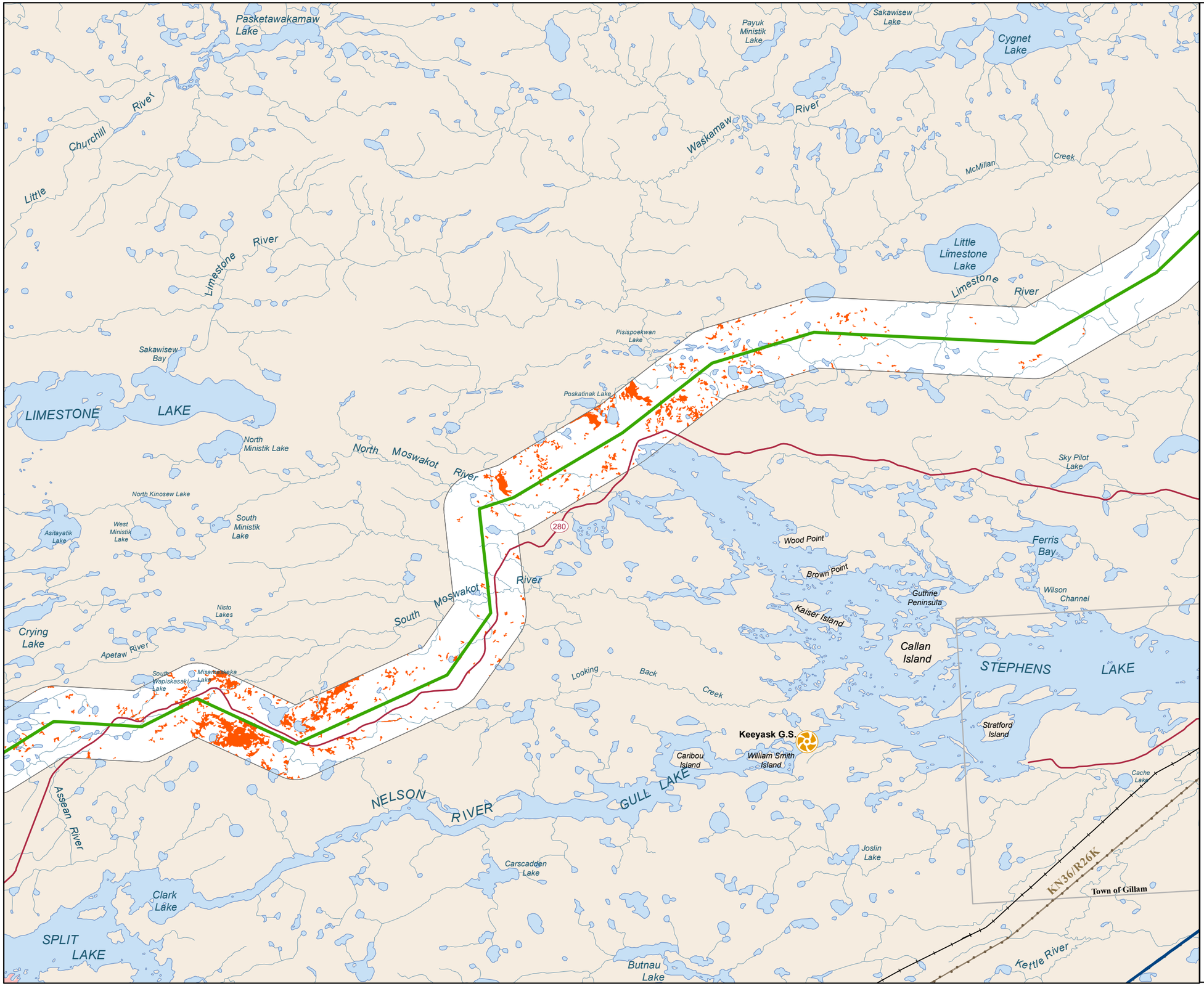


Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-02

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

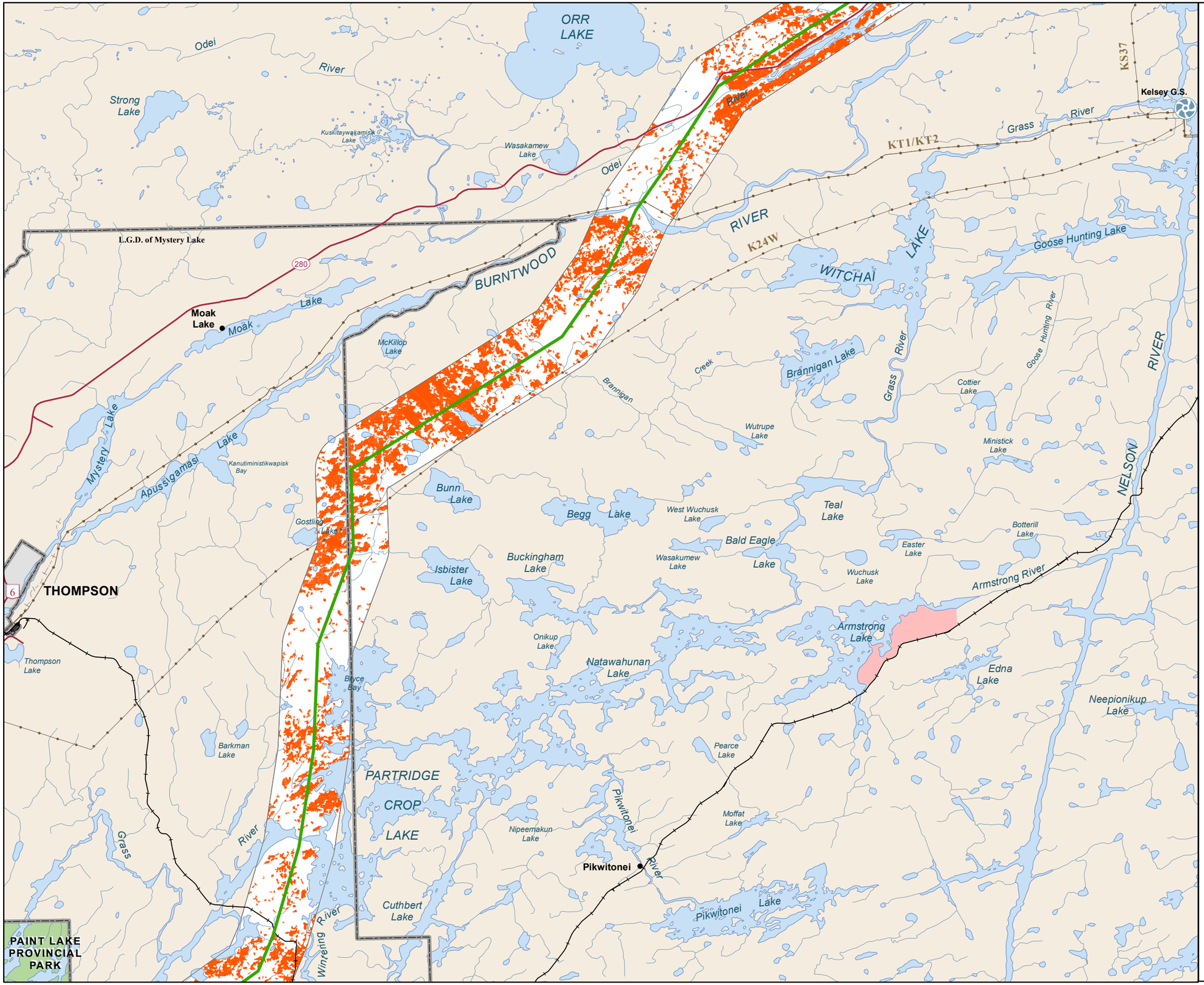
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-03



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

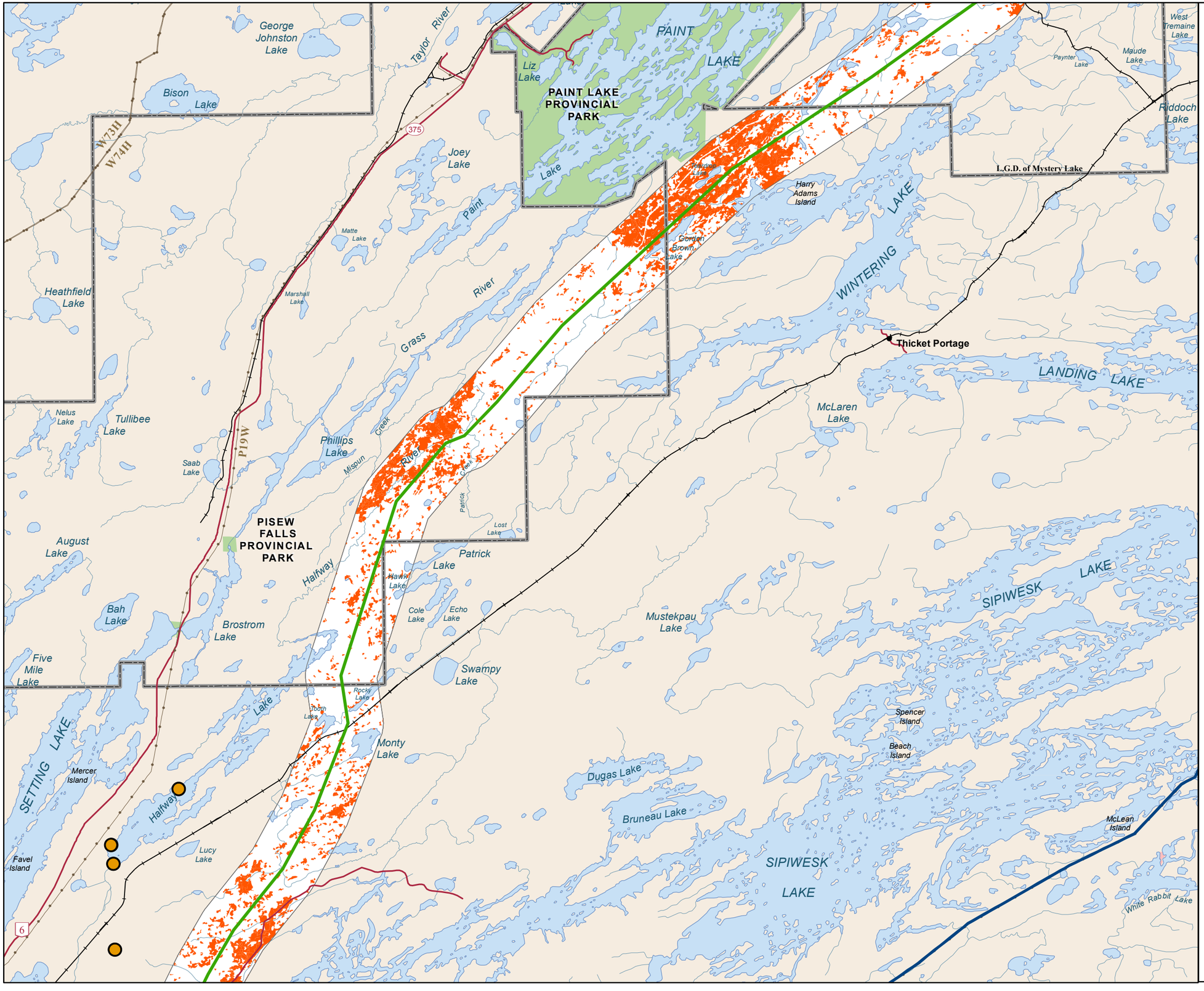
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-04



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

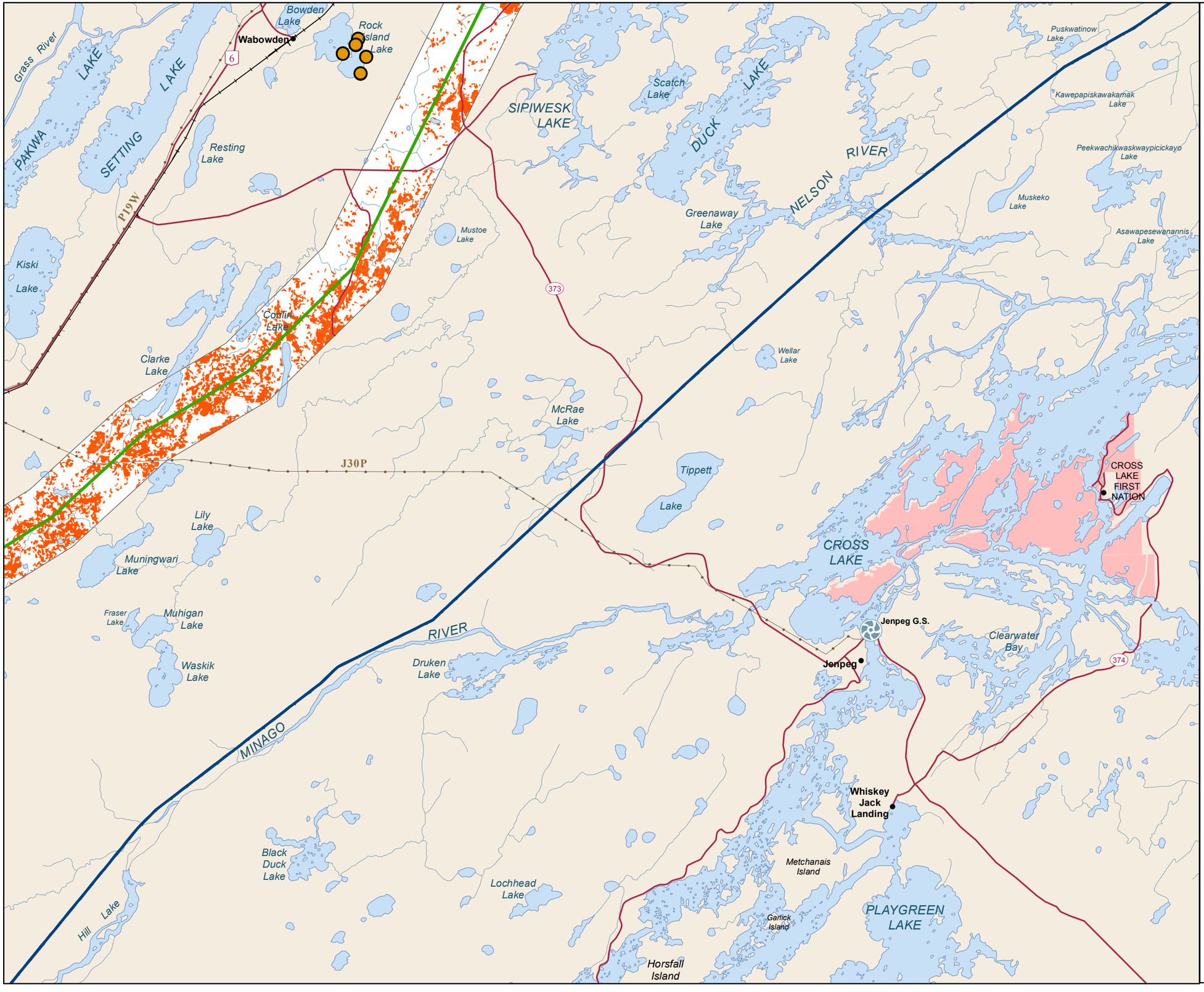
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-05



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-06

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

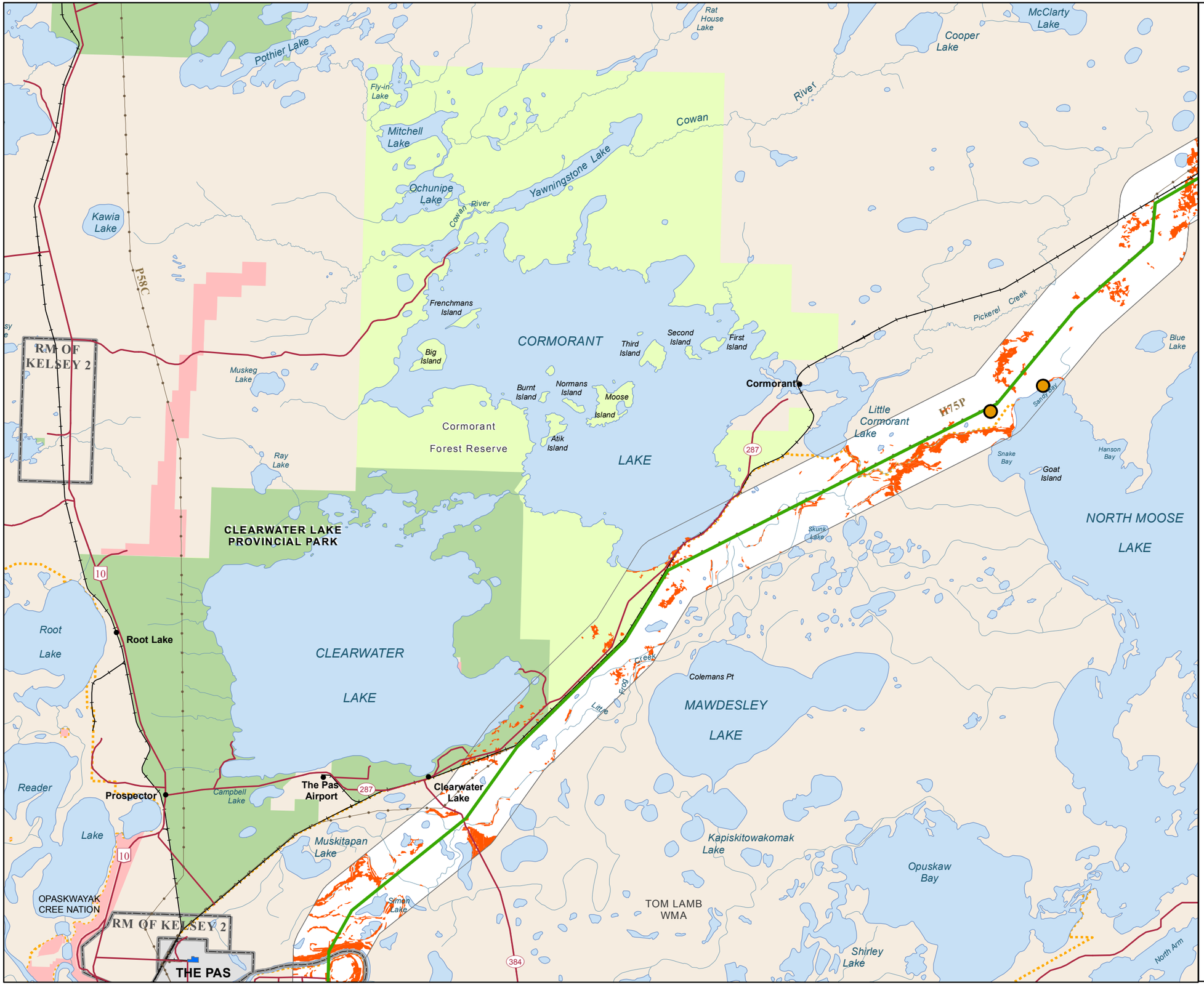
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-07



