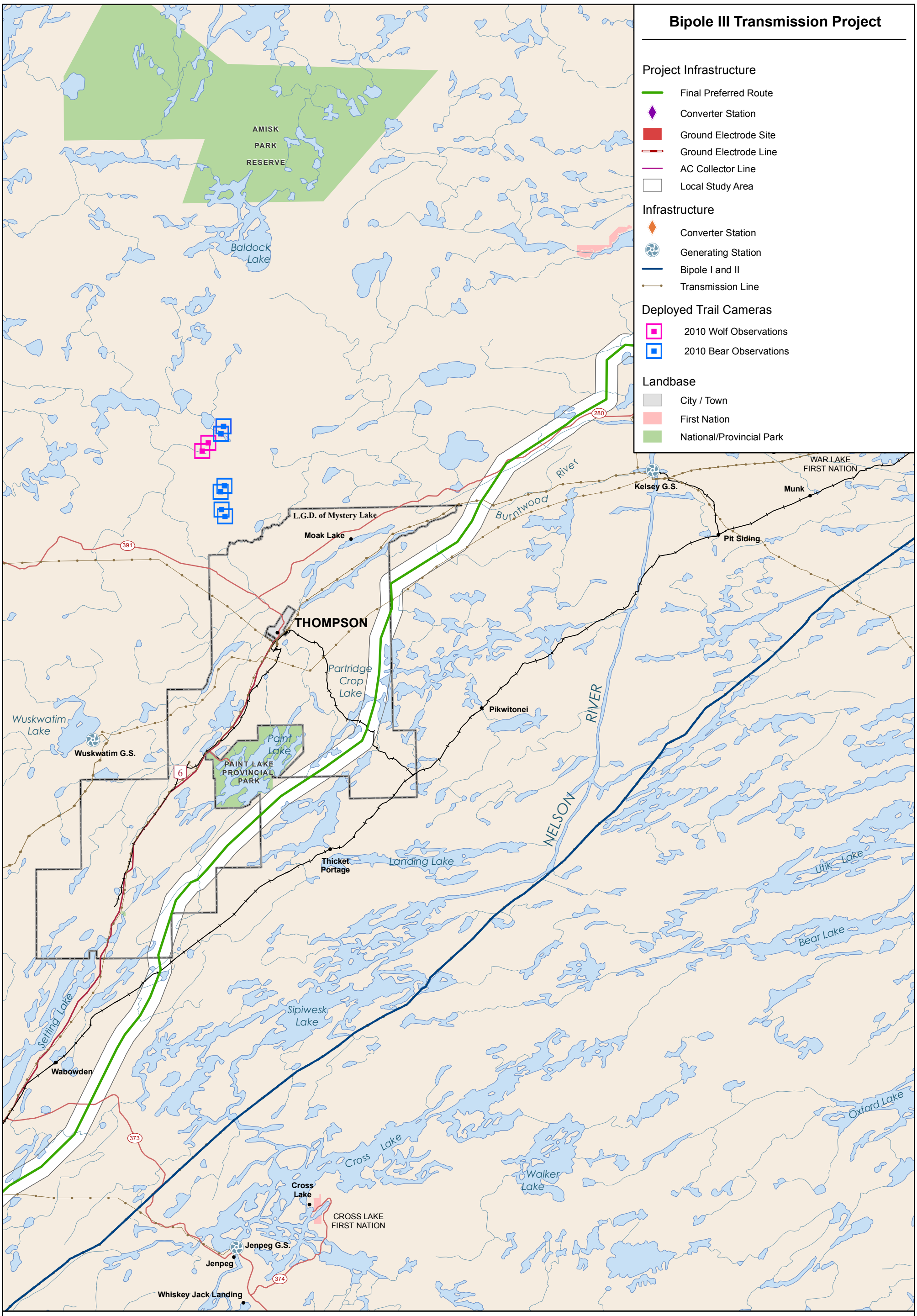
Trail Camera Deployments

Distribution of Wolf and Bear Observations in 2010

Map 1000-02



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

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0 5 10 Miles

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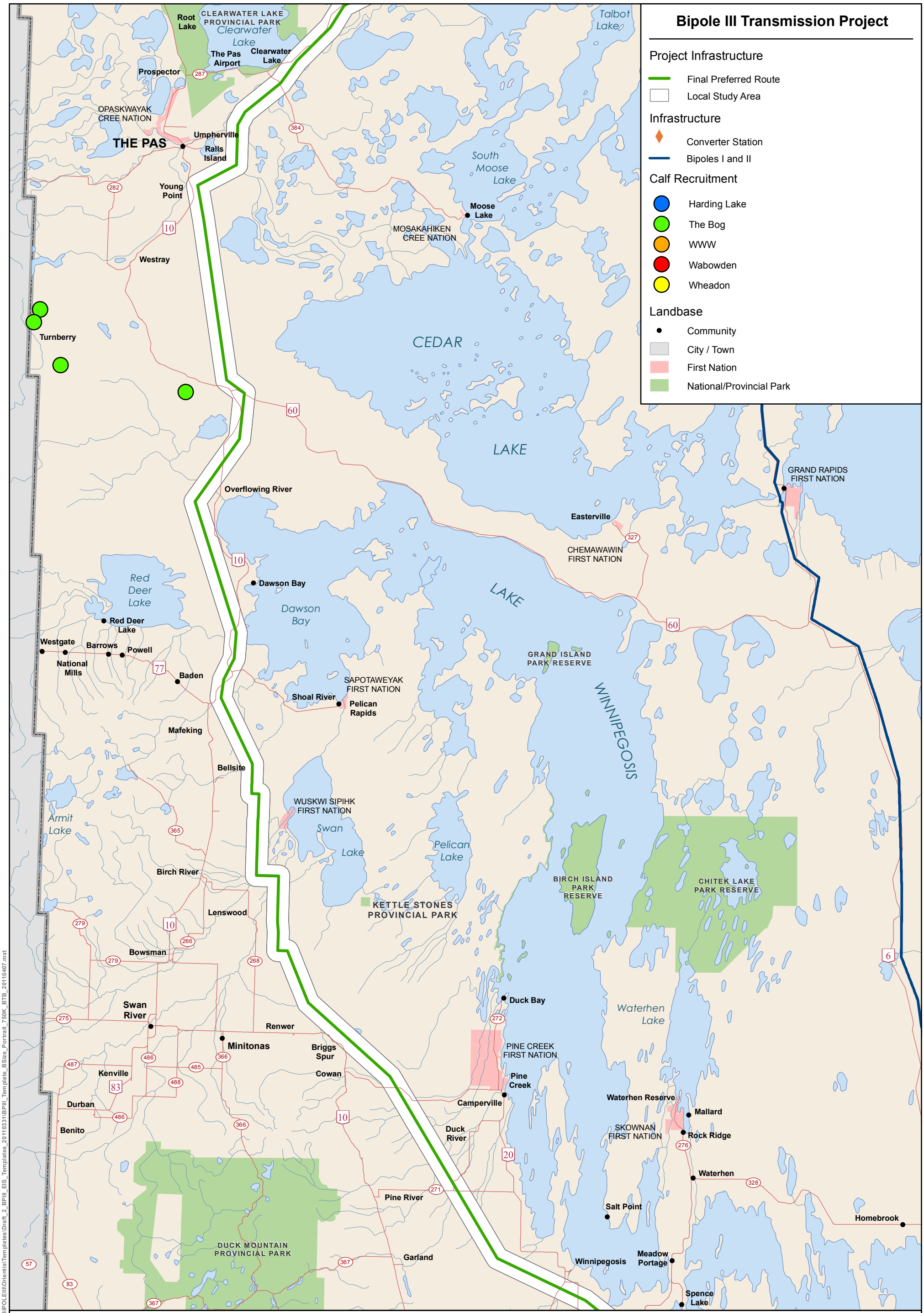
Trail Camera Deployments