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-08

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-09

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

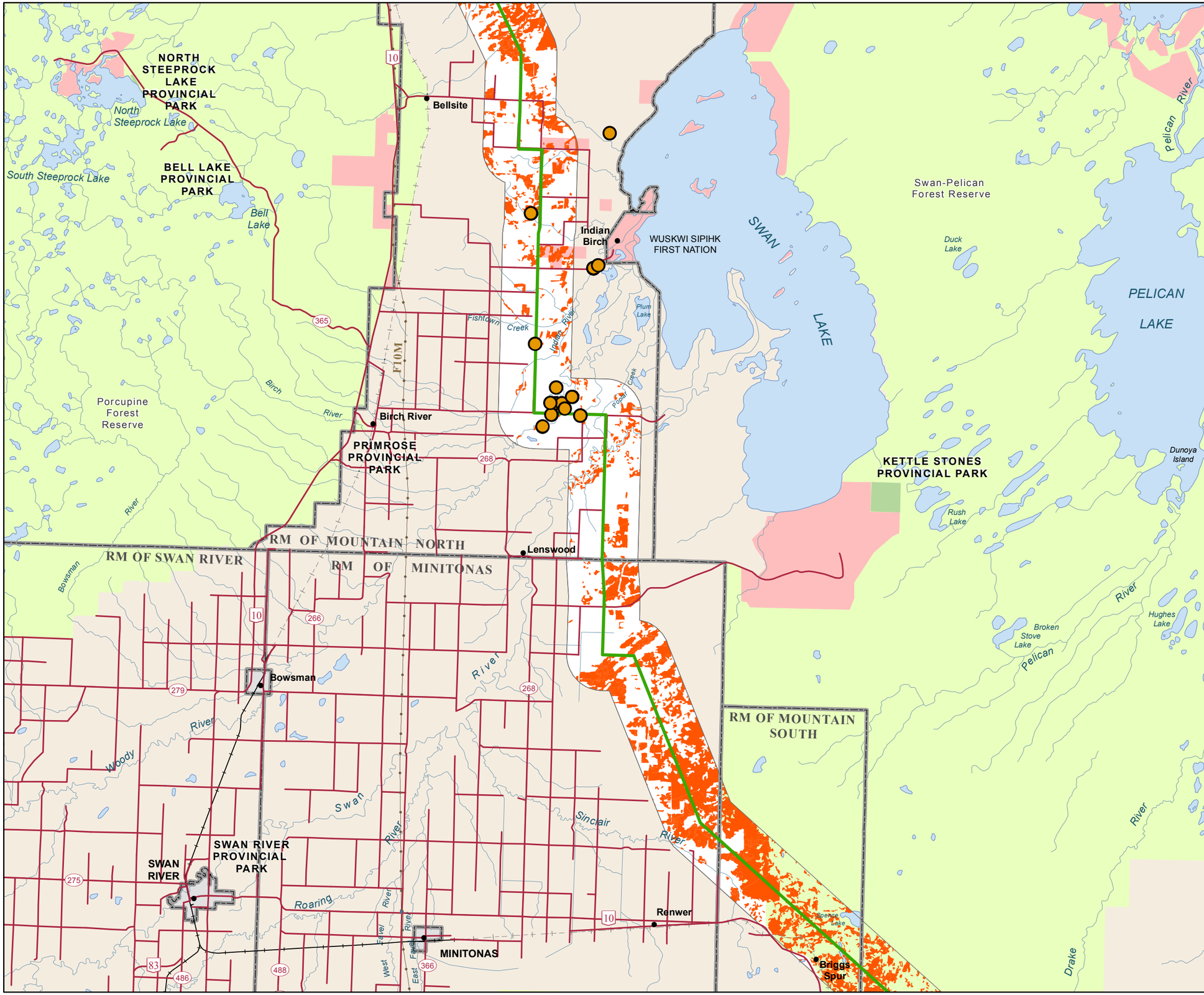
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-10



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-11

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

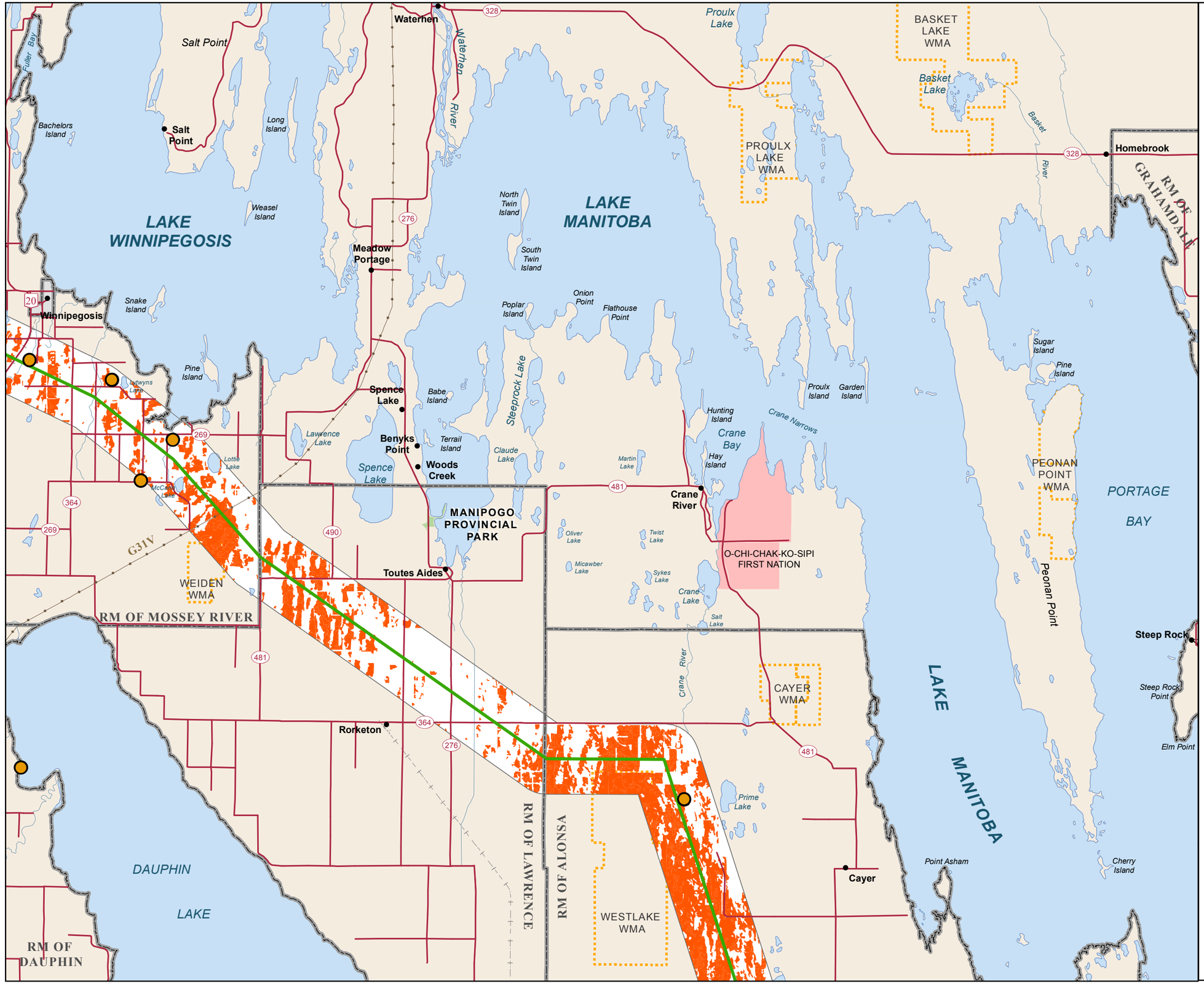
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-12



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-13

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

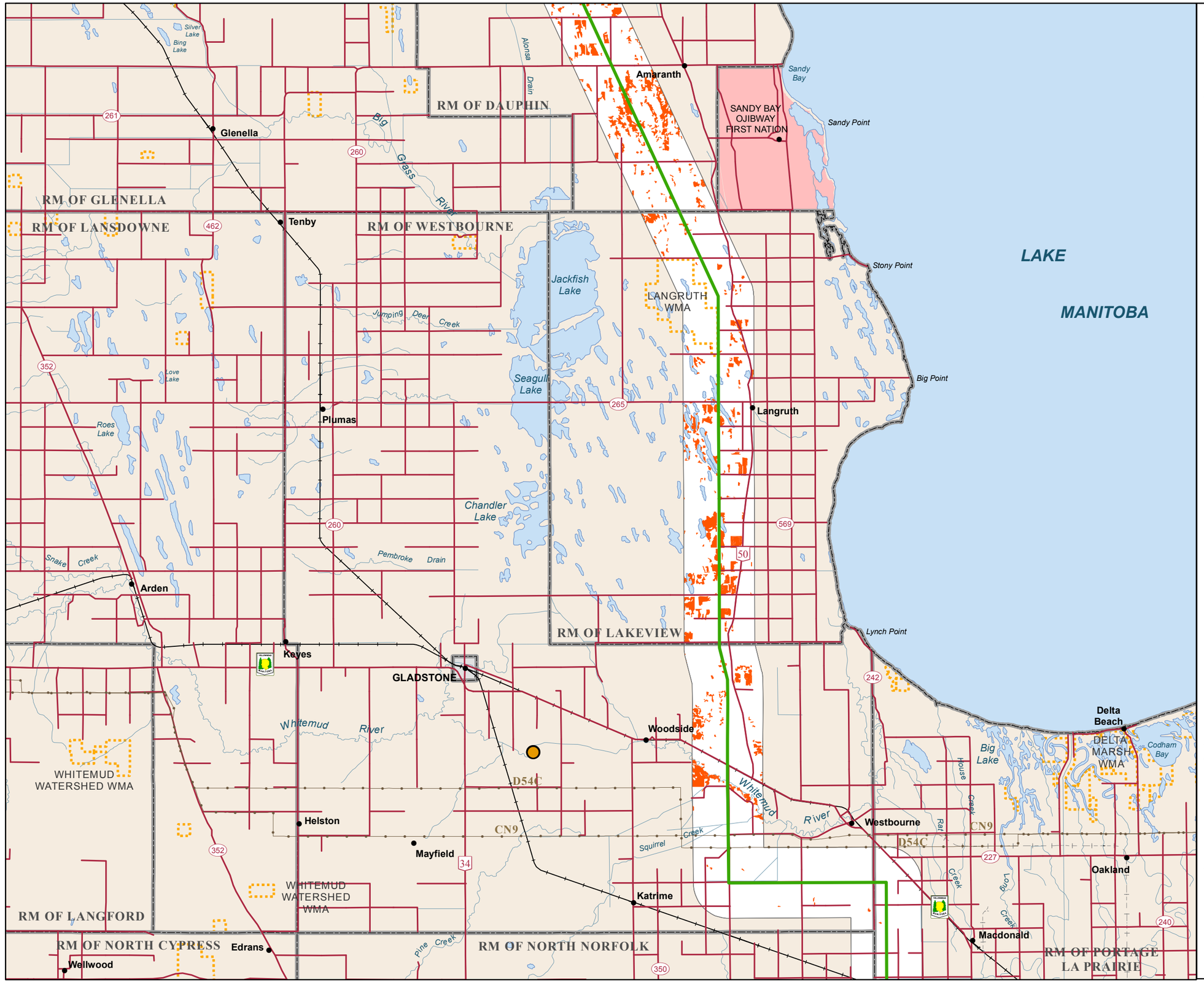
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-14



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-15

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

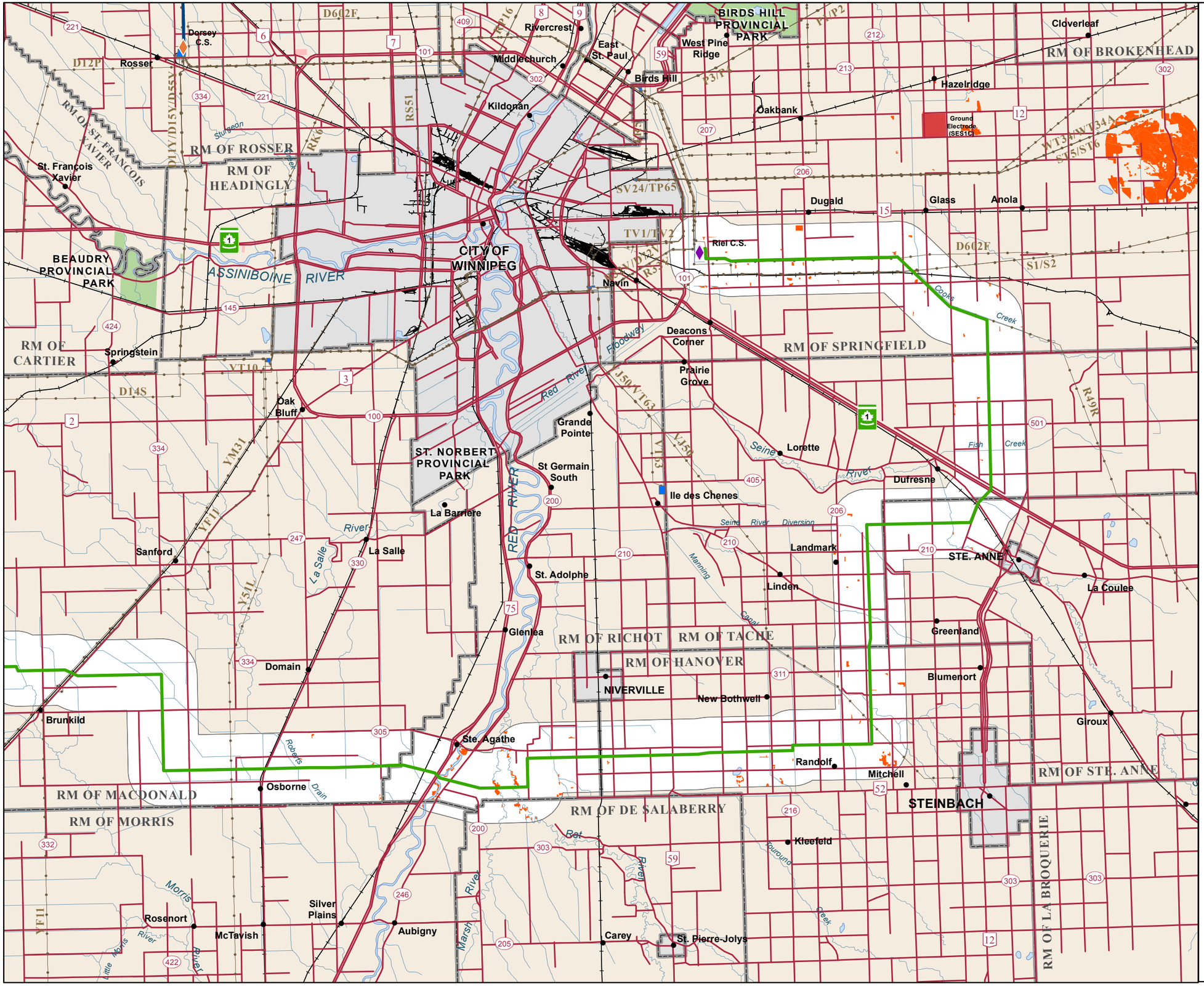
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Great Blue Heron Survey Observations
- Great Blue Heron Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

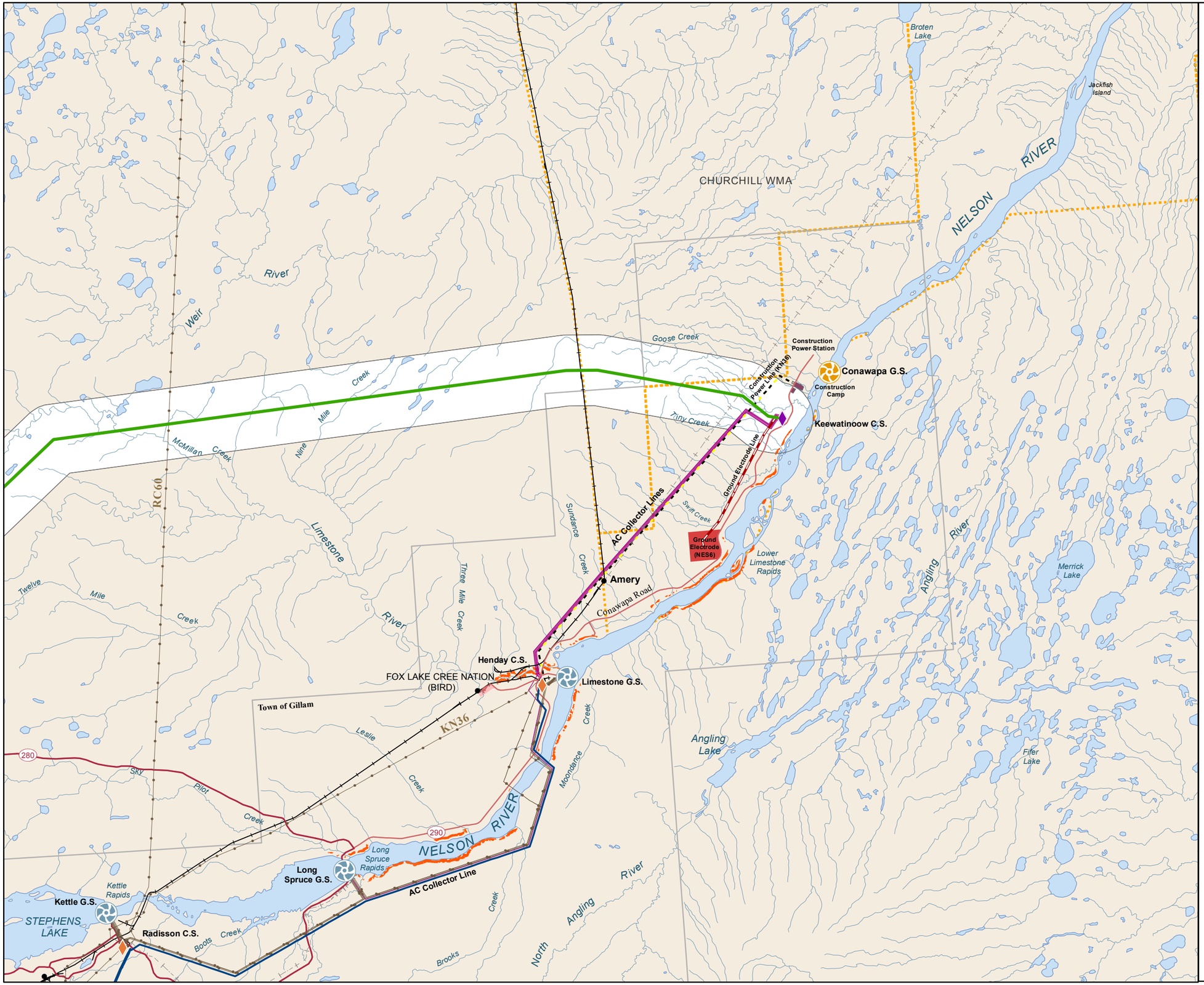
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Great Blue Heron Habitat in the Local Study Area

Map 1400-17



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-01

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-02

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

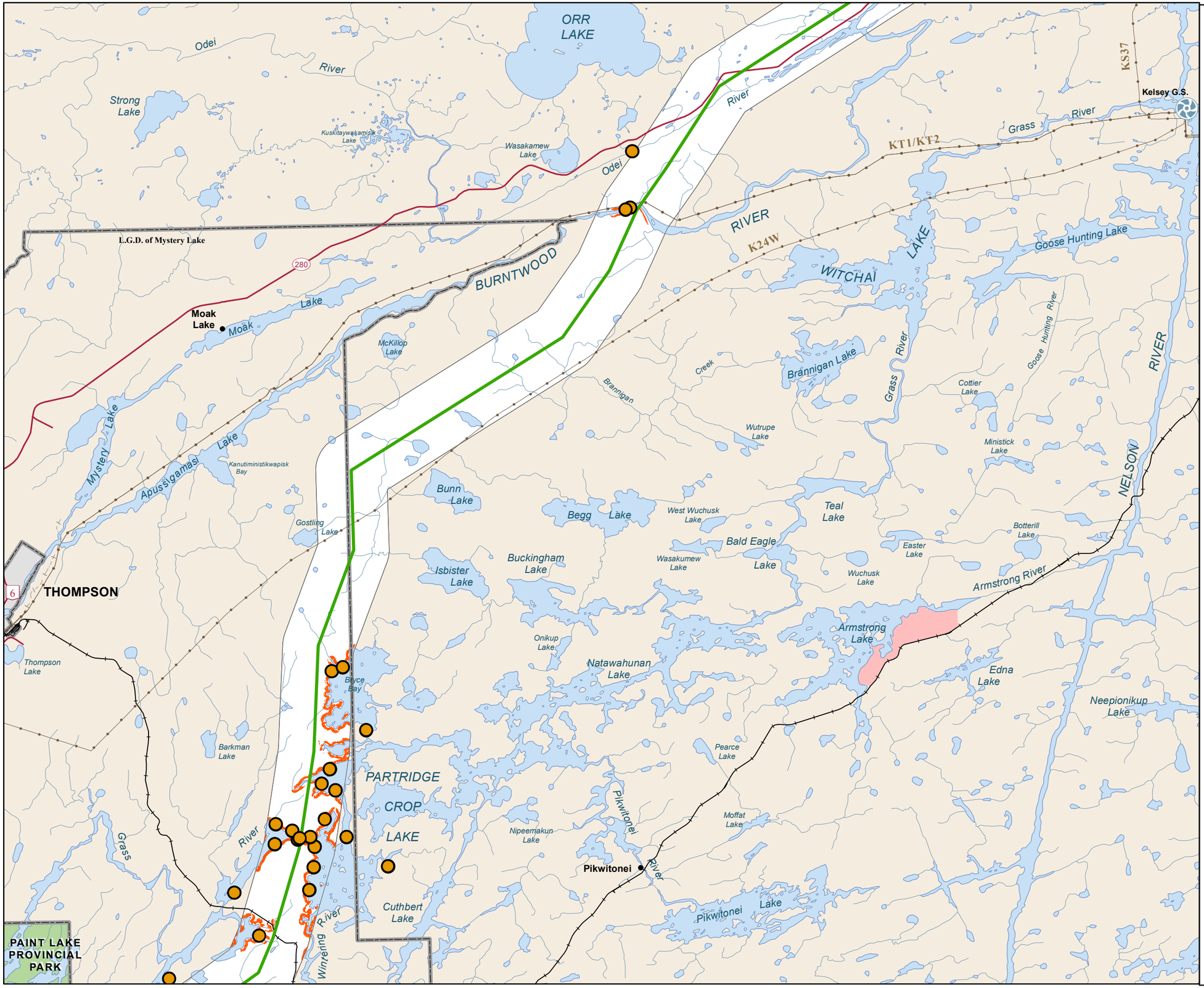
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-03



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-04

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

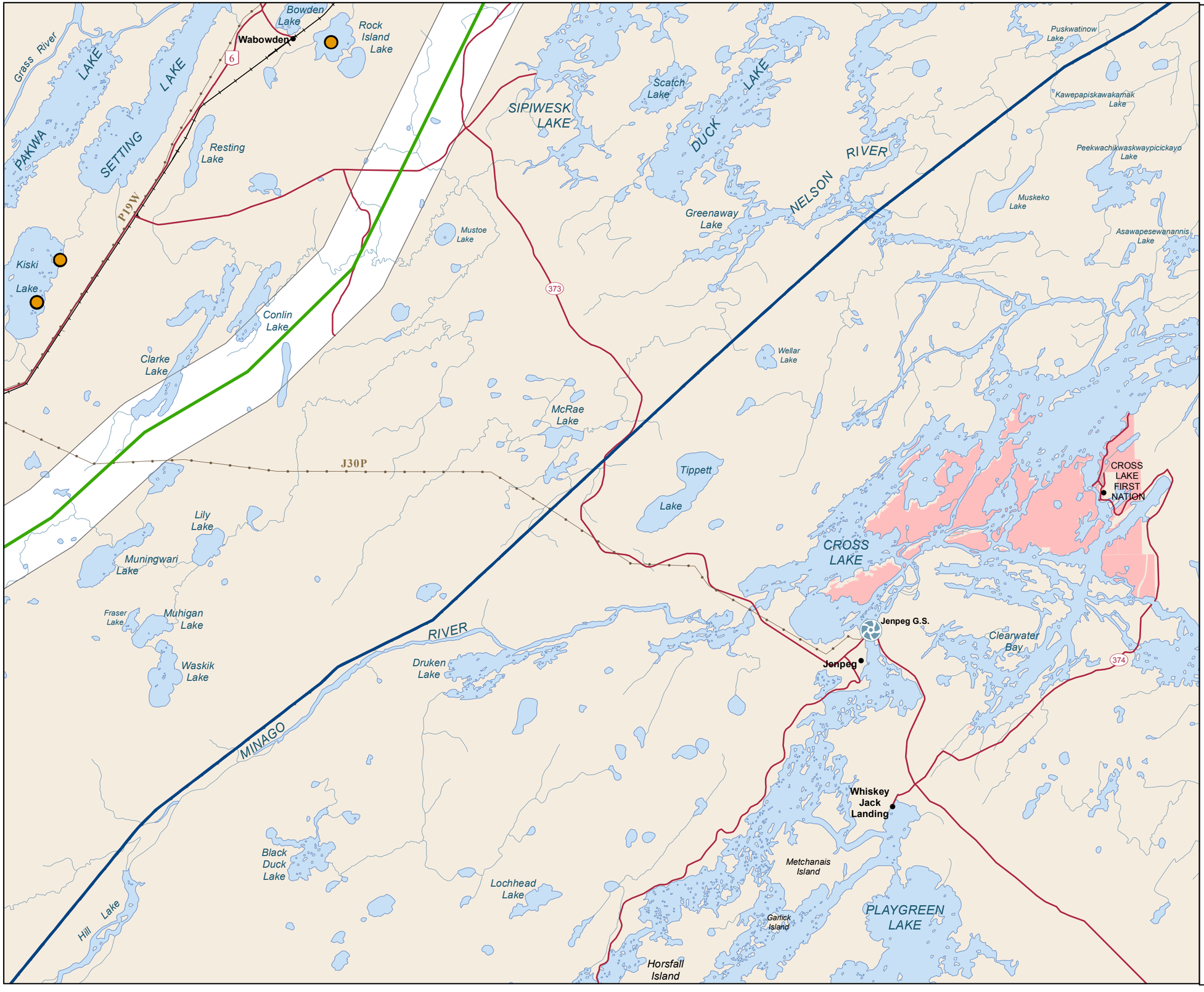
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-05



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-06

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

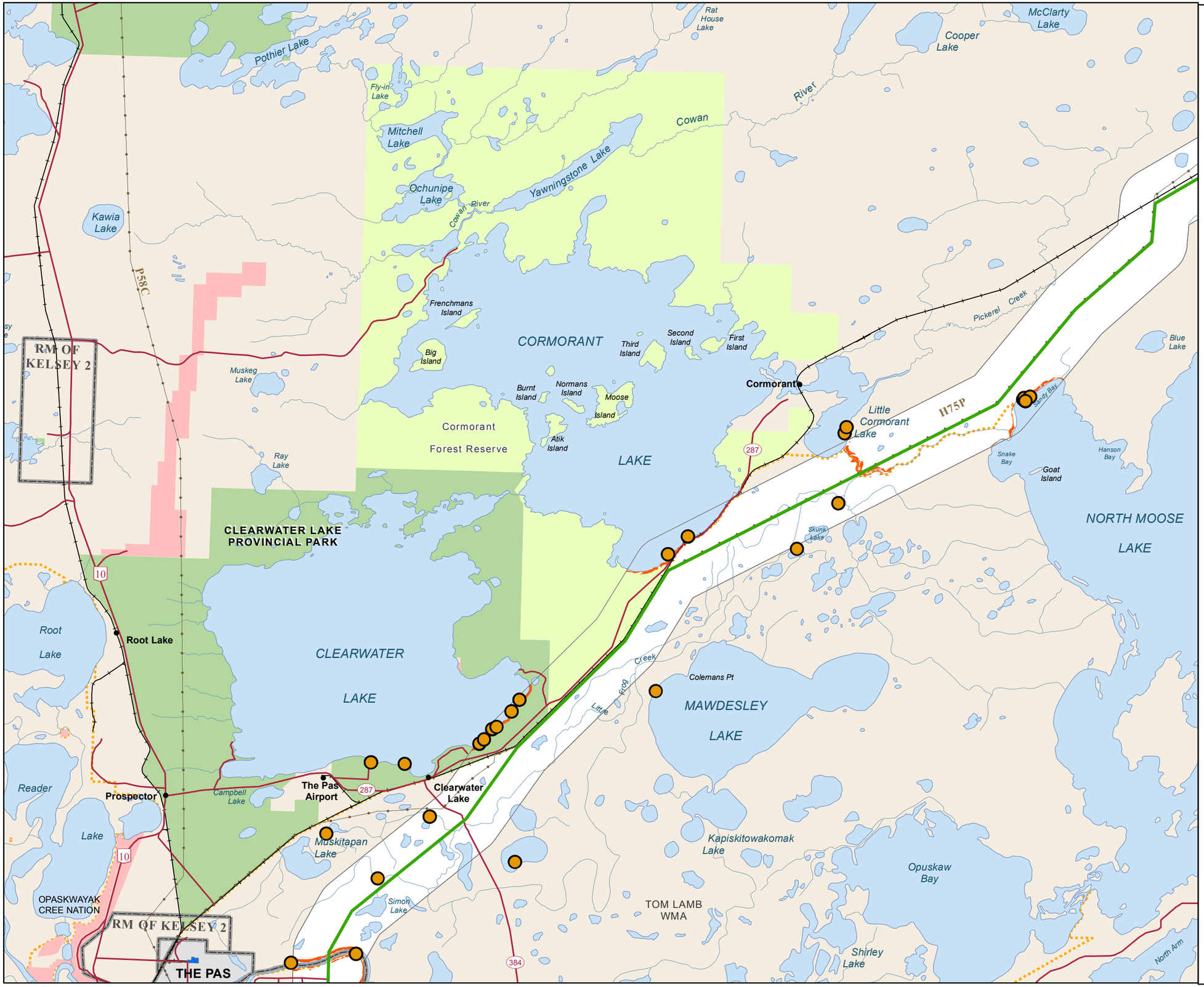
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-07



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

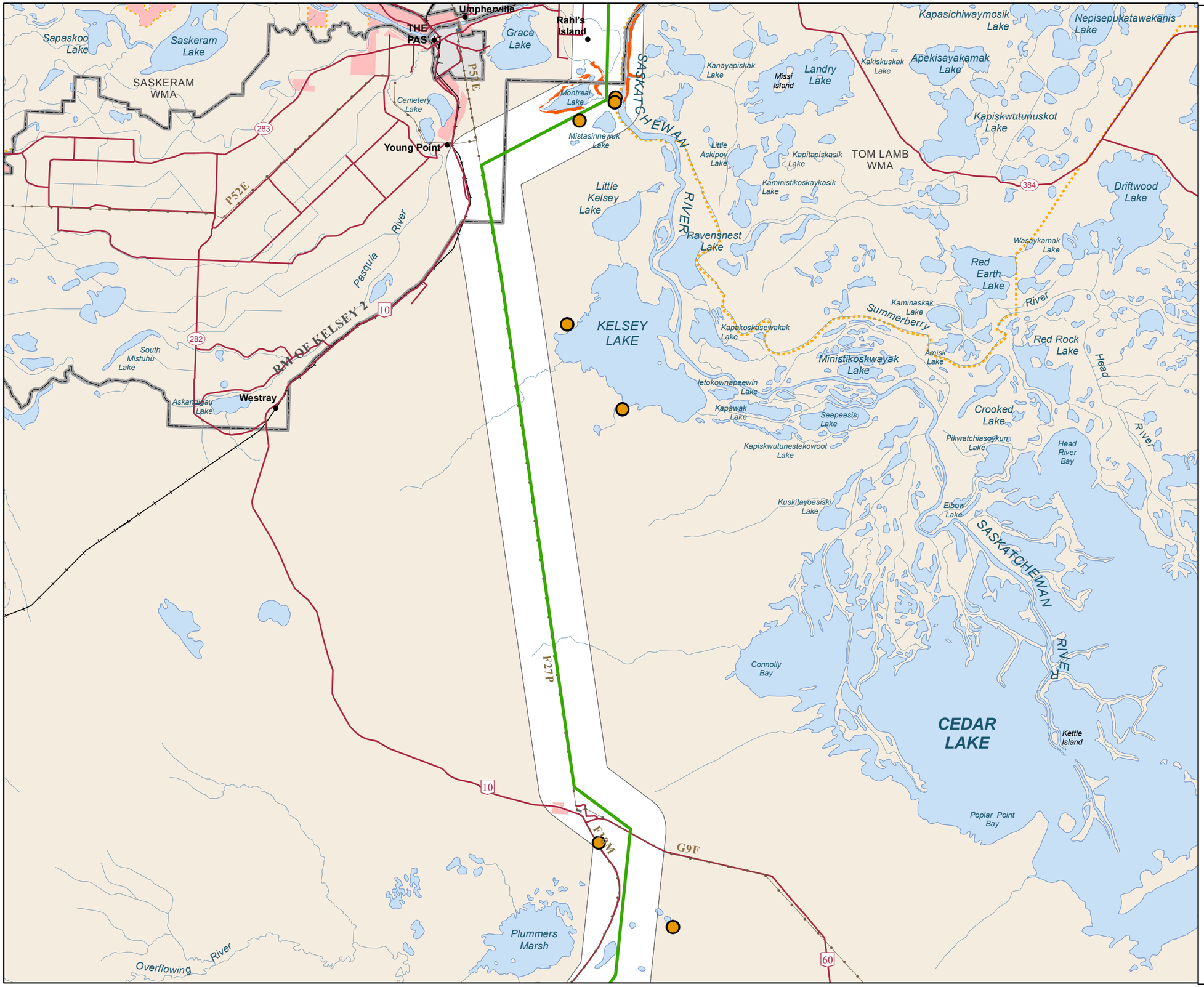
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-08



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

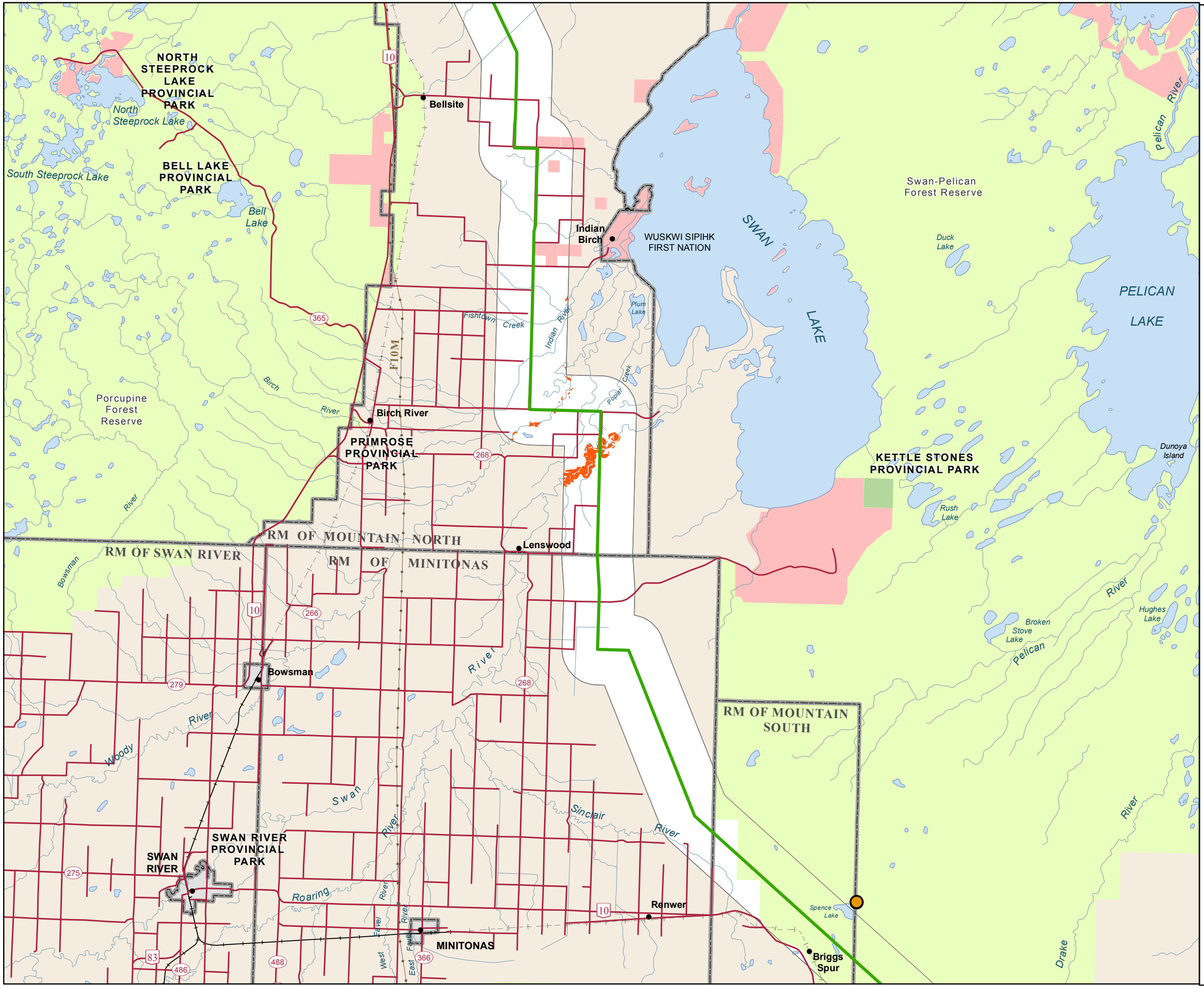
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-09