Distribution of Wolf and Bear Observations in 2010

Map 1000-03


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Local Study Area
Infrastructure
Converter Station
Bipoles I and II
Calf Recruitment
Harding Lake
The Bog
WWW
Wabowden
Wheadon
Landbase
Community
City / Town
First Nation
National/Provincial Park
CLEARWATER LAKE PROVINCIAL PARK
Clearwater Lake
Root Lake
The Pas Airport
Clearwater Lake
Prospector
OPASKWAYAK CREE NATION
THE PAS
Umpherville
Ralls Island
Young Point
Westray
Turnberry
Talbot Lake
South Moose Lake
Moose Lake
MOSAKAHIKEN CREE NATION
CEDAR
LAKE
Overflowing River
Easterville
CHEMAWAWIN FIRST NATION
GRAND RAPIDS FIRST NATION
Red Deer Lake
Dawson Bay
Dawson Bay
Red Deer Lake
Westgate
Barrows
Powell
National Mills
Baden
SAPOTAWEYAK FIRST NATION
Shoal River
Pelican Rapids
GRAND ISLAND PARK RESERVE
WINNIPEGOSIS
Mafeking
Bellsite
WUSKWI SIPIHK FIRST NATION
Armit Lake
Swan Lake
Pelican Lake
Birch River
BIRCH ISLAND PARK RESERVE
CHITEK LAKE PARK RESERVE
KETTLE STONES PROVINCIAL PARK
Lenswood
Bowsman
Swan River
Renwer
Minitonas
Briggs Spur
Cowan
Kenville
Durban
Benito
Duck Bay
Waterhen Lake
PINE CREEK FIRST NATION
Pine Creek
Camperville
Duck River
Waterhen Reserve
Mallard
SKOWNAN FIRST NATION
Rock Ridge
Waterhen
Salt Point
Homebrook
Pine River
DUCK MOUNTAIN PROVINCIAL PARK
Garland
Winnipegosis
Meadow Portage
Spence Lake
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011
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0 5 10 Miles
1:750,000
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Calf Recruitment Surveys
Distribution of Calf Observations in Summer 2010
Map 1100-01
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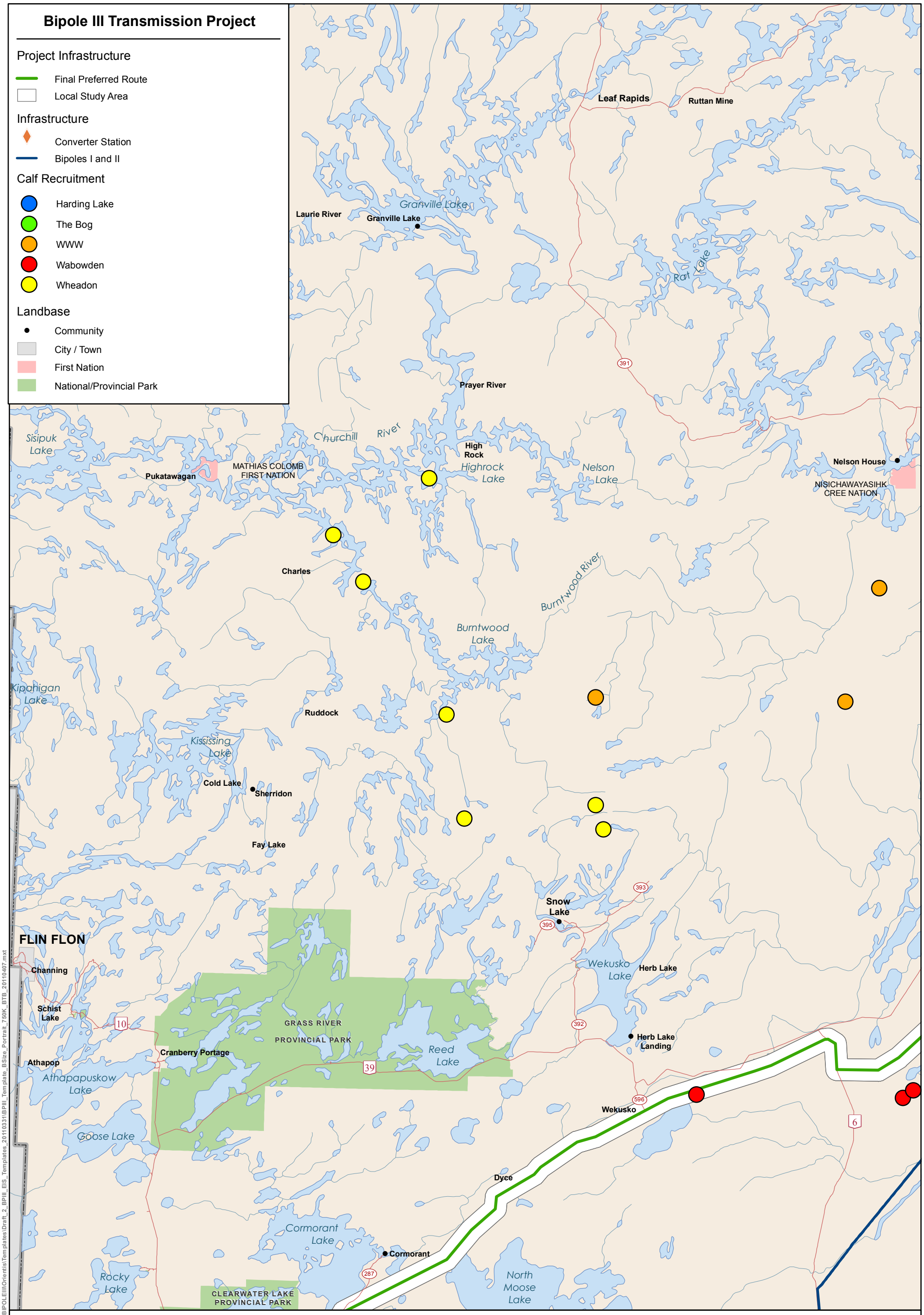
Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Local Study Area
Infrastructure
Converter Station
Bipoles I and II
Calf Recruitment
Harding Lake
The Bog
WWW
Wabowden
Wheadon
Landbase
Community
City / Town
First Nation
National/Provincial Park
Leaf Rapids
Ruttan Mine
Granville Lake
Laurie River
Rat Lake
Prayer River
Churchill River
Sisipuk Lake
Pukatawagan
MATHIAS COLOMB FIRST NATION
High Rock
Highrock Lake
Nelson Lake
Nelson House
NISICHAWAYASIHK CREE NATION
Charles
Burntwood River
Burntwood Lake
Kipahigan Lake
Ruddock
Kississing Lake
Cold Lake
Sherridon
Fay Lake
Snow Lake
FLIN FLON
Channing
Schist Lake
Wekusko Lake
Herb Lake
GRASS RIVER PROVINCIAL PARK
Cranberry Portage
Reed Lake
Herb Lake Landing
Athapop
Athapapuskow Lake
Wekusko
Goose Lake
Dyce
Cormorant Lake
Cormorant
Rocky Lake
CLEARWATER LAKE PROVINCIAL PARK
North Moose Lake
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011
0 5 10 Kilometres
0 5 10 Miles
1:750,000
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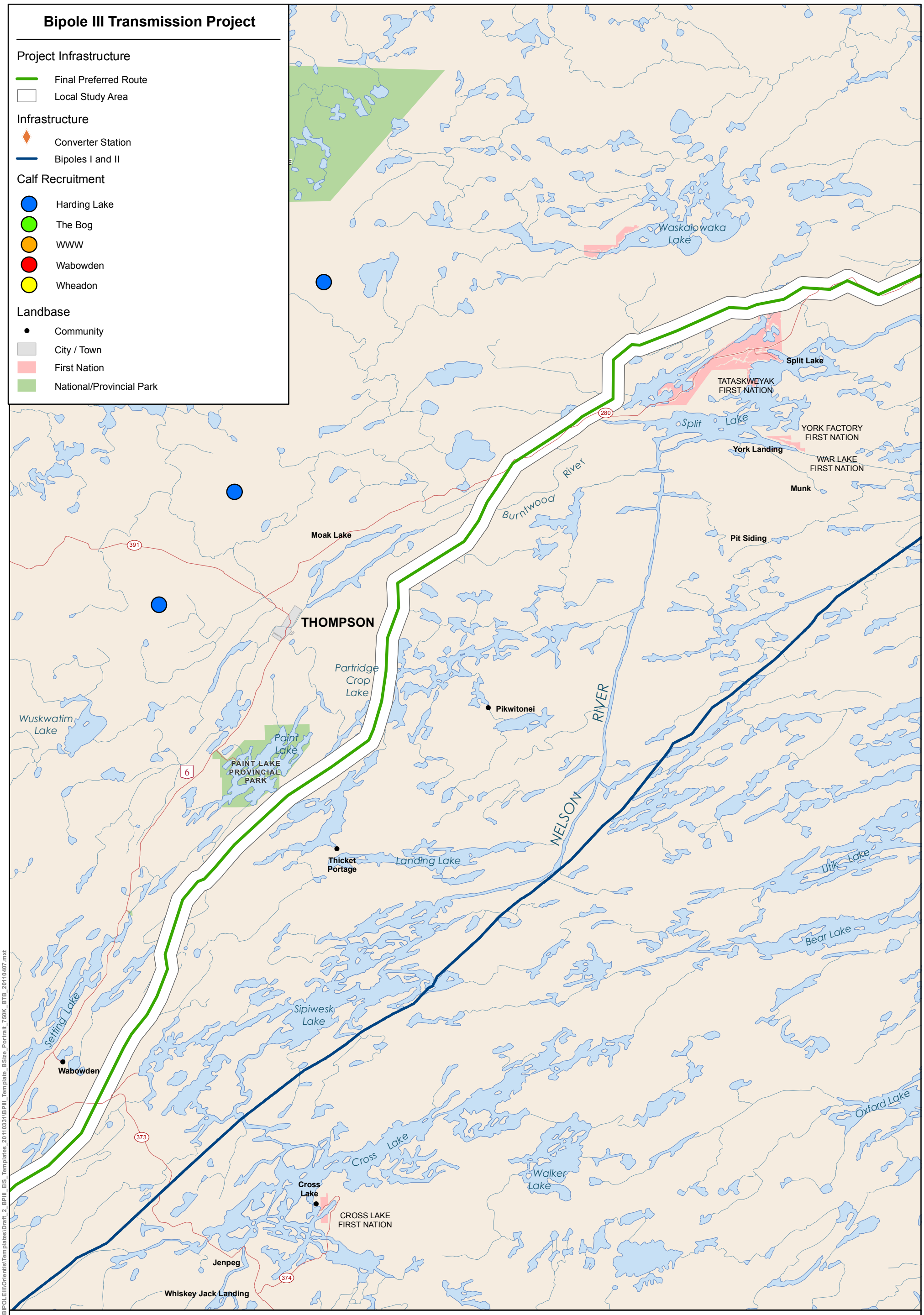
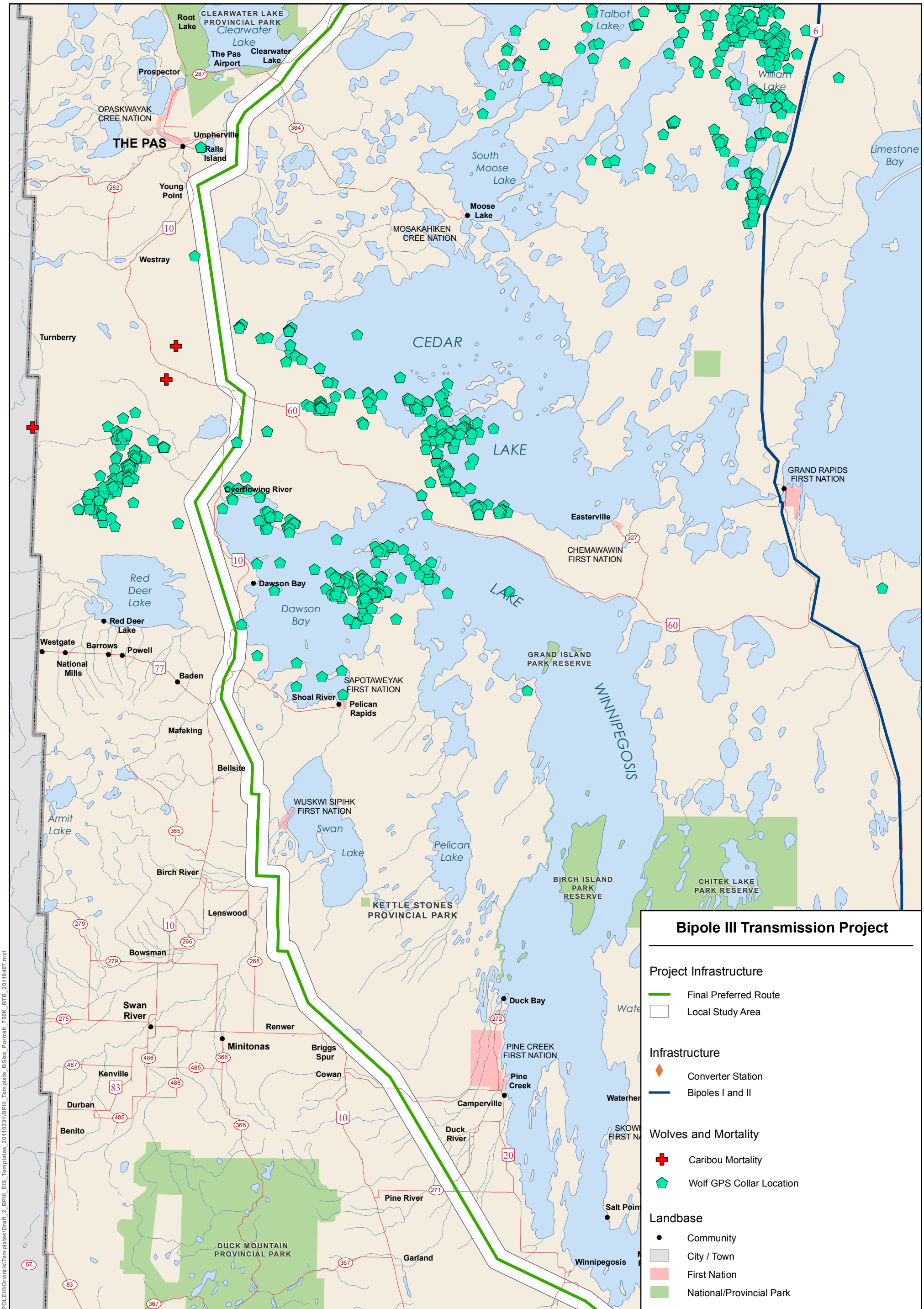
Calf Recruitment Surveys
Distribution of Calf Observations in Summer 2010
Map 1100-02


Bipole III Transmission Project
Project Infrastructure
Final Preferred Route
Local Study Area
Infrastructure
Converter Station
Bipoles I and II
Calf Recruitment
Harding Lake
The Bog
WWW
Wabowden
Wheadon
Landbase
Community
City / Town
First Nation
National/Provincial Park
Waskaiowaka Lake
Split Lake
TATASKWEYAK FIRST NATION
Split Lake
YORK FACTORY FIRST NATION
York Landing
WAR LAKE FIRST NATION
Munk
Burntwood River
Moak Lake
Pit Siding
THOMPSON
Partridge Crop Lake
Pikwitonei
NELSON RIVER
Wuskwatim Lake
Paint Lake
PAINT LAKE PROVINCIAL PARK
Thicket Portage
Landing Lake
Utik Lake
Bear Lake
Setting Lake
Sipiwesk Lake
Wabowden
Oxford Lake
Cross Lake
Walker Lake
Cross Lake
CROSS LAKE FIRST NATION
Jenpeg
Whiskey Jack Landing
280
391
6
373
374
Manitoba Hydro
Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011
0 5 10 Kilometres
0 5 10 Miles
N
1:750,000
Calf Recruitment Surveys
Distribution of Calf Observations in Summer 2010
Map 1100-03
File Location: :\GIS\PROJECTS\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011