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-11

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

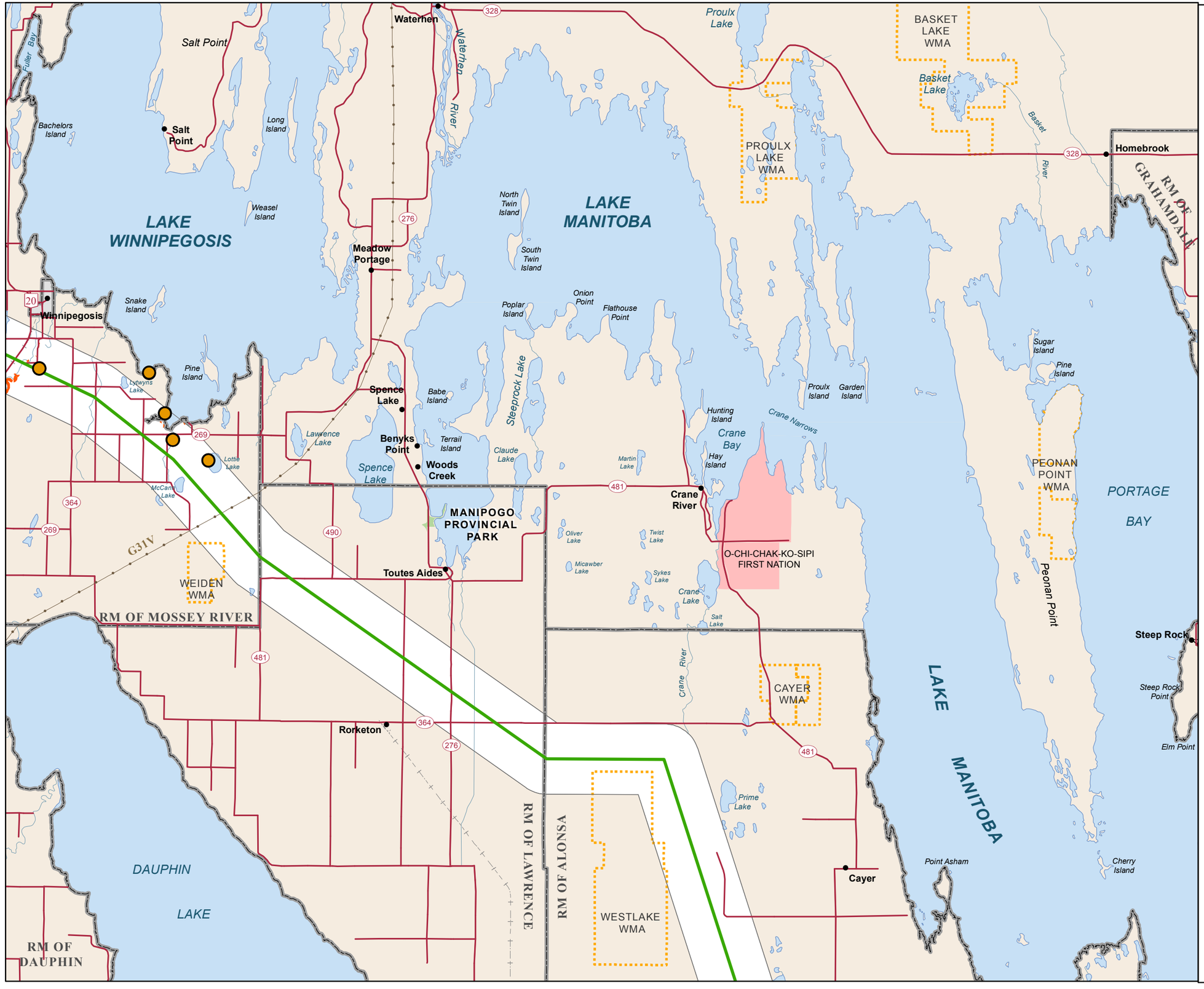
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-12



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

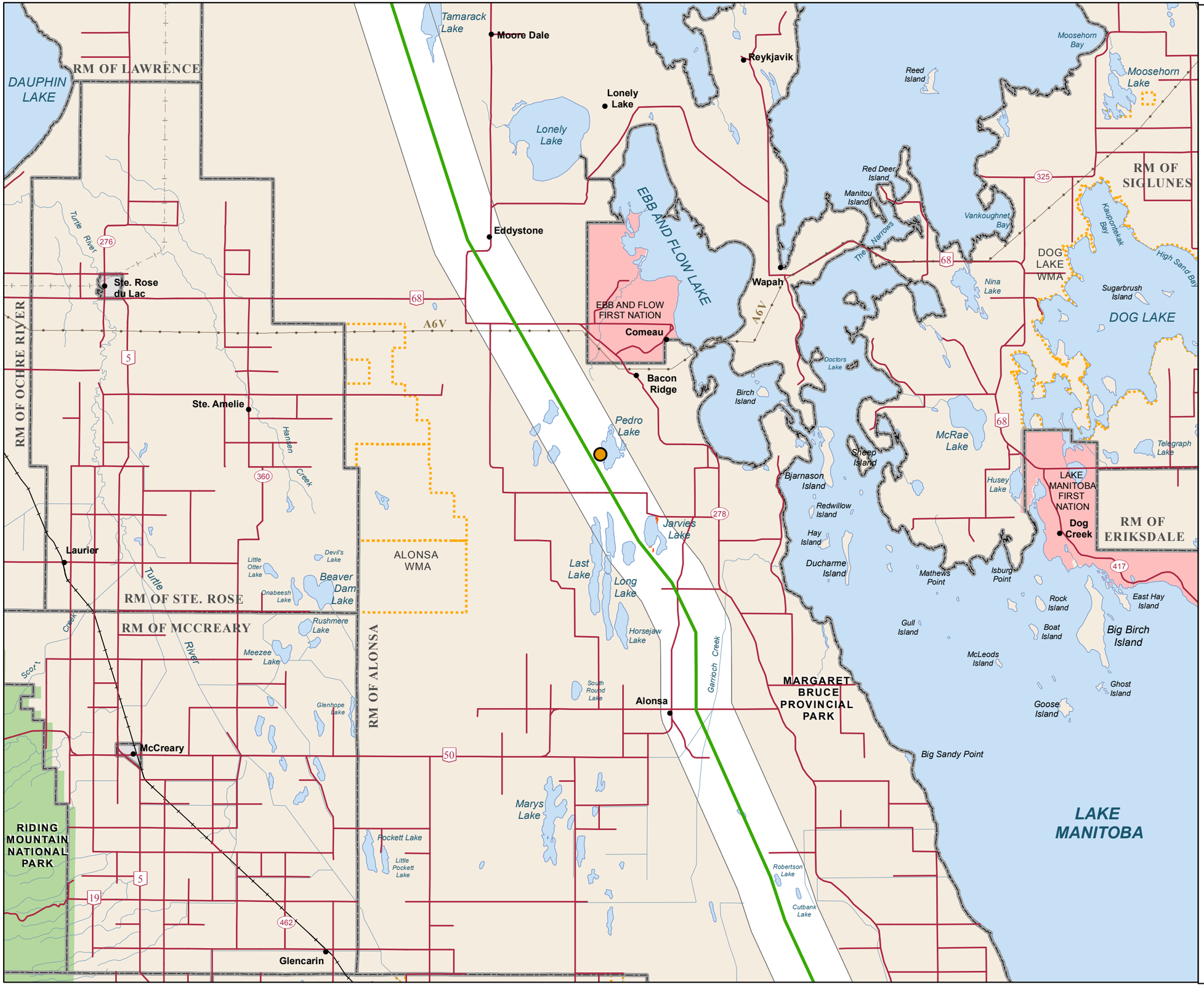
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-13



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

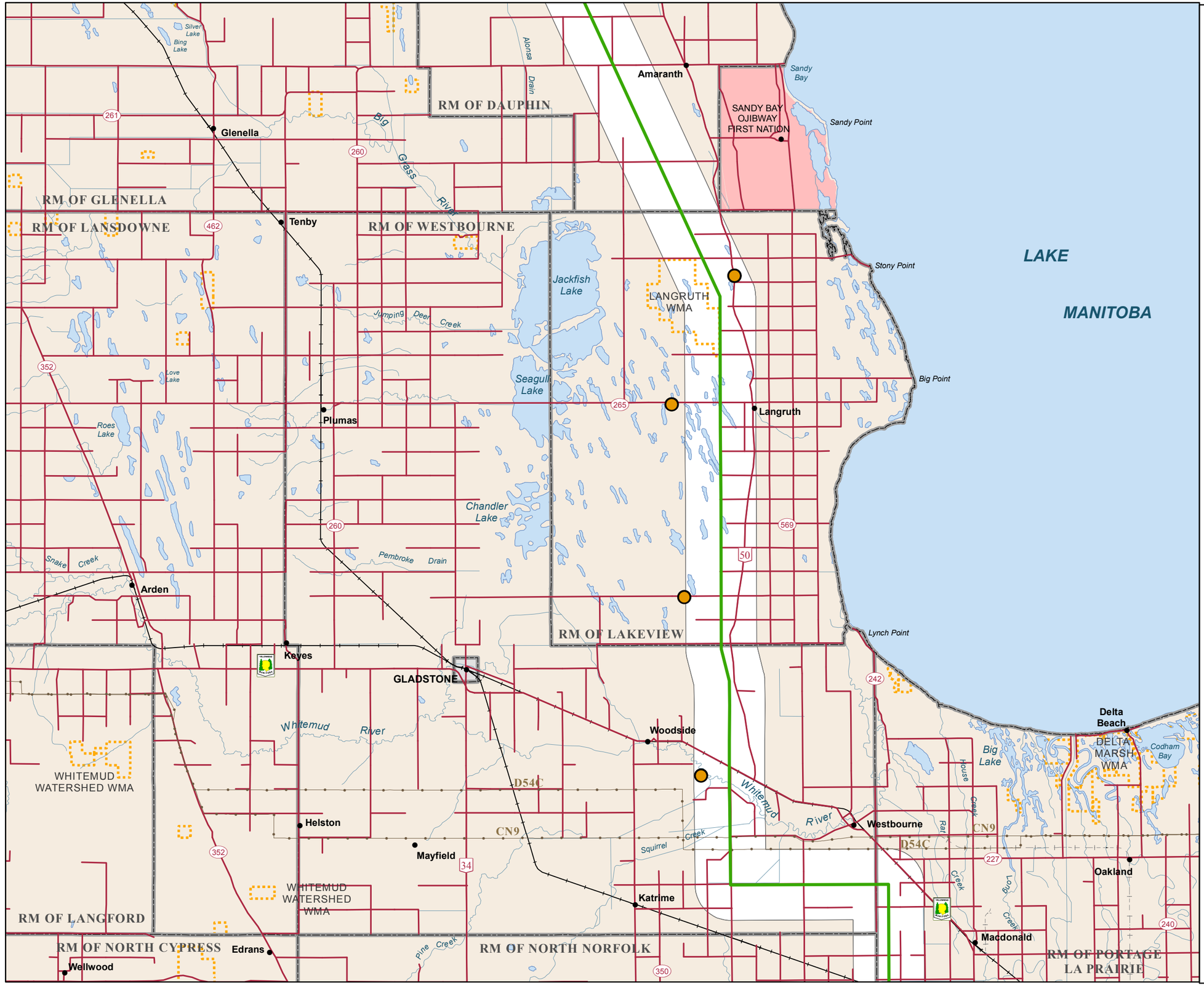
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-14



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

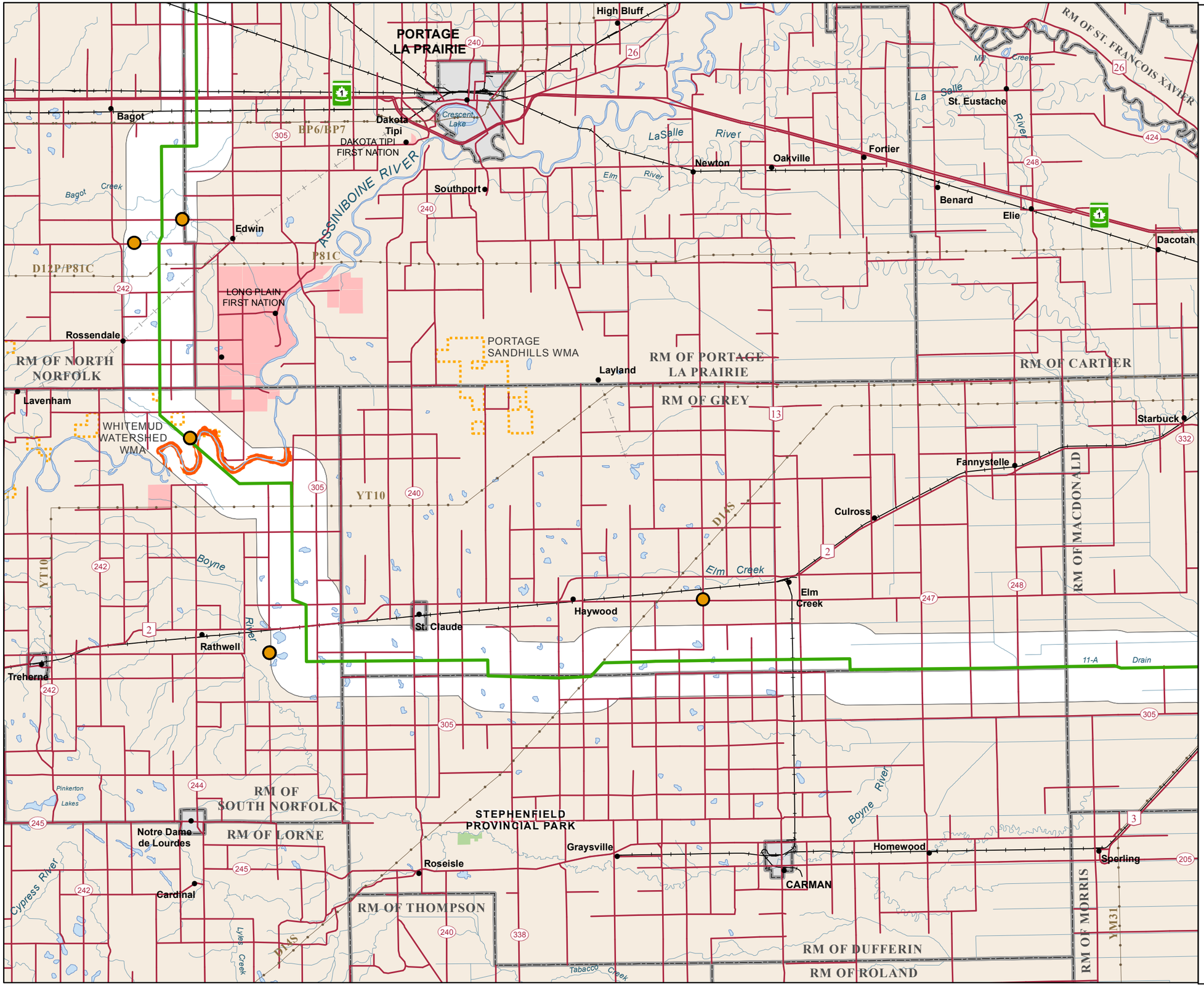
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-15



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

Landbase

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

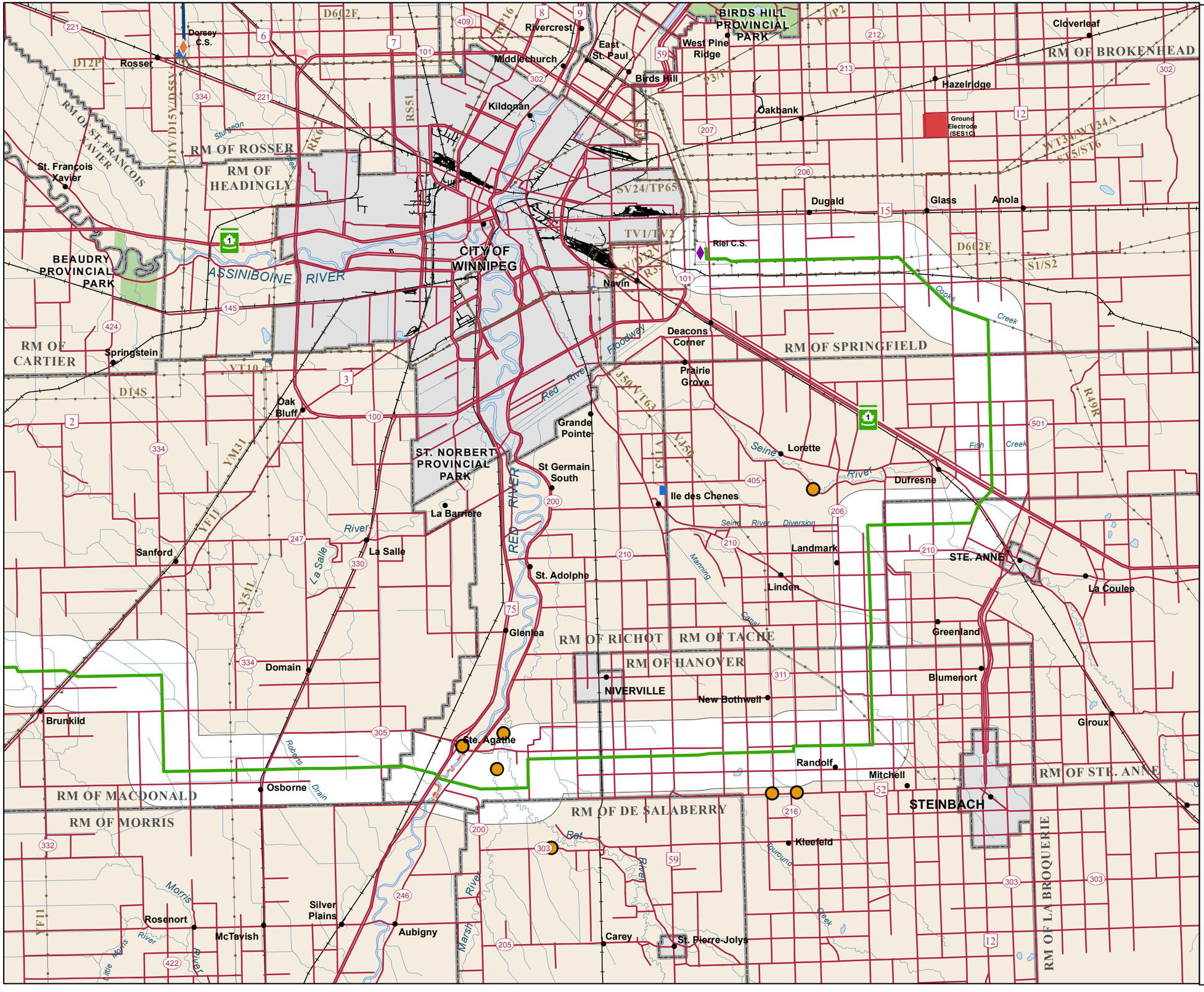
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Bald Eagle Survey Observations
- Bald Eagle Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Bald Eagle Habitat in the Local Study Area