0 5 10 Kilometres
0 5 10 Miles

N

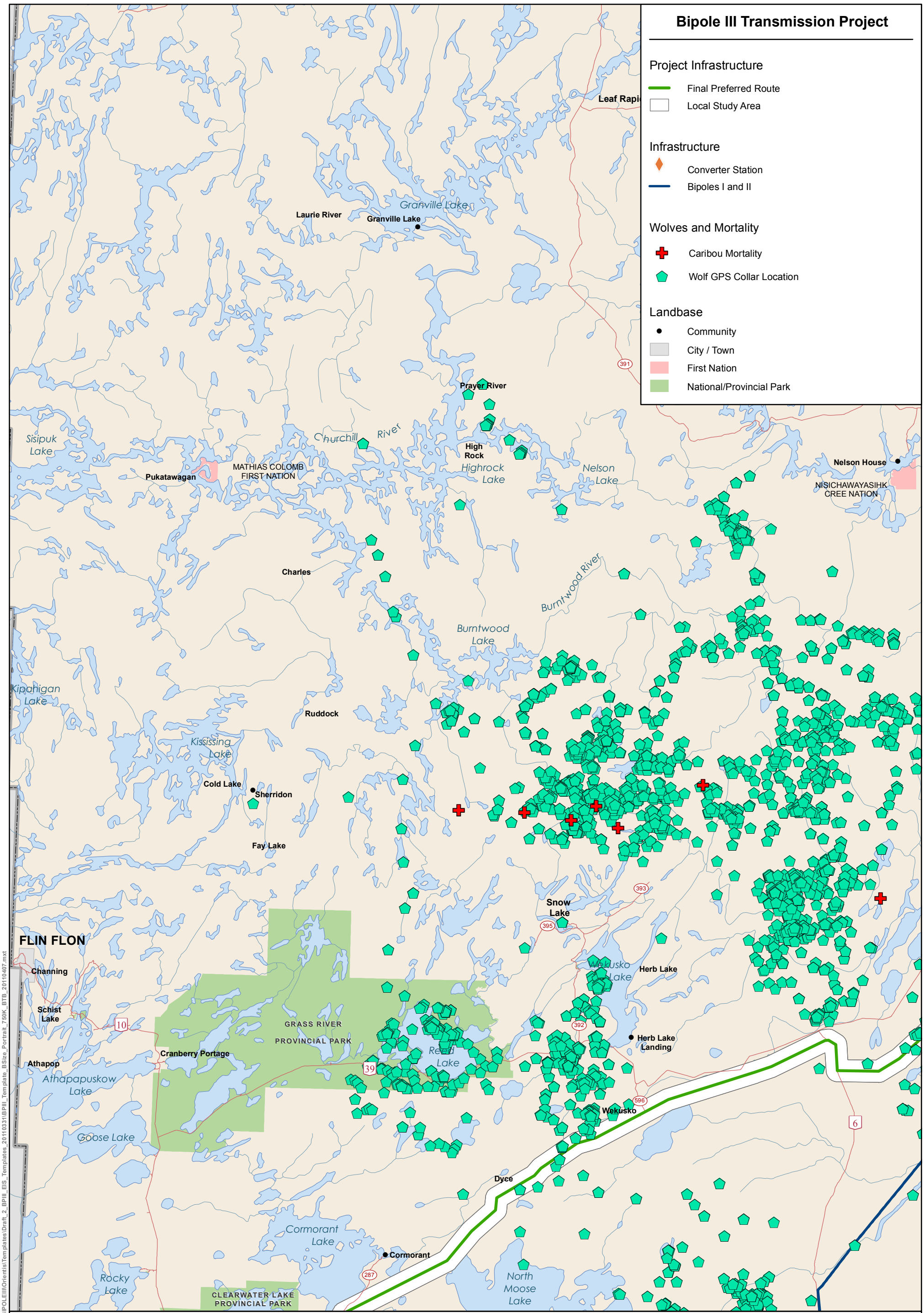
1:750,000

Caribou Mortality and Wolves

Relationship Between the Distribution of Wolves and Adult Female Caribou Mortality 2009-2010

Map 1200-01

File Location: :\GIS\PROJECTS\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011

0 5 10 Kilometres
0 5 10 Miles

N

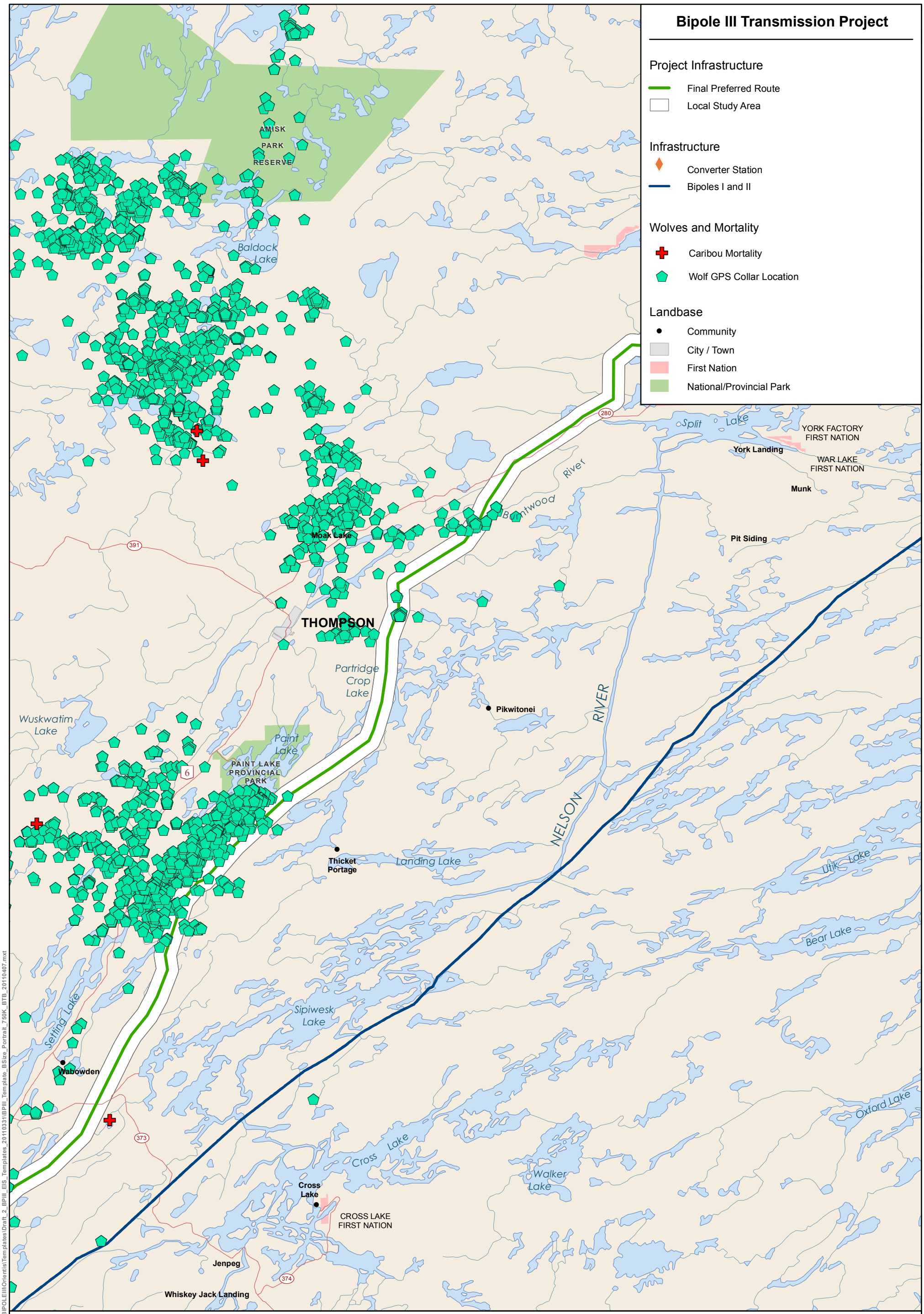
1:750,000

Caribou Mortality and Wolves

Relationship Between the Distribution of Wolves and Adult Female Caribou Mortality 2009-2010

Map 1200-02

File Location: :\GIS\PROJECTS\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 24, 2011

0 5 10 Kilometres
0 5 10 Miles

N

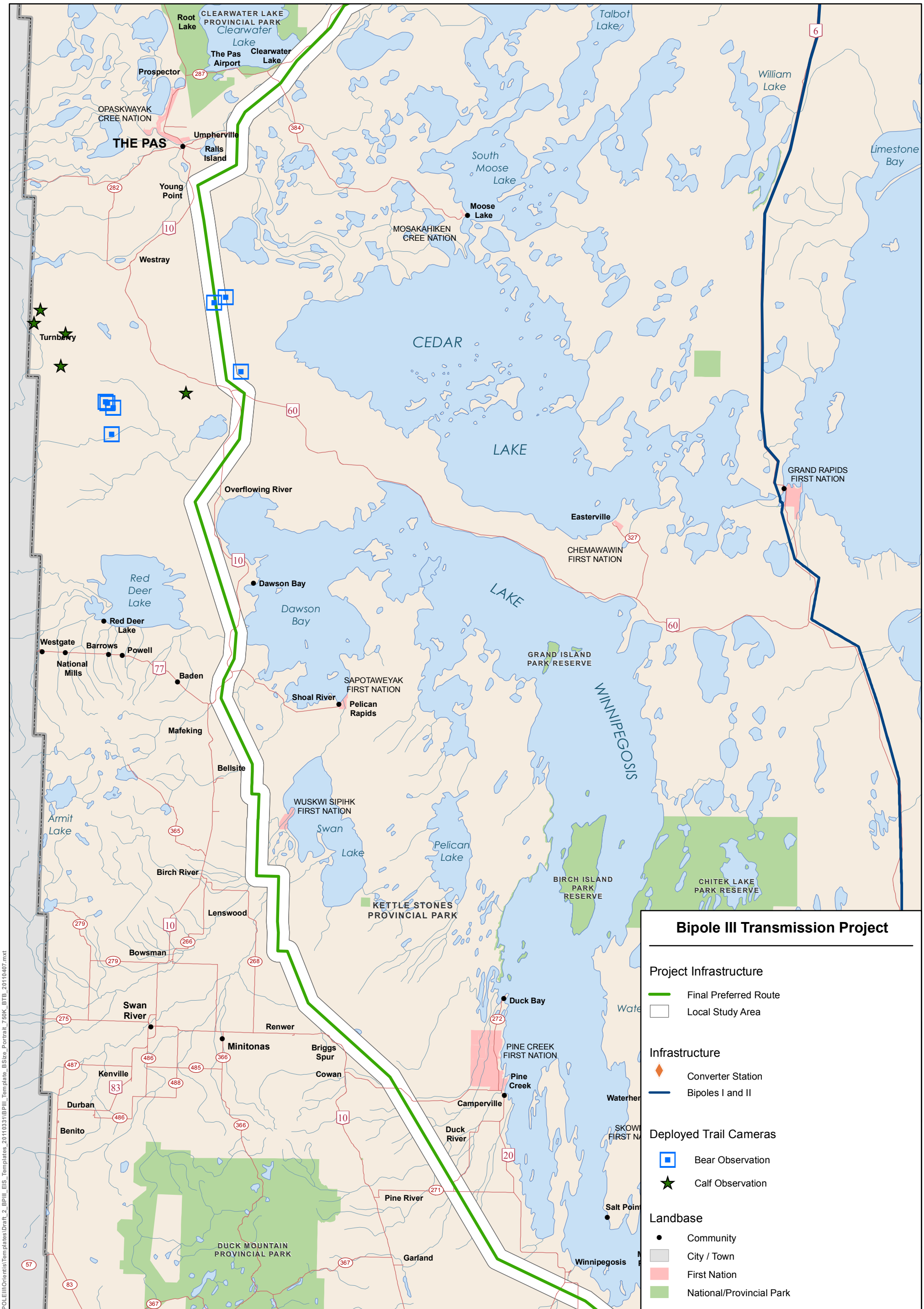
1:750,000

Caribou Mortality and Wolves

Relationship Between the Distribution of Wolves and Adult Female Caribou Mortality 2009-2010