Map 1500-17

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

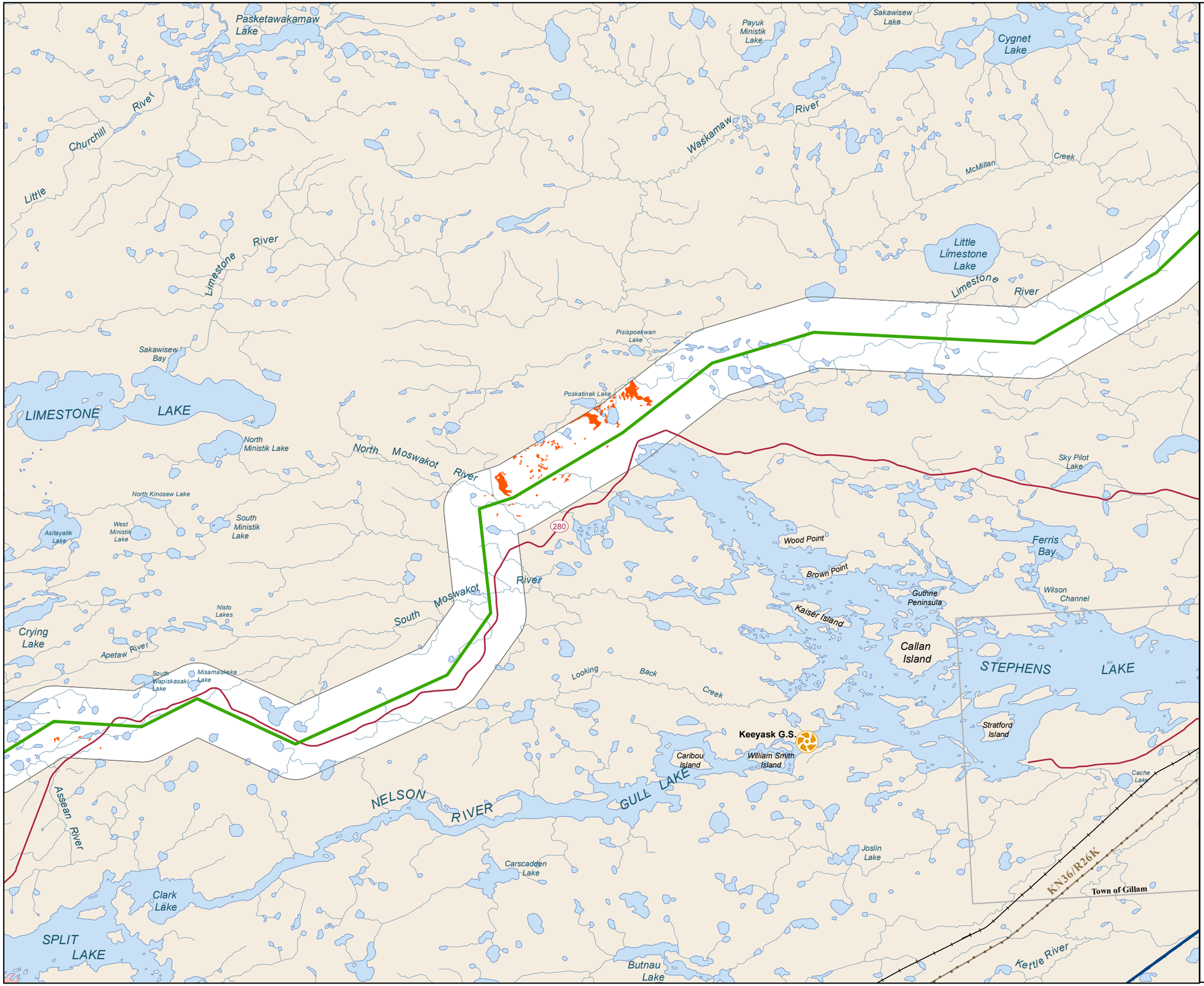
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-01



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-02

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

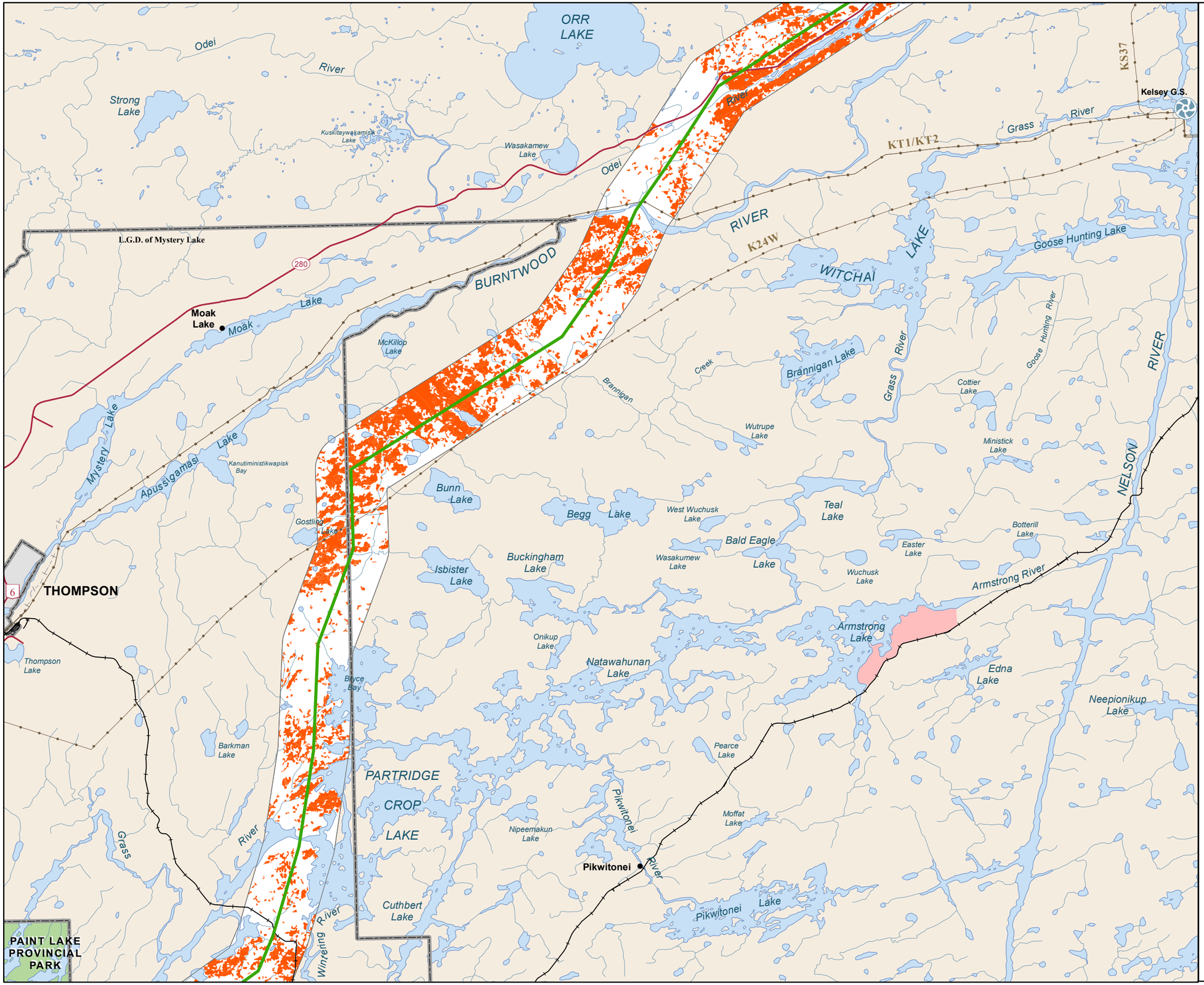
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-03



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-04

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-05

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-06

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-07

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-08

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

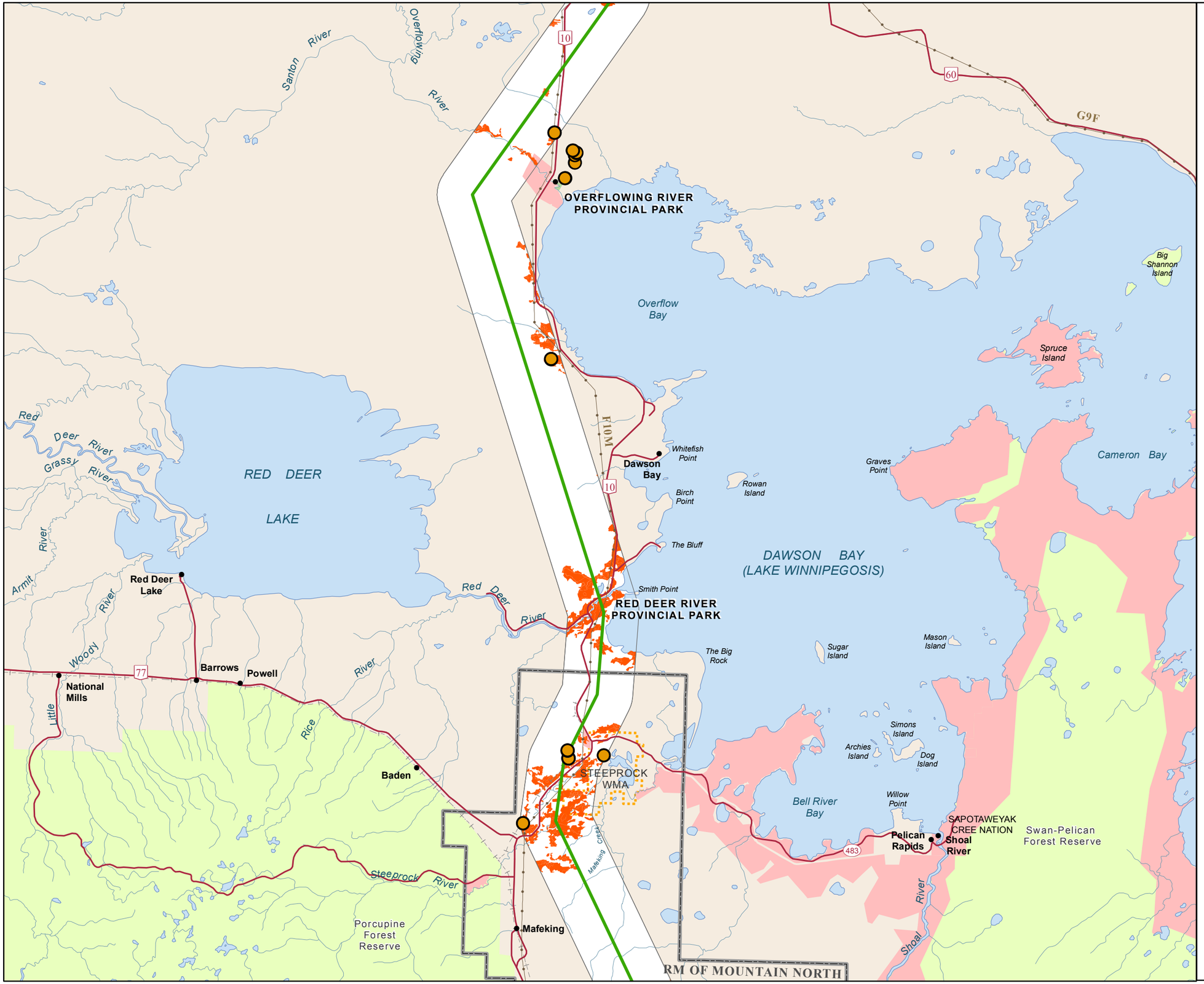
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-09



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-10

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

NORTH STEEPROCK LAKE PROVINCIAL PARK
BELL LAKE PROVINCIAL PARK
PRIMROSE PROVINCIAL PARK
SWAN RIVER PROVINCIAL PARK
KETTLE STONES PROVINCIAL PARK
WUSKWI SIPIHK FIRST NATION
Porcupine Forest Reserve
Swan-Pelican Forest Reserve
RM OF MOUNTAIN NORTH
RM OF MINITONAS
RM OF SWAN RIVER
RM OF MOUNTAIN SOUTH
Bellsite
Indian Birch
Birch River
Lenswood
Bowsman
SWAN RIVER
MINITONAS
Renwer
Briggs Spur
SWAN LAKE
PELICAN LAKE
North Steeprock Lake
South Steeprock Lake
Bell Lake
Fishtown Creek
Indian River
Plum Lake
Duck Lake
Dunoya Island
Rush Lake
Broken Stove Lake
Hughes Lake
Spence Lake
Birch River
Pelican River
Woody River
Swan River
Roaring River
West Fork River
East Fork River
Sinclair River
Drake River
F10M
10
365
268
266
279
275
83
486
488
366

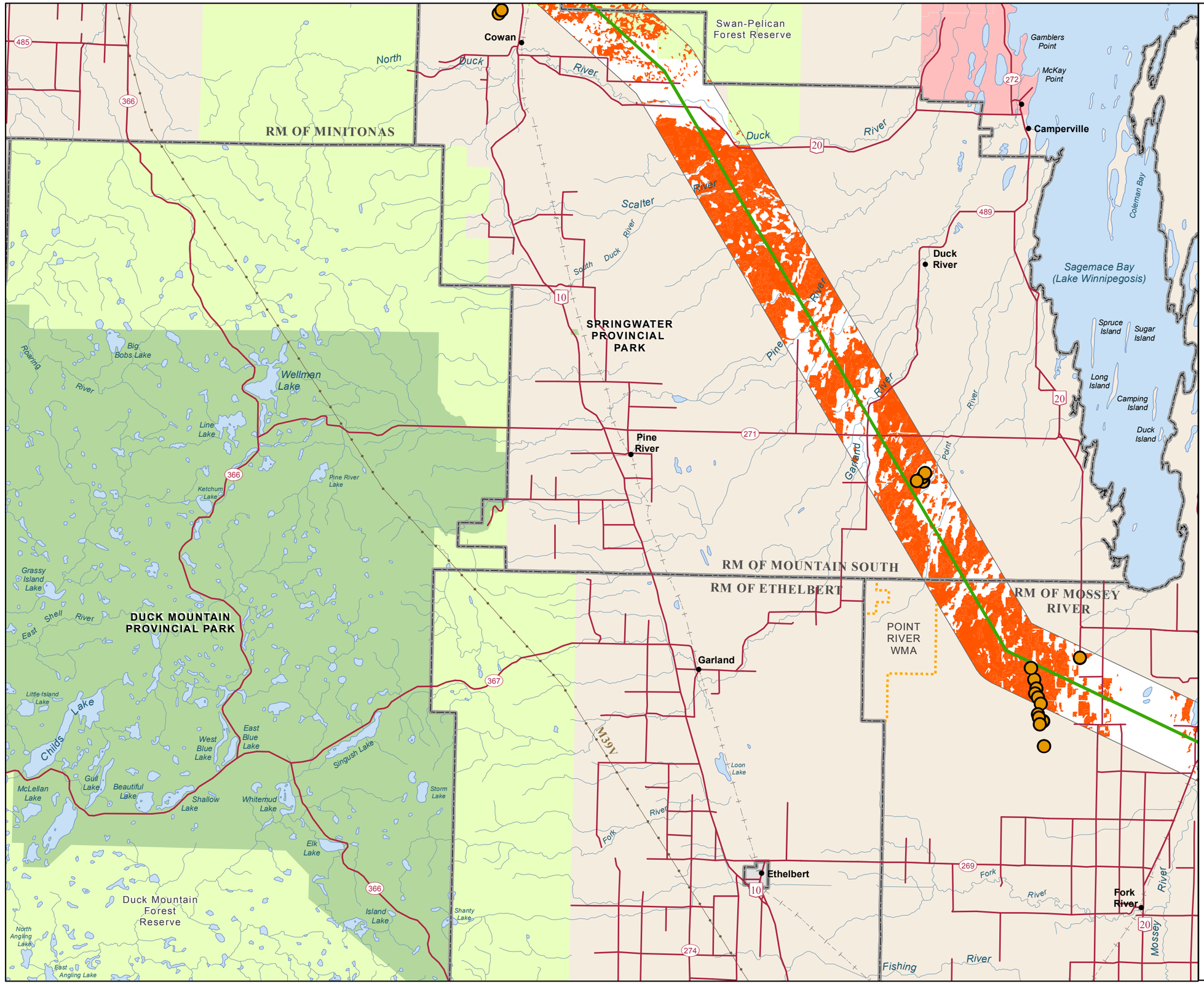
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-11



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

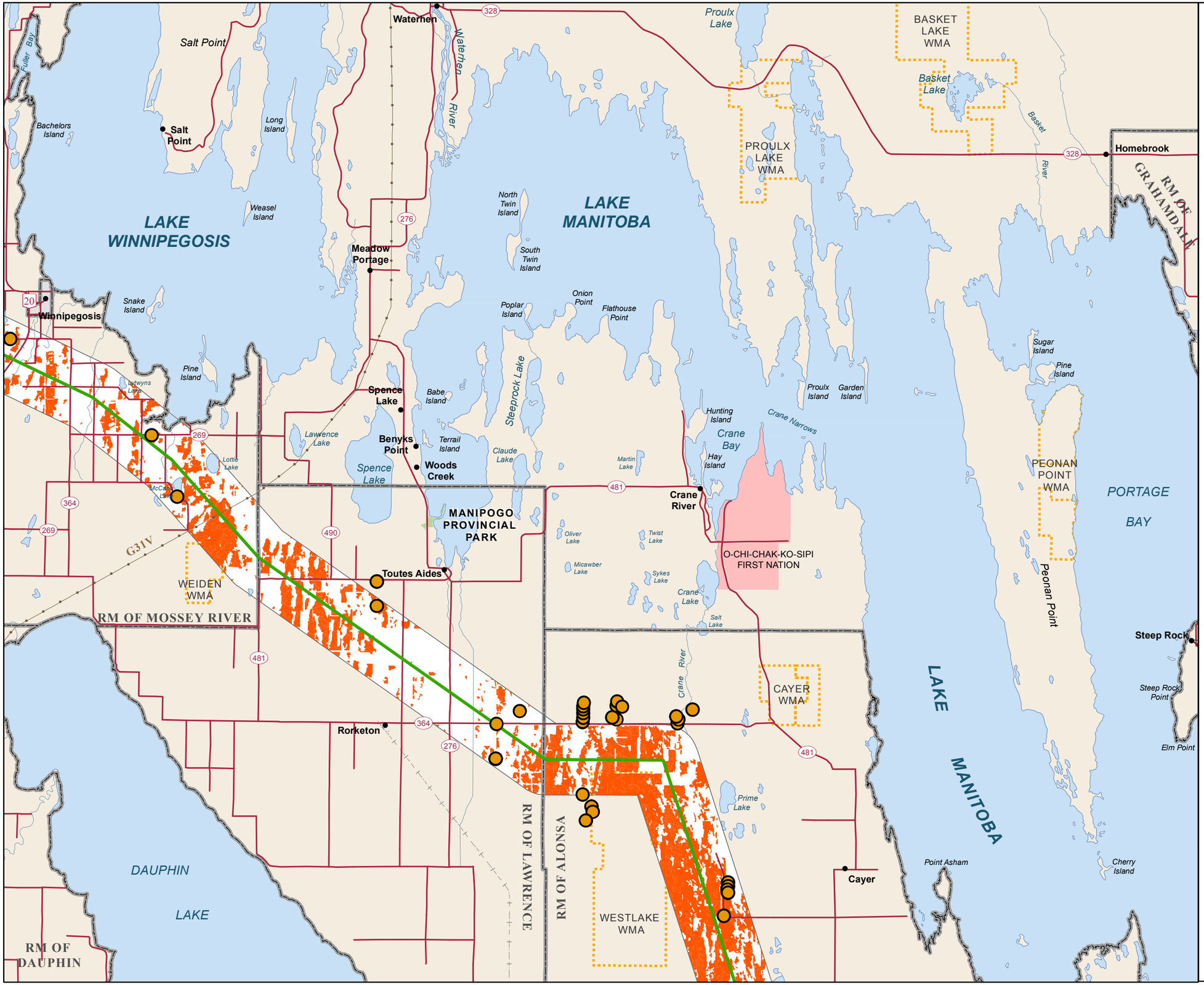
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-12