Map 1200-03

File Location: :\GIS\PROJECTS\B\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 29, 2011

0 5 10 Kilometres
0 5 10 Miles

N

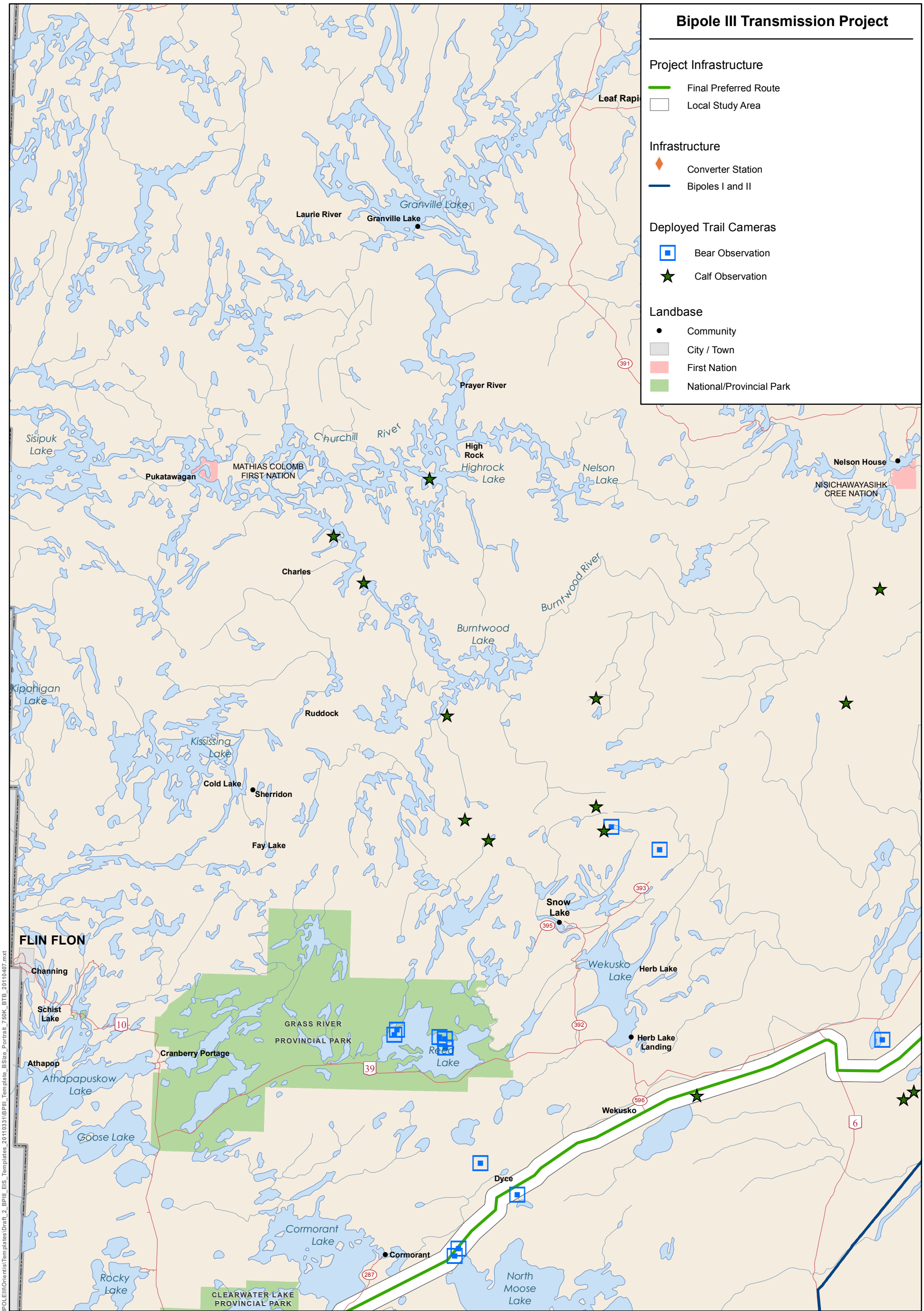
1:750,000

Bear and Boreal Caribou Calf Distribution

Relationship Between Calf Mortality and Bear Distribution Recorded Using Trail Cameras (2010)

Map 1300-01

File Location: :\GIS\PROJECTS\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 29, 2011

0 5 10 Kilometres
0 5 10 Miles

N

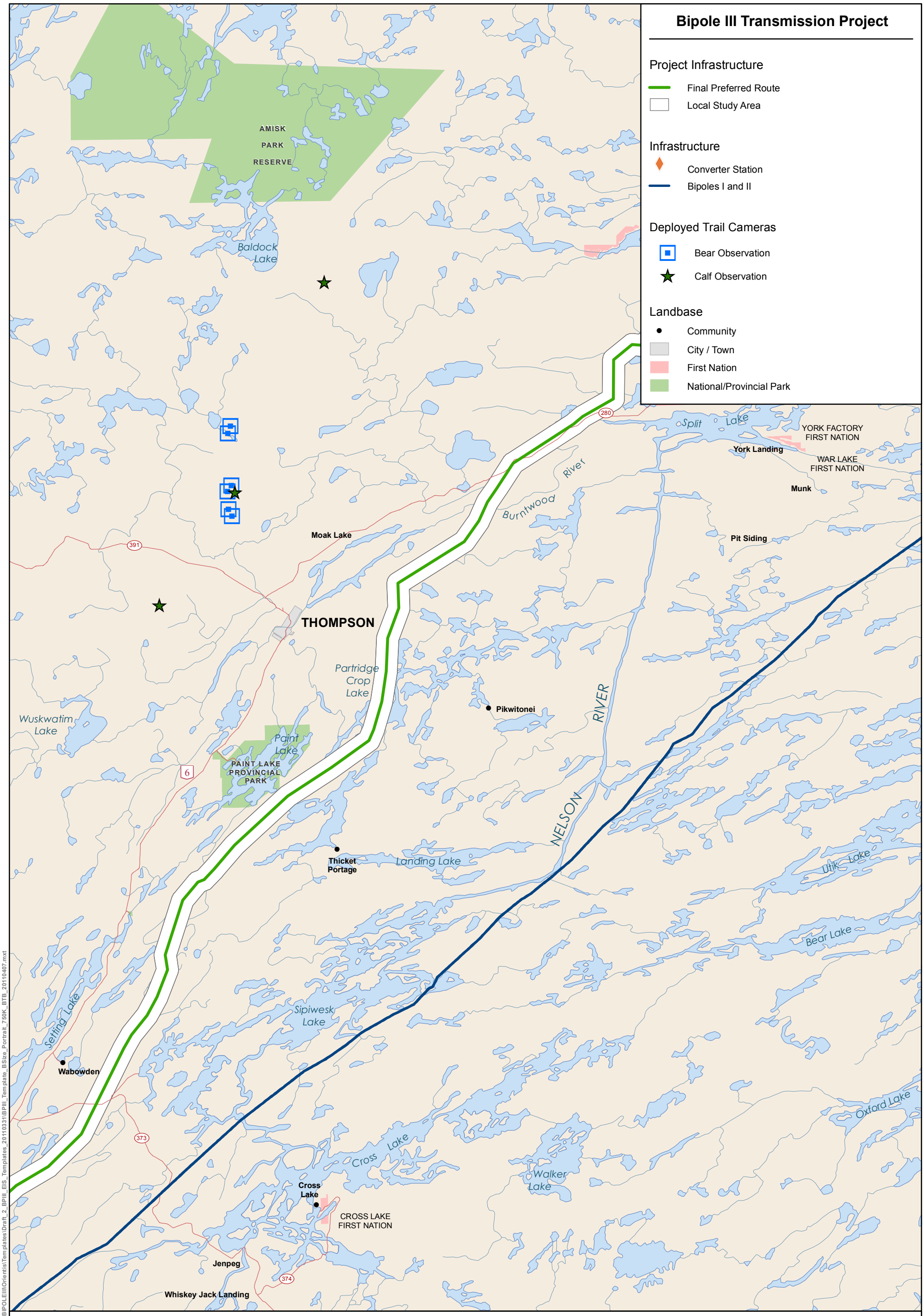
1:750,000

Bear and Boreal Caribou Calf Distribution

Relationship Between Calf Mortality and Bear Distribution Recorded Using Trail Cameras (2010)

Map 1300-02

File Location: :\GIS\PROJECTS\B\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB, Joro, WRCS
Date Created: October 29, 2011

0 5 10 Kilometres
0 5 10 Miles

N

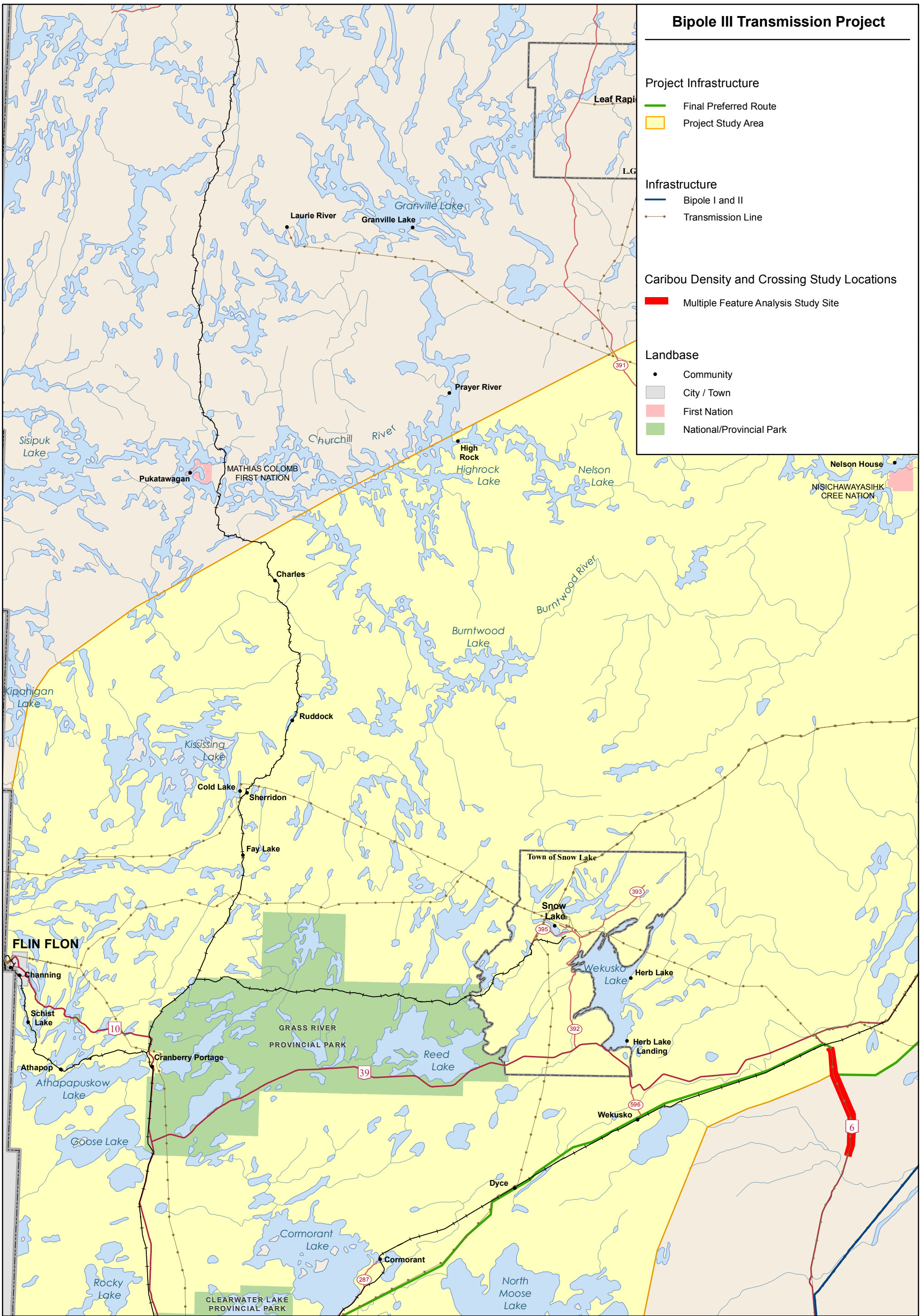
1:750,000

Bear and Boreal Caribou Calf Distribution

Relationship Between Calf Mortality and Bear Distribution Recorded Using Trail Cameras (2010)

Map 1300-03

File Location: :\GIS\PROJECTS\BIPOLEIII\Orientis\Templates\Draft_2_BPIII_EIS_Templates_20110331\BPIII_Template_BSize_Portrait_750K_BTB_20110407.mxt



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

0 6 12 Kilometres
0 6 12 Miles

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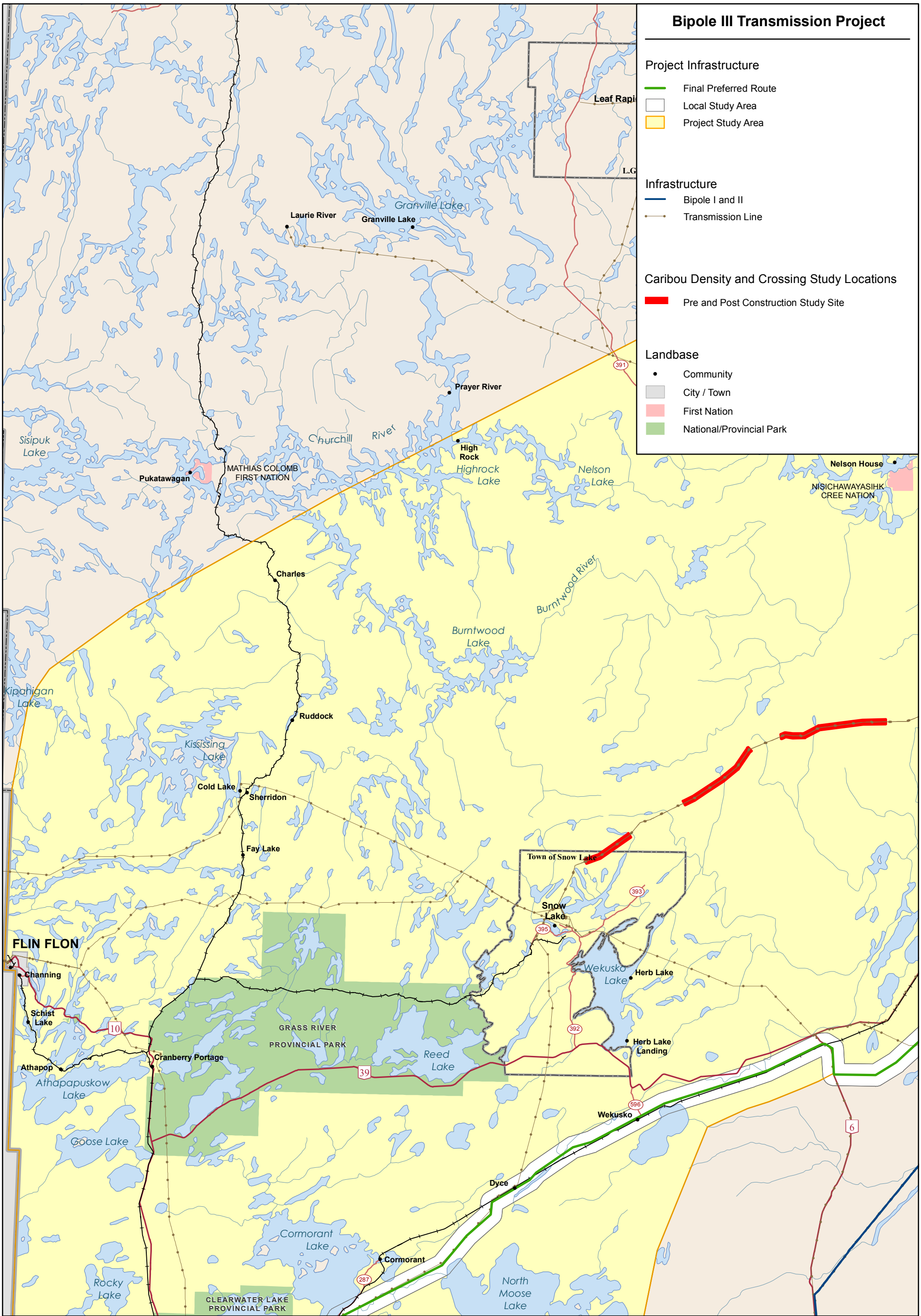
1:750,000