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

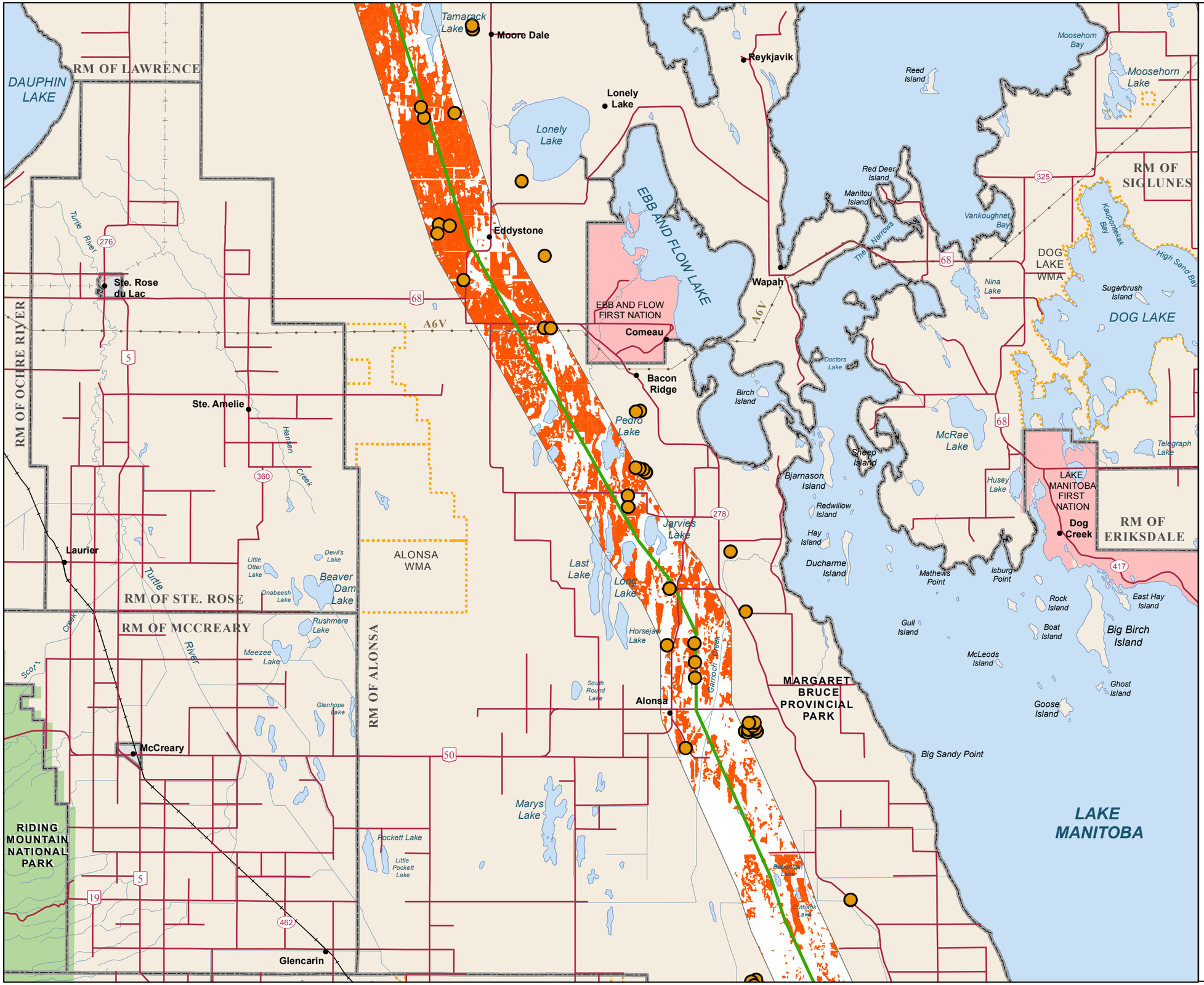
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-13



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

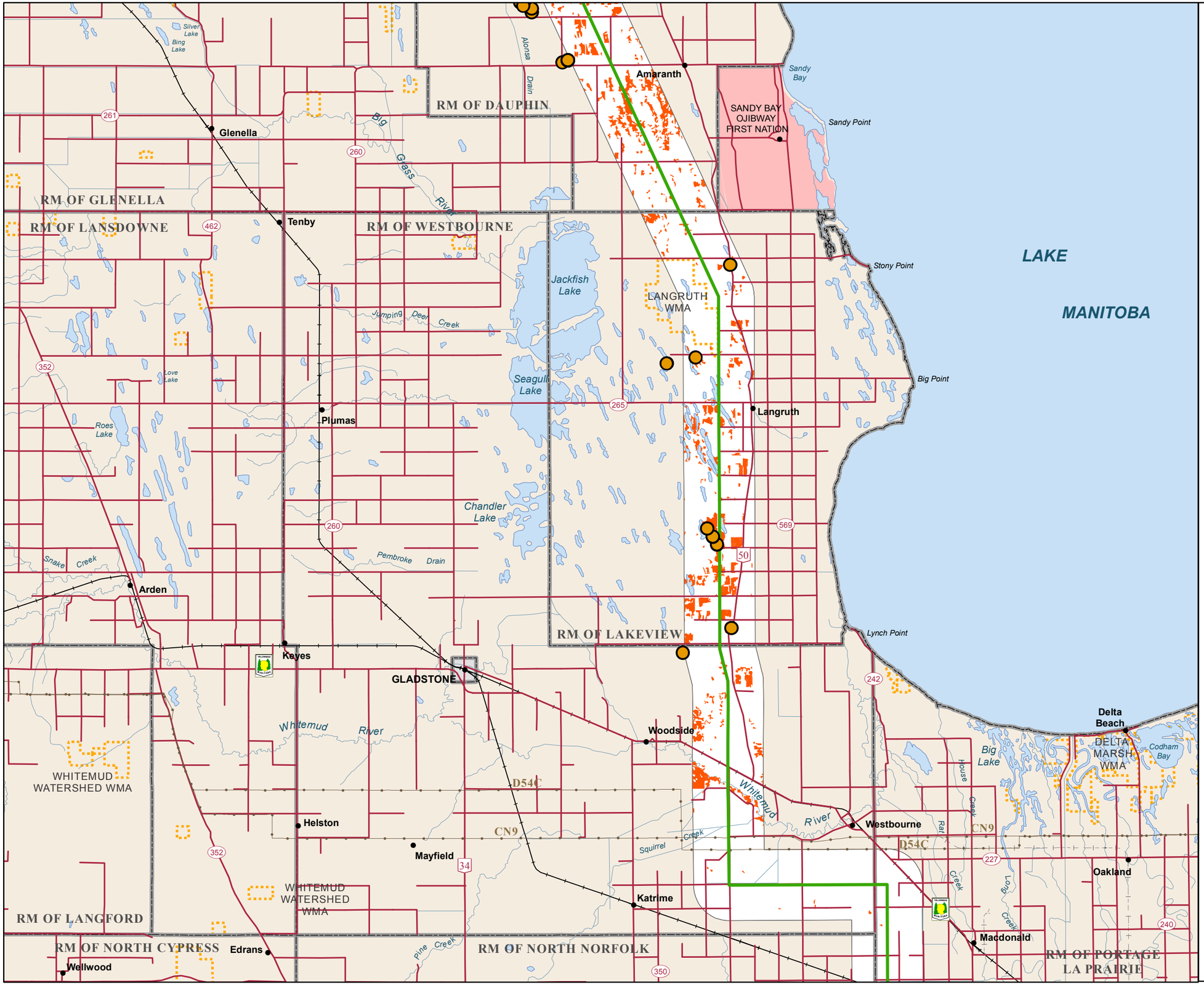
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-14



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

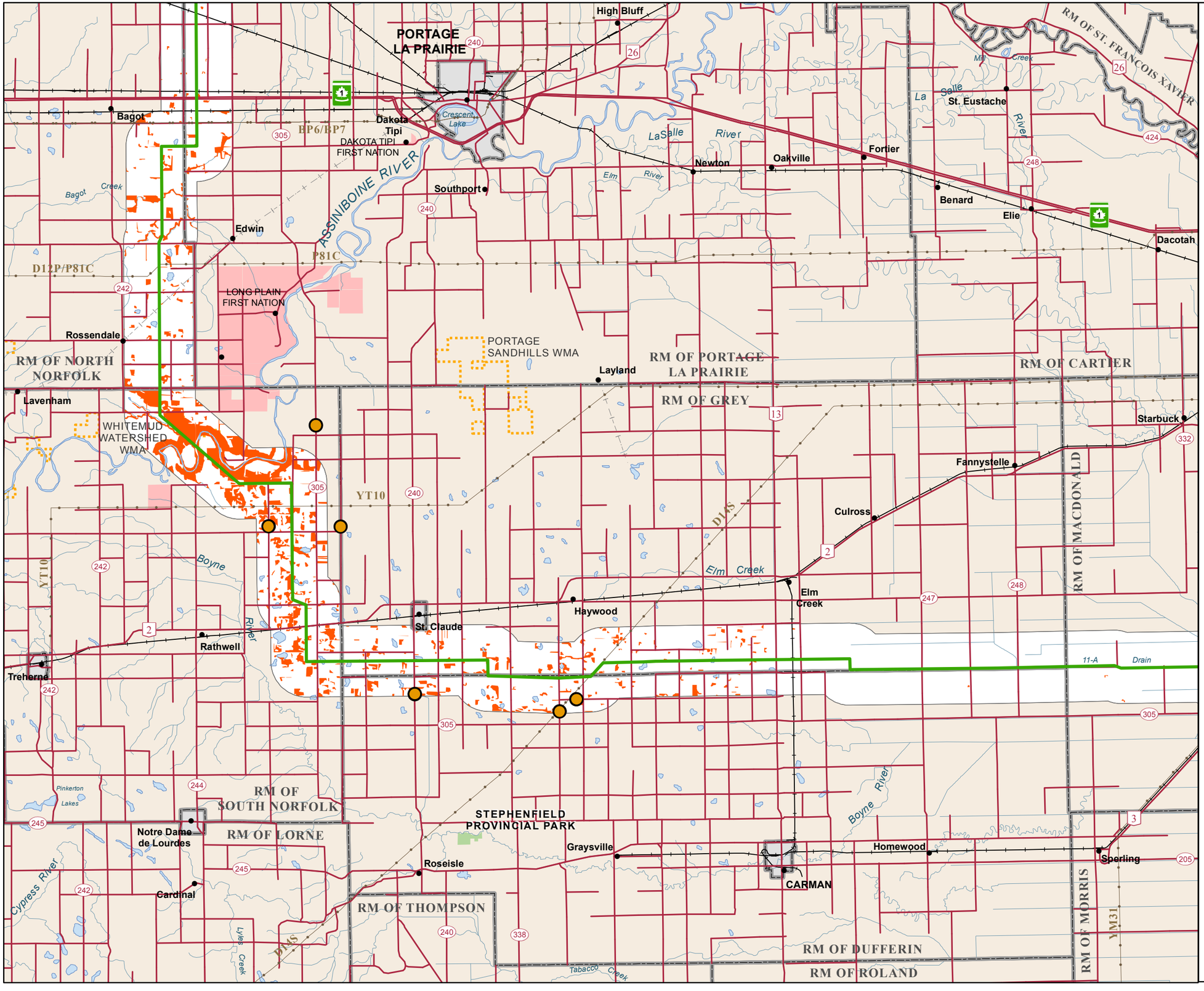
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-15



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

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

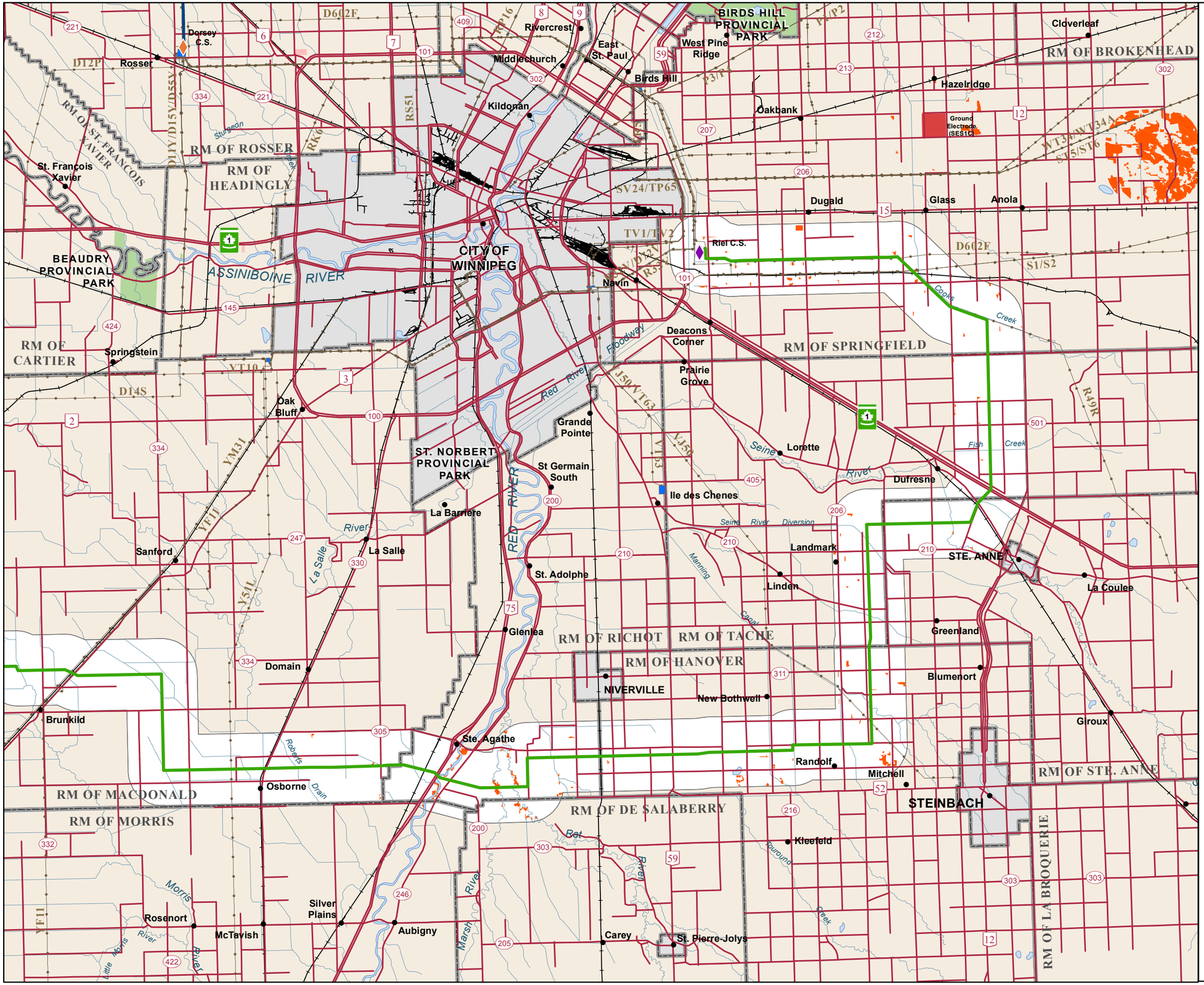
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Ruffed Grouse Survey Observations
- Ruffed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Ruffed Grouse Habitat in the Local Study Area

Map 1600-17

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

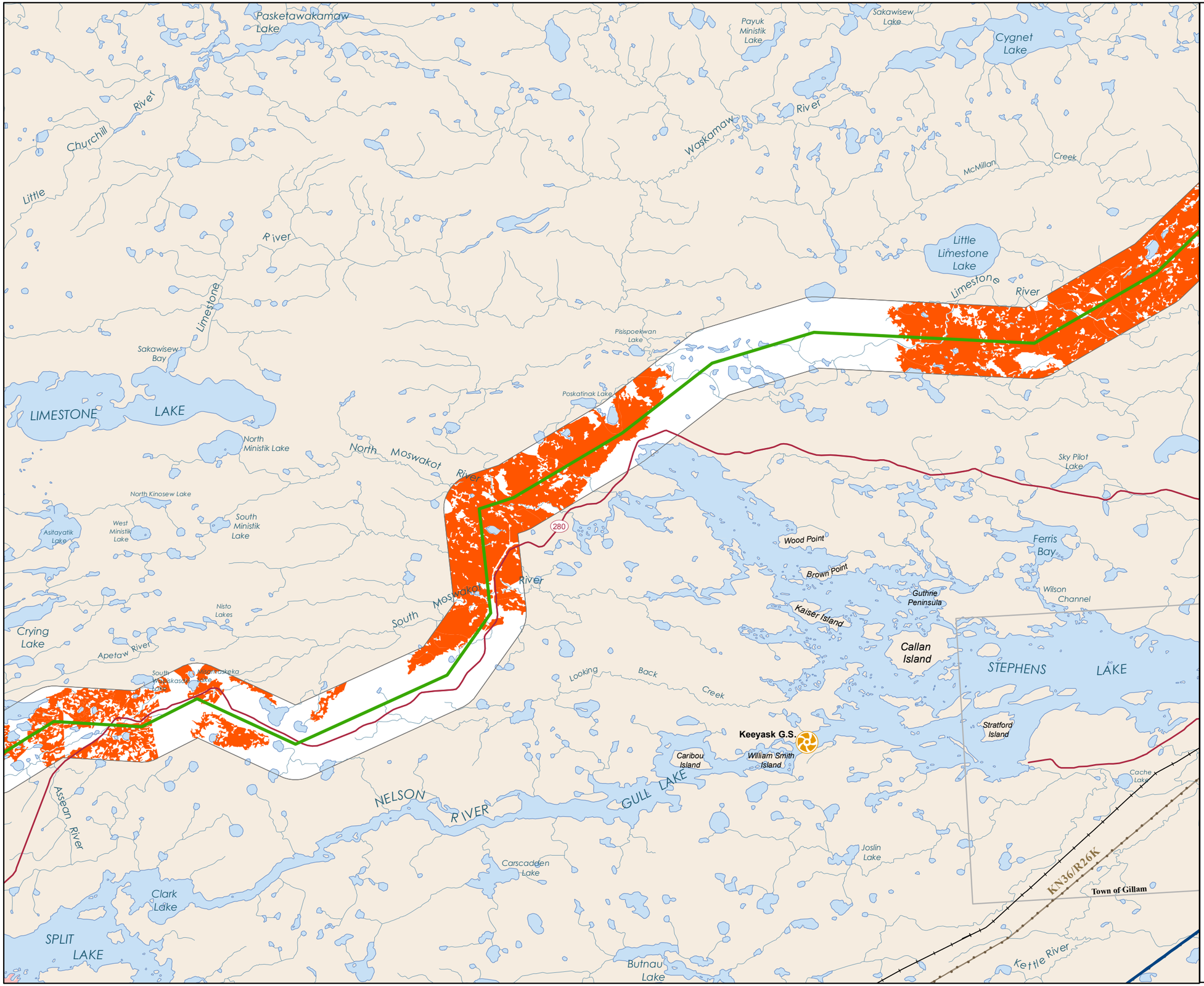
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-01



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-02

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-03

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

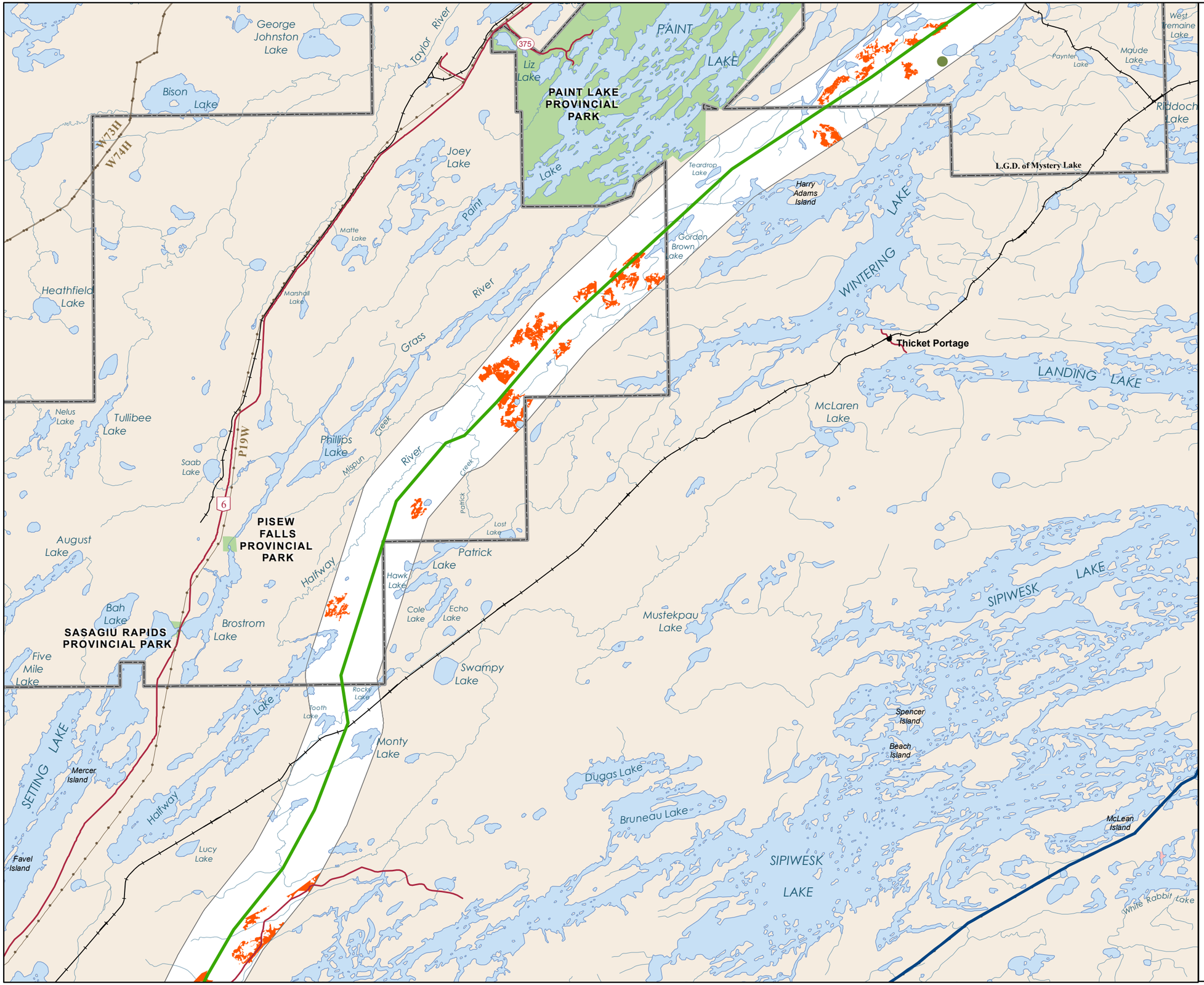
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-04



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

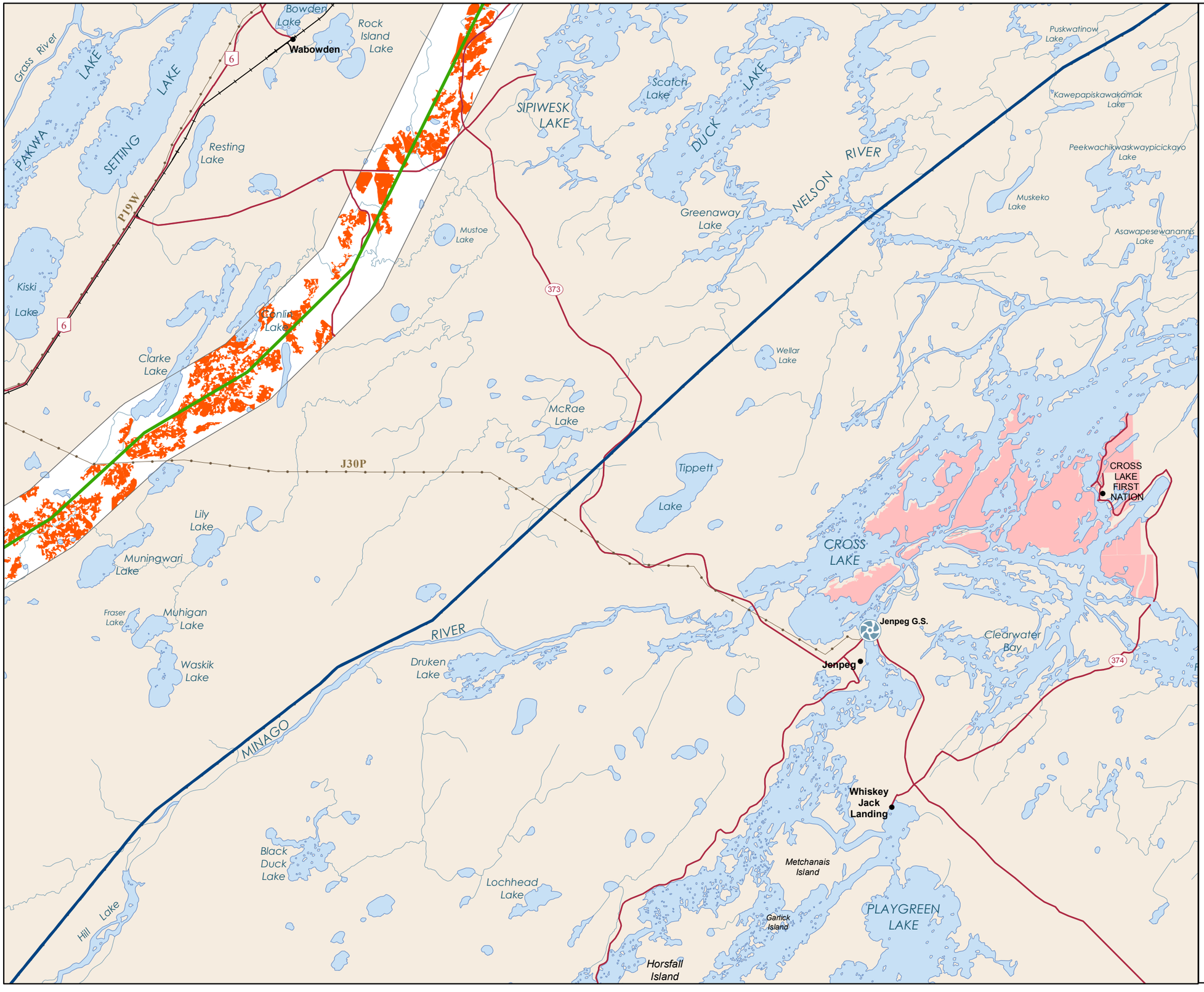
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-05



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

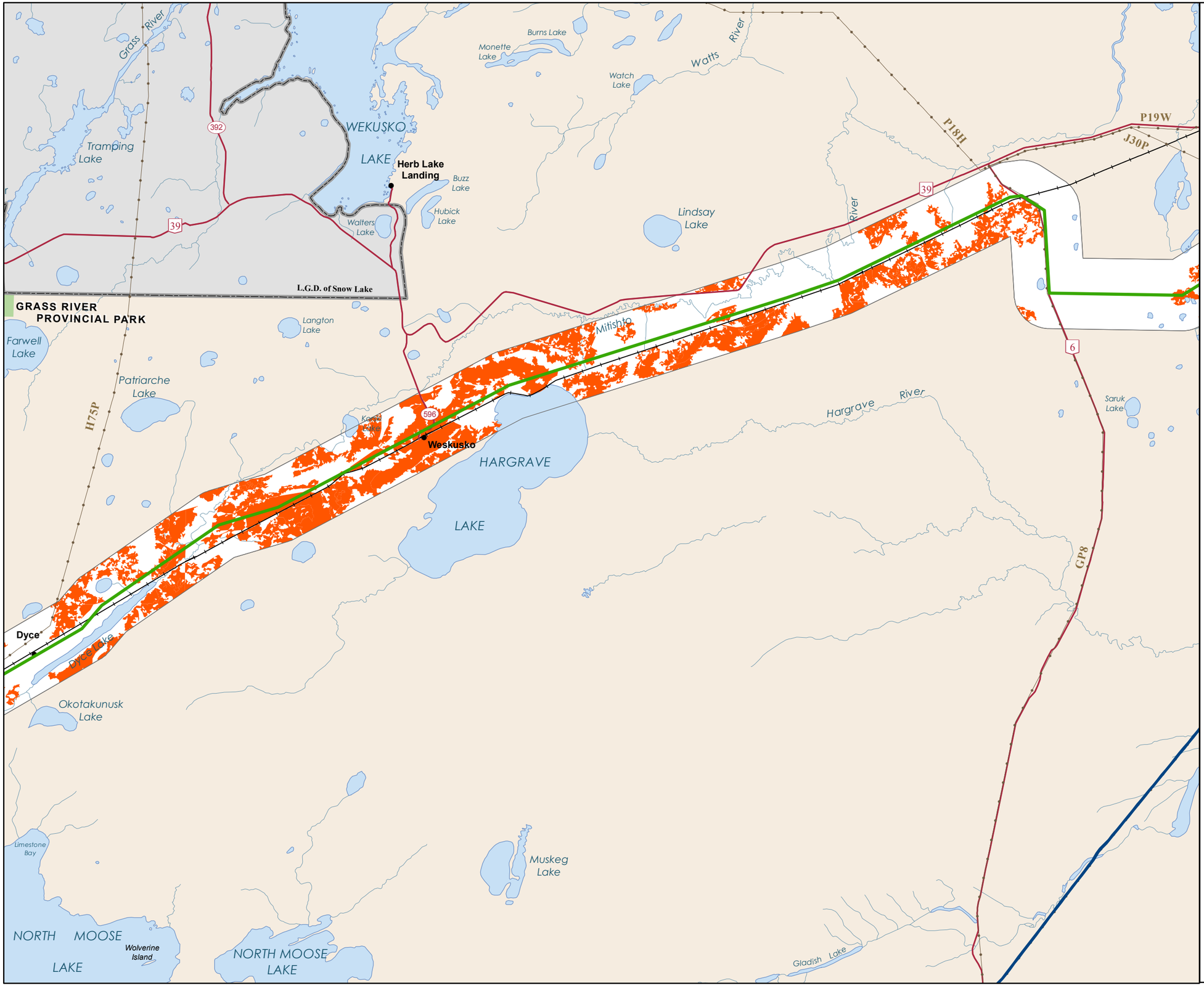
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-06



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-07

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

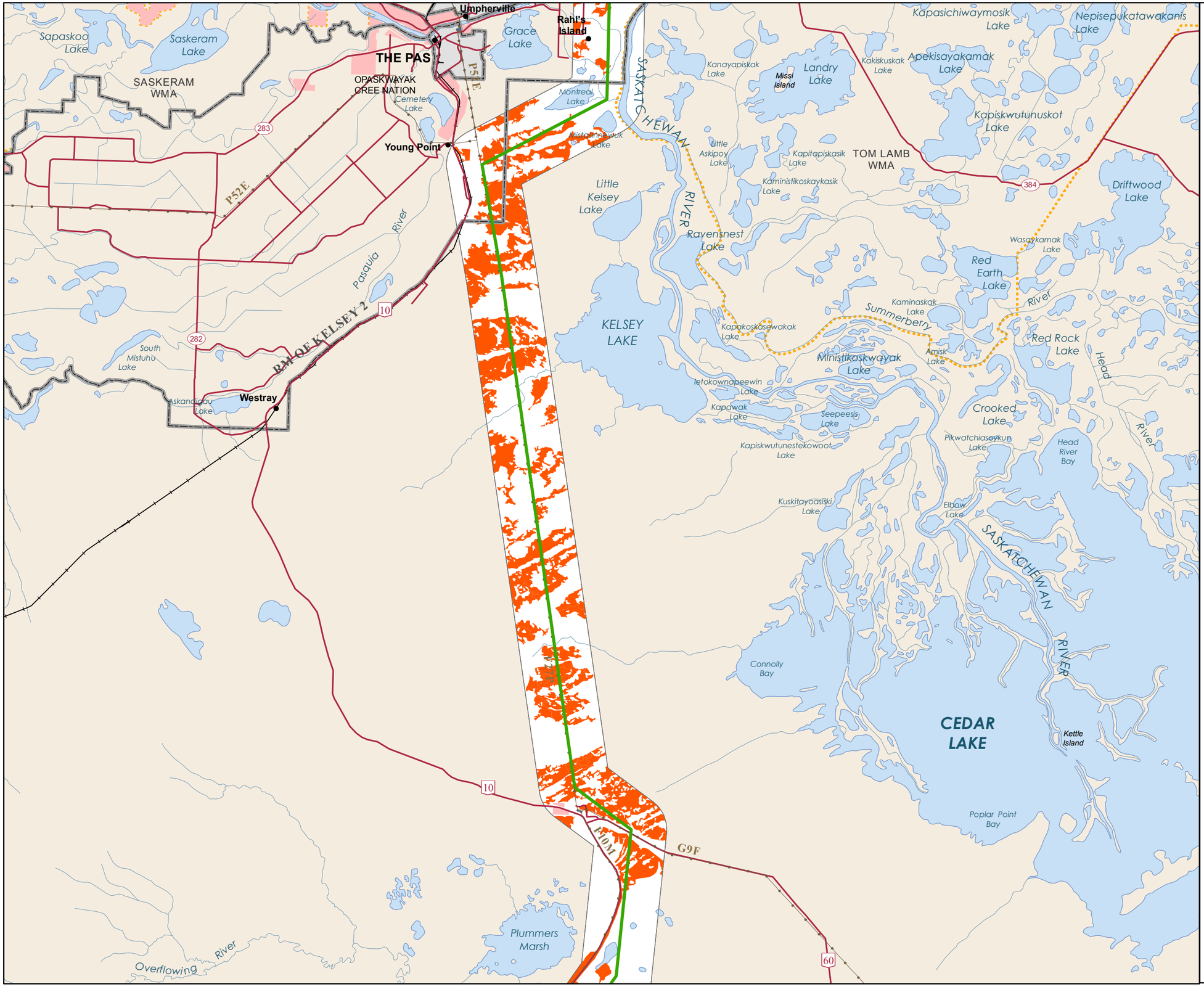
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-08



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

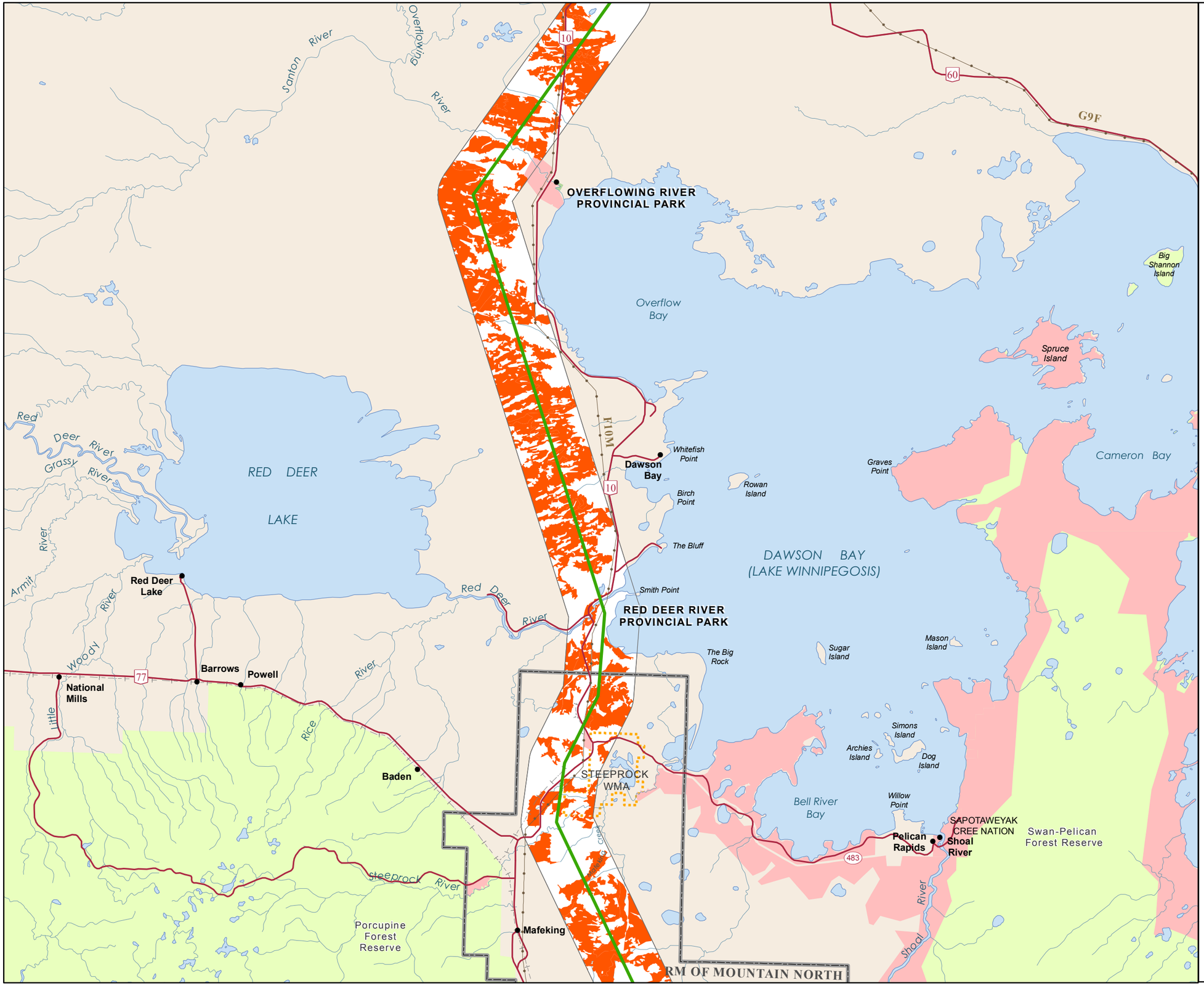
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-09