Multiple Feature Analysis Study Location

Caribou Density and Crossing Study Locations

Map 19



Manitoba Hydro

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Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

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0 6 12 Miles

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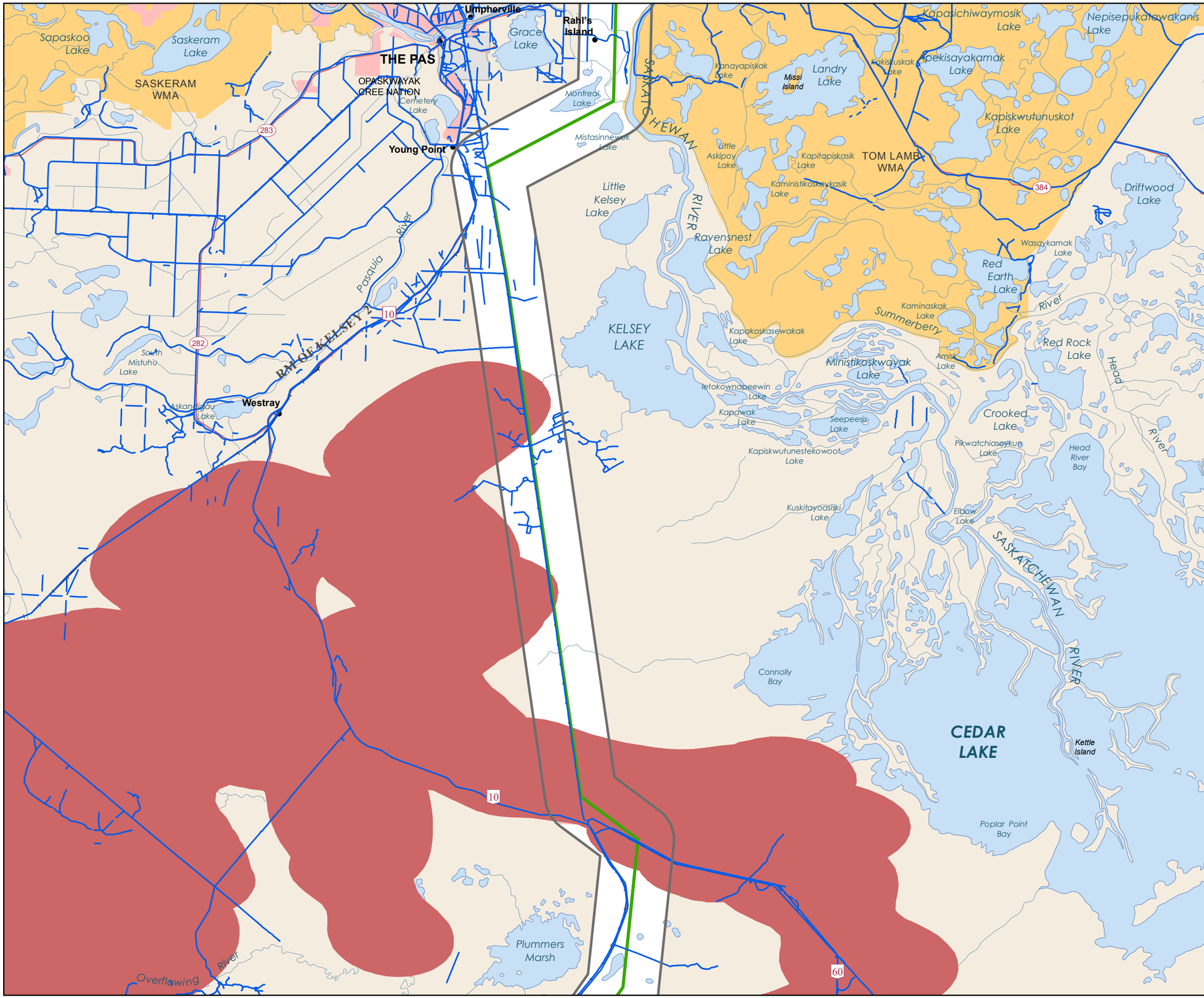
1:750,000

Pre and Post Construction Study Locations

Caribou Density and Crossing Study Locations

Map 20



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- AC Collector Line
- Ground Electrode Line
- Local Study Area

Infrastructure

- Converter Station
- Bipole I and II
- Transmission Line

Core Areas

- The Bog
- Combined Linear Features

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park
- Wildlife Management Area

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

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0 5 10 Kilometres
0 3 6 Miles
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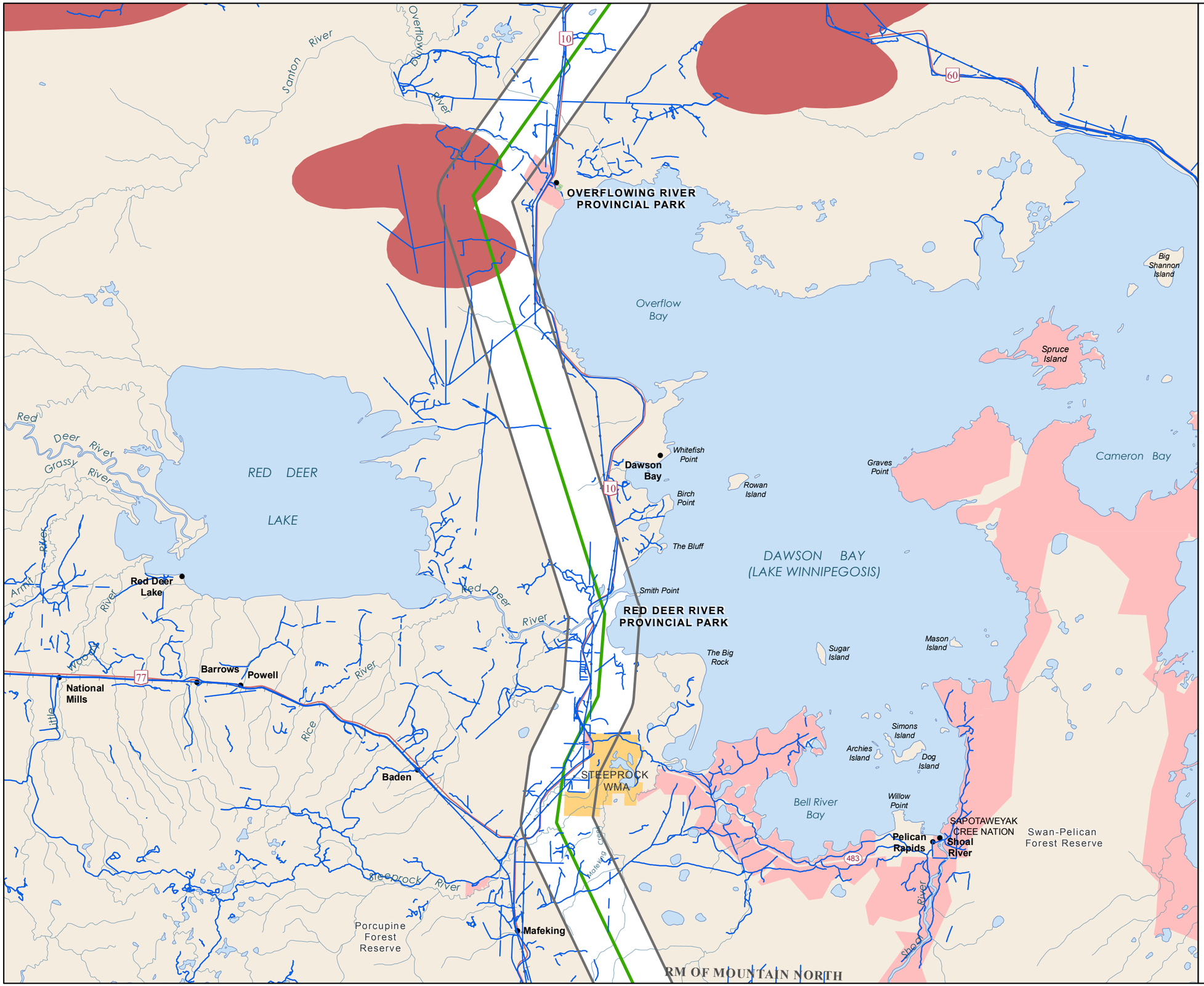
Winter Range Core Use Areas and Intersections with Project Infrastructure

The Bog Core Area

Map Series 1400-01



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- AC Collector Line
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Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

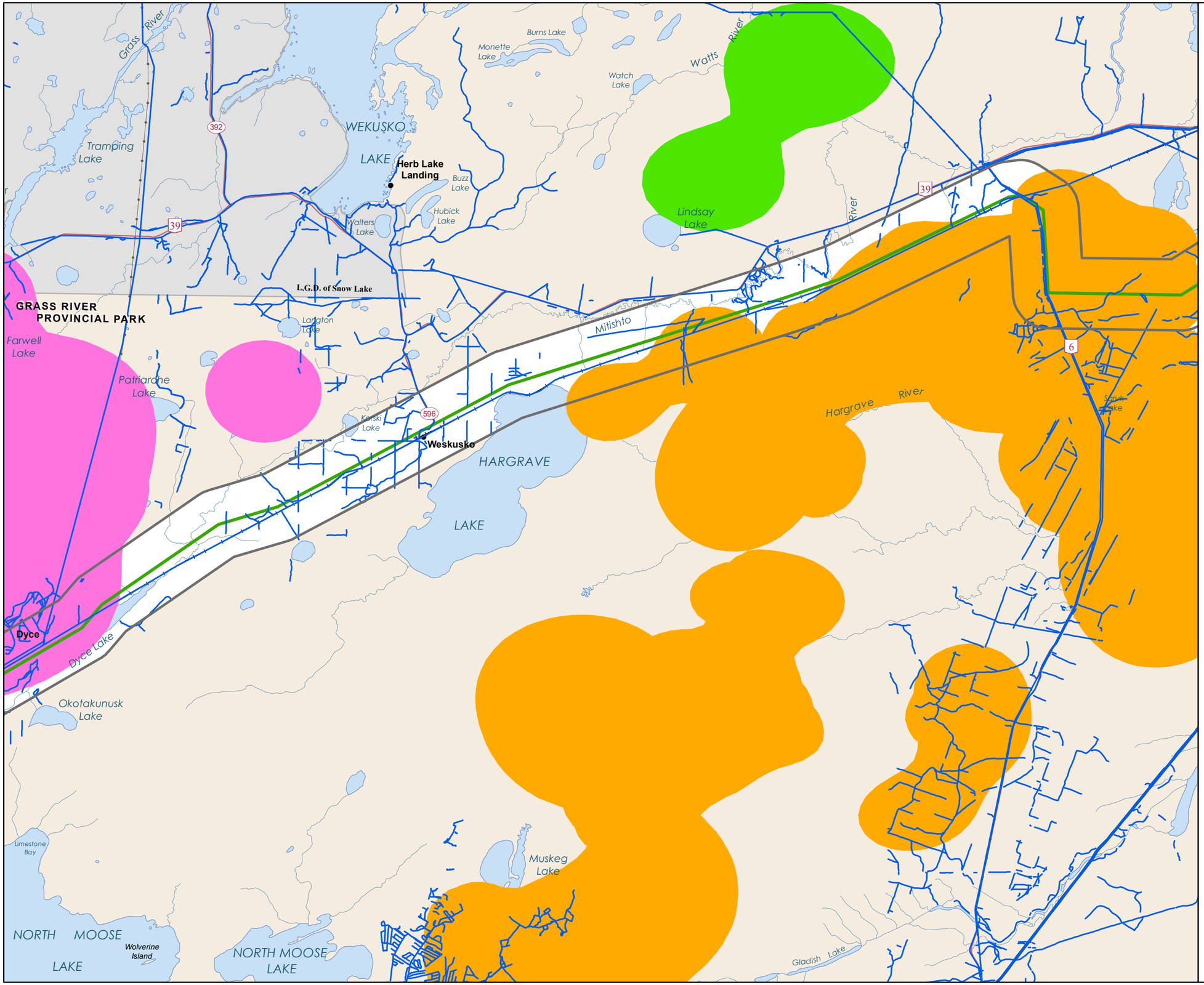
N

0 5 10 Kilometres
0 3 6 Miles
1:250,000

Winter Range Core Use Areas and Intersections with Project Infrastructure

The Bog Core Area

Map Series 1400-02



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- AC Collector Line
- Ground Electrode Line
- Local Study Area

Infrastructure

- Converter Station
- Bipole I and II
- Transmission Line

Core Areas

- Wabowden
- Reed Lake
- WimWap
- Combined Linear Features

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park
- Wildlife Management Area

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

N

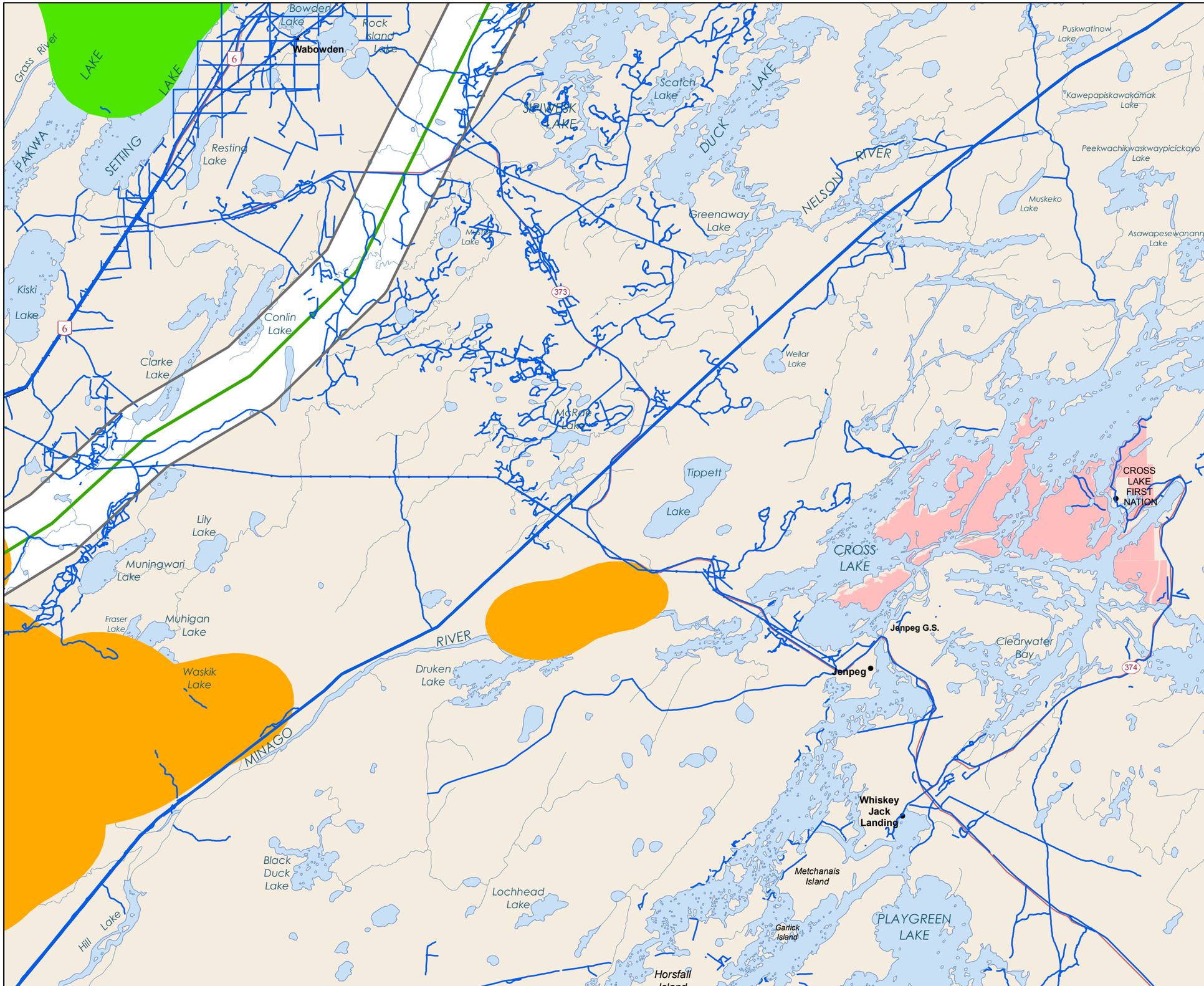
0 5 10 Kilometres
0 3 6 Miles

1:250,000

Winter Range Core Use Areas and Intersections with Project Infrastructure

Wabowden Core Area

Map Series 1500-01



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- AC Collector Line
- Ground Electrode Line
- Local Study Area

Infrastructure

- Converter Station
- Bipole I and II
- Transmission Line

Core Areas

- Wabowden
- Reed Lake
- WimWap
- Combined Linear Features

Landbase

- Community
- City / Town
- First Nation
- National/Provincial Park
- Wildlife Management Area

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 29, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Winter Range Core Use Areas and Intersections with Project Infrastructure

Wabowden Core Area

Map Series 1500-02

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station

Infrastructure

- Converter Station
- Generating Station
- Bipole I and II

Environmentally Sensitive Sites

- Wabowden Winter Core Area

Landbase

- Community
- First Nation Community
- National/Provincial Park

Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB, NRCAN, Joro
Date Created: October 24, 2011

0 25 50 Kilometres
0 25 50 Miles

N

1:2,500,000

Environmentally Sensitive Sites For Caribou

Core Winter Habitat

Map 21