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

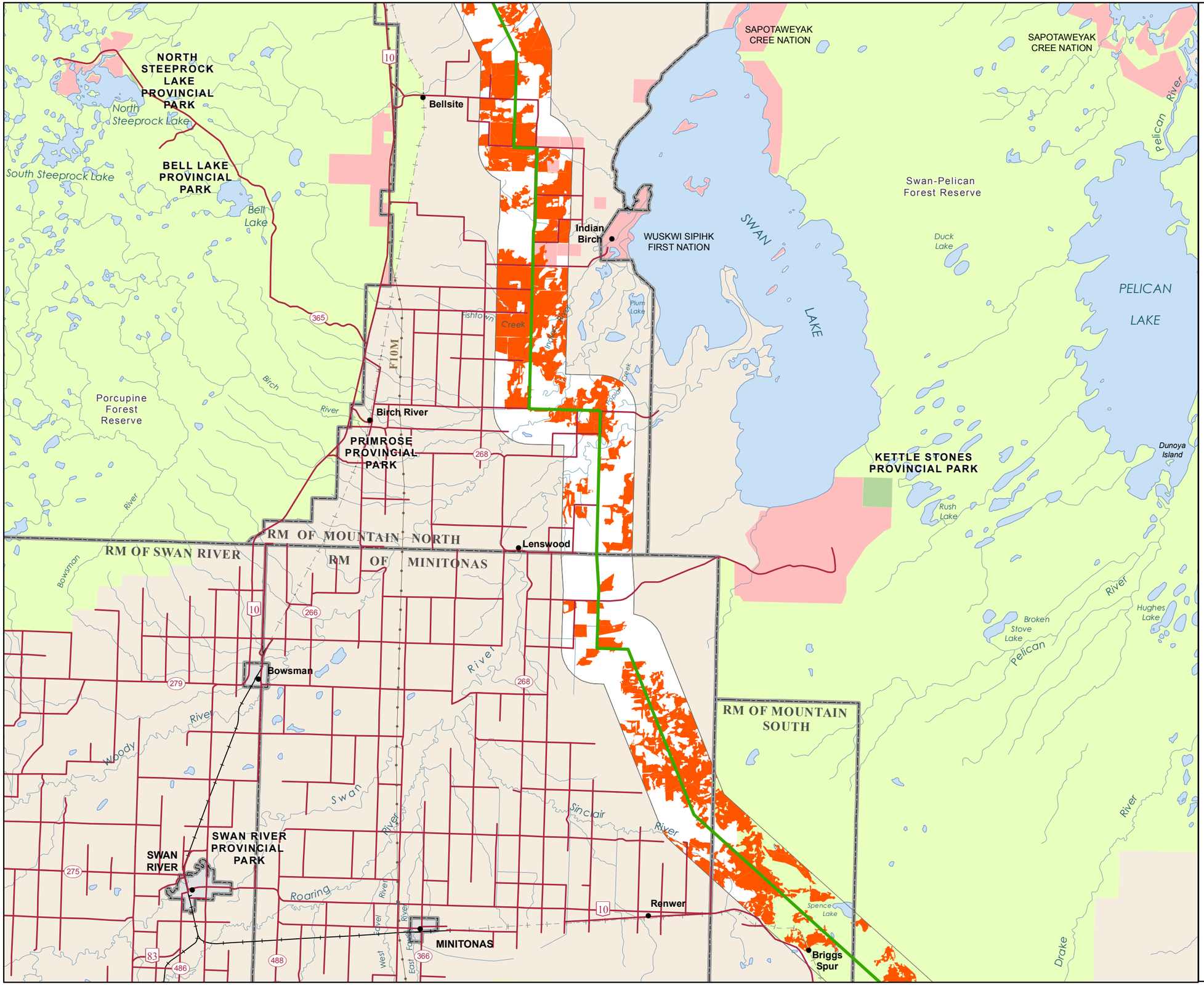
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-10



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-11

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

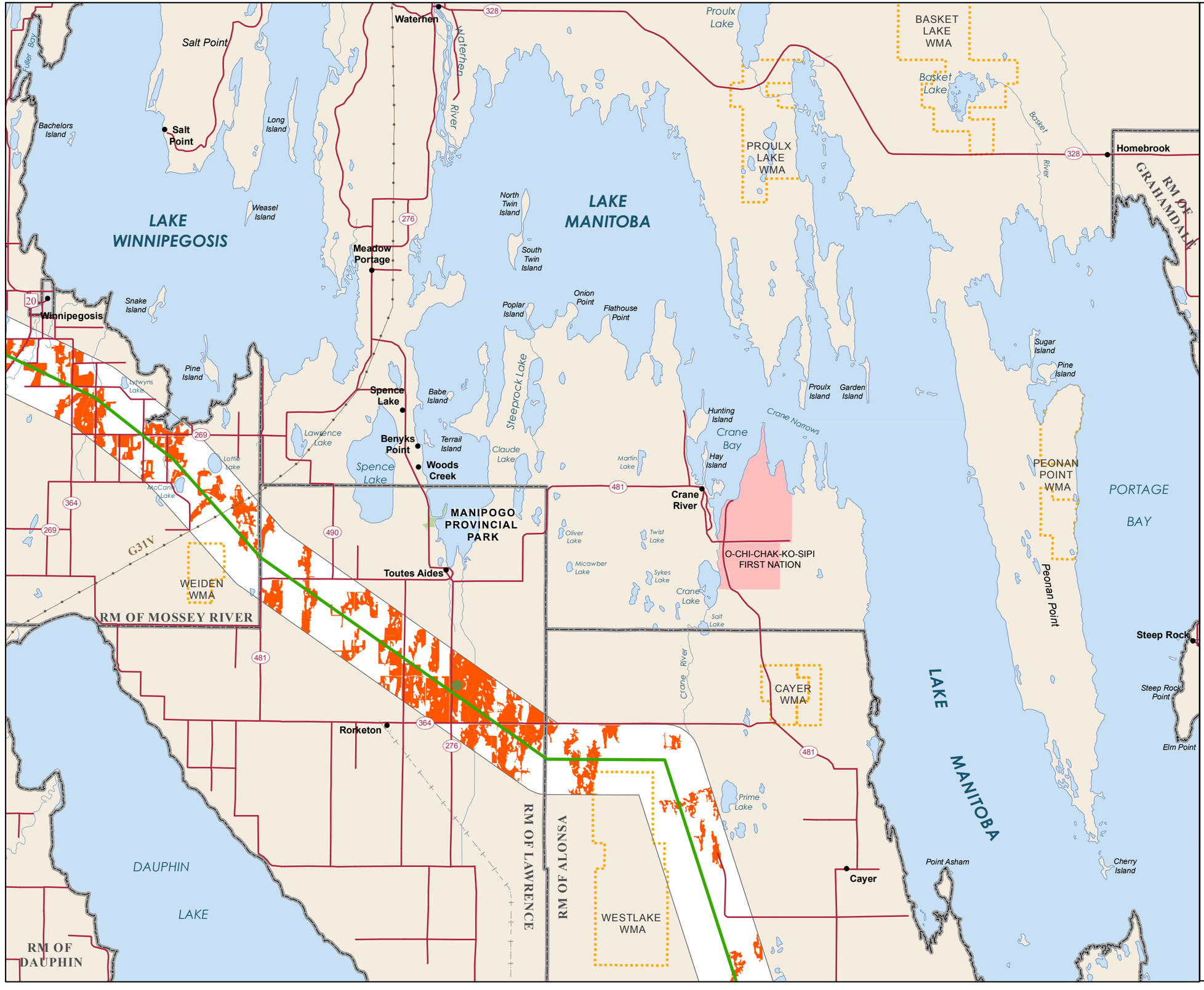
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-12



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-13

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

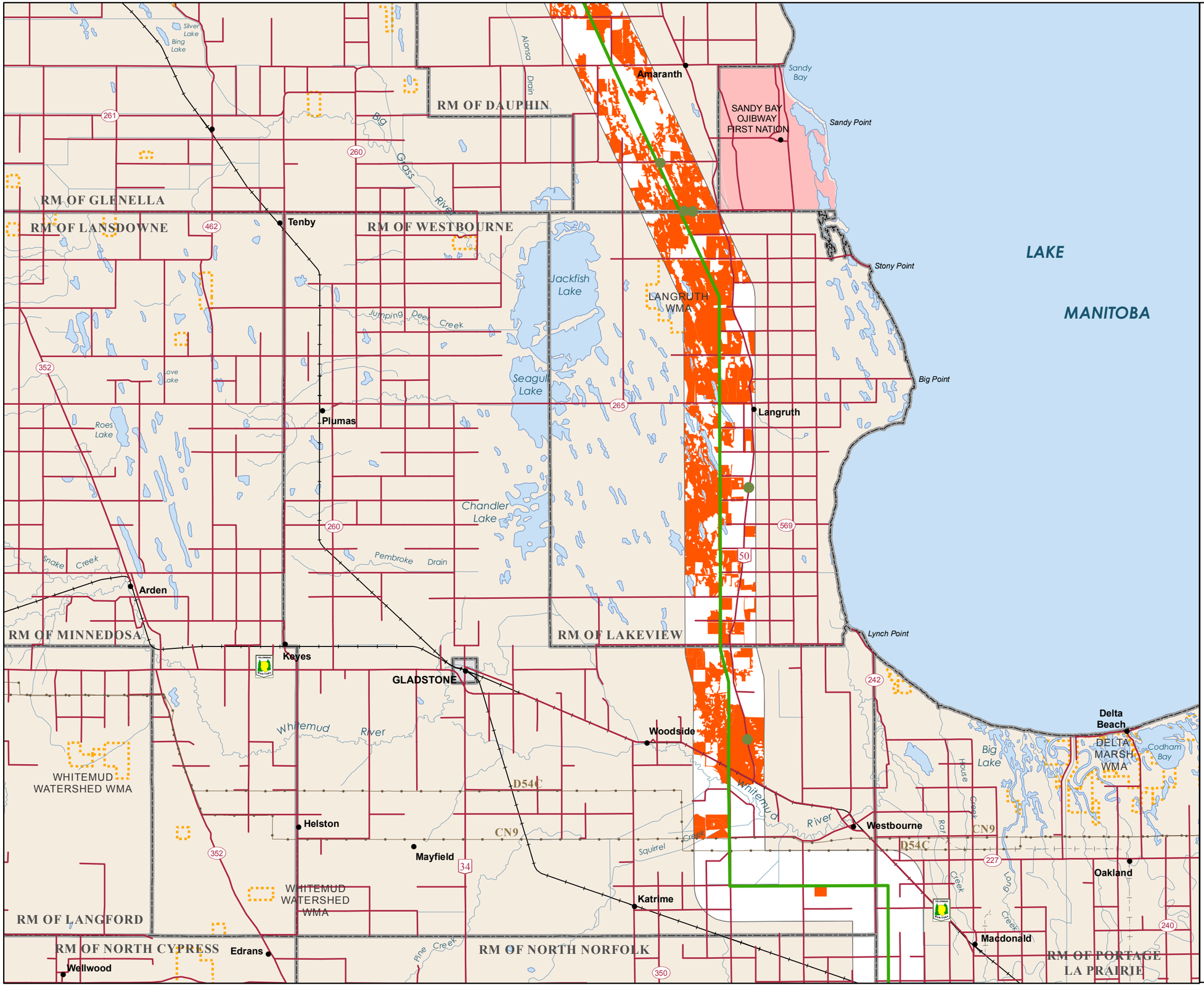
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-14



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-15

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

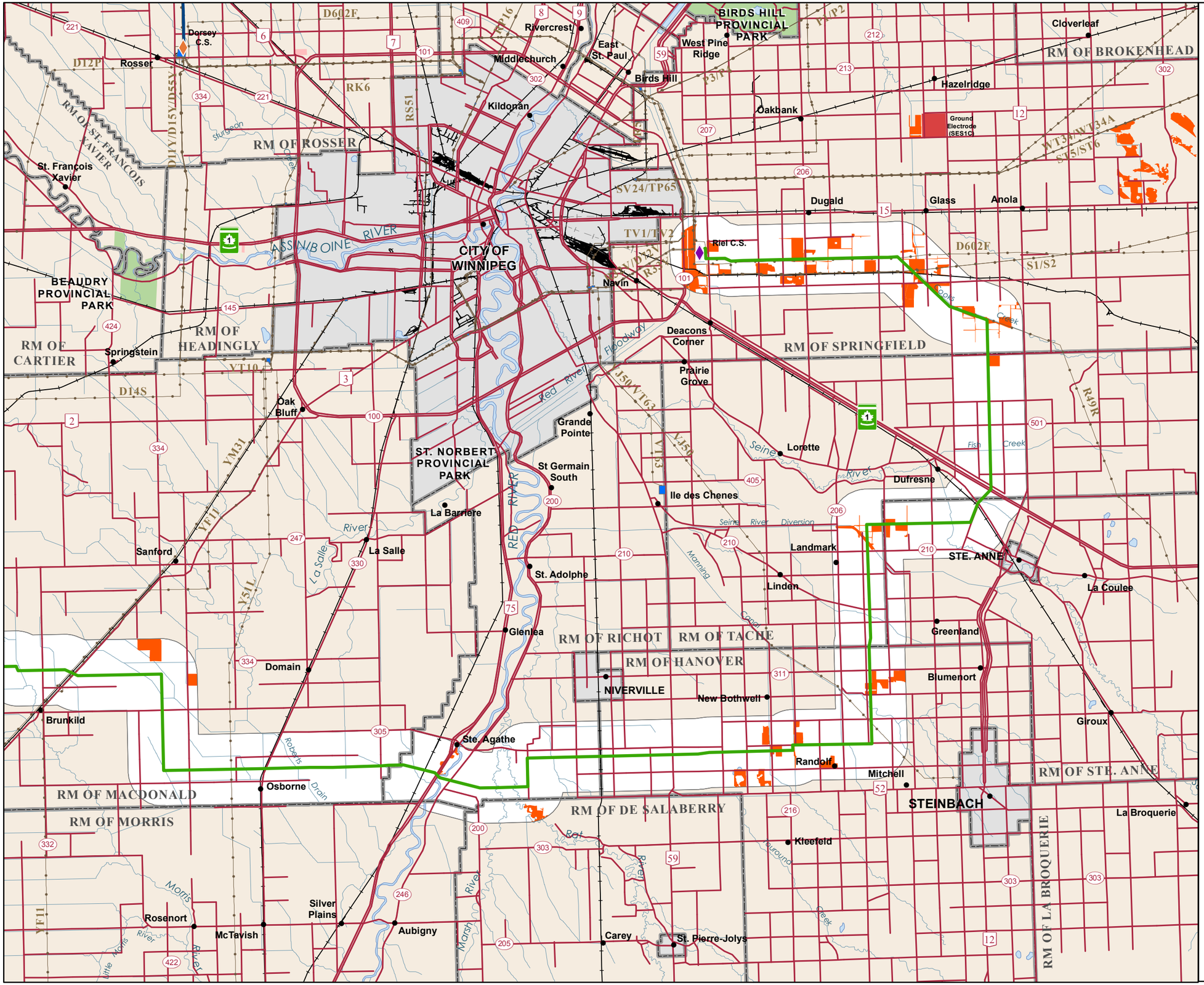
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Sharp-tailed Grouse Observation
- Sharp-tailed Grouse Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Sharp-tailed Grouse Habitat in the Local Study Area

Map 1700-17

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Camp Site
- Ground Electrode Site
- Construction Power Site
- Local Study Area

Infrastructure

- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-01

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Converter Station
- Generating Station (Proposed)
- Generating Station
- Transmission Line
- Bipole I and II

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-02

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

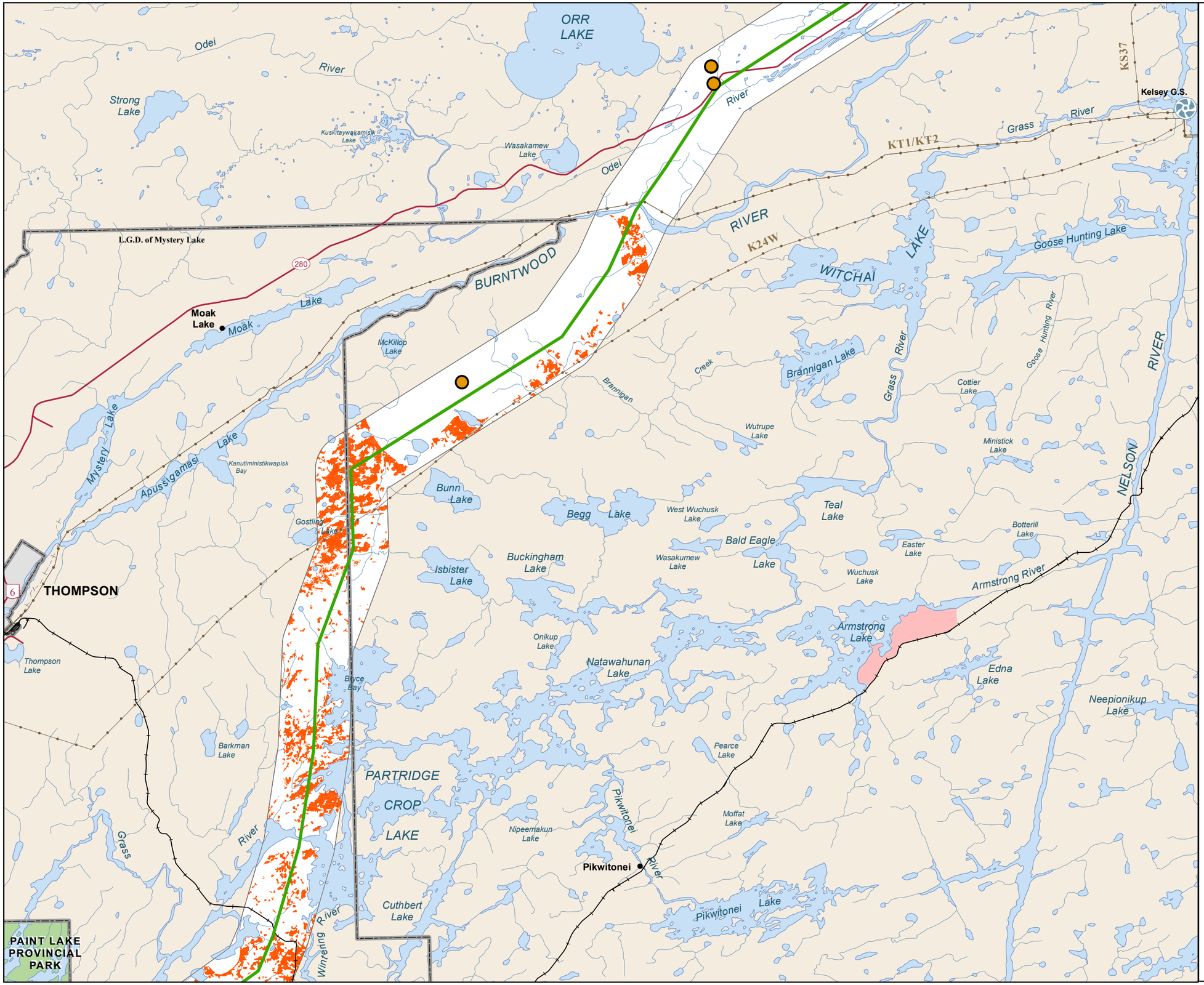
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-03



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-04

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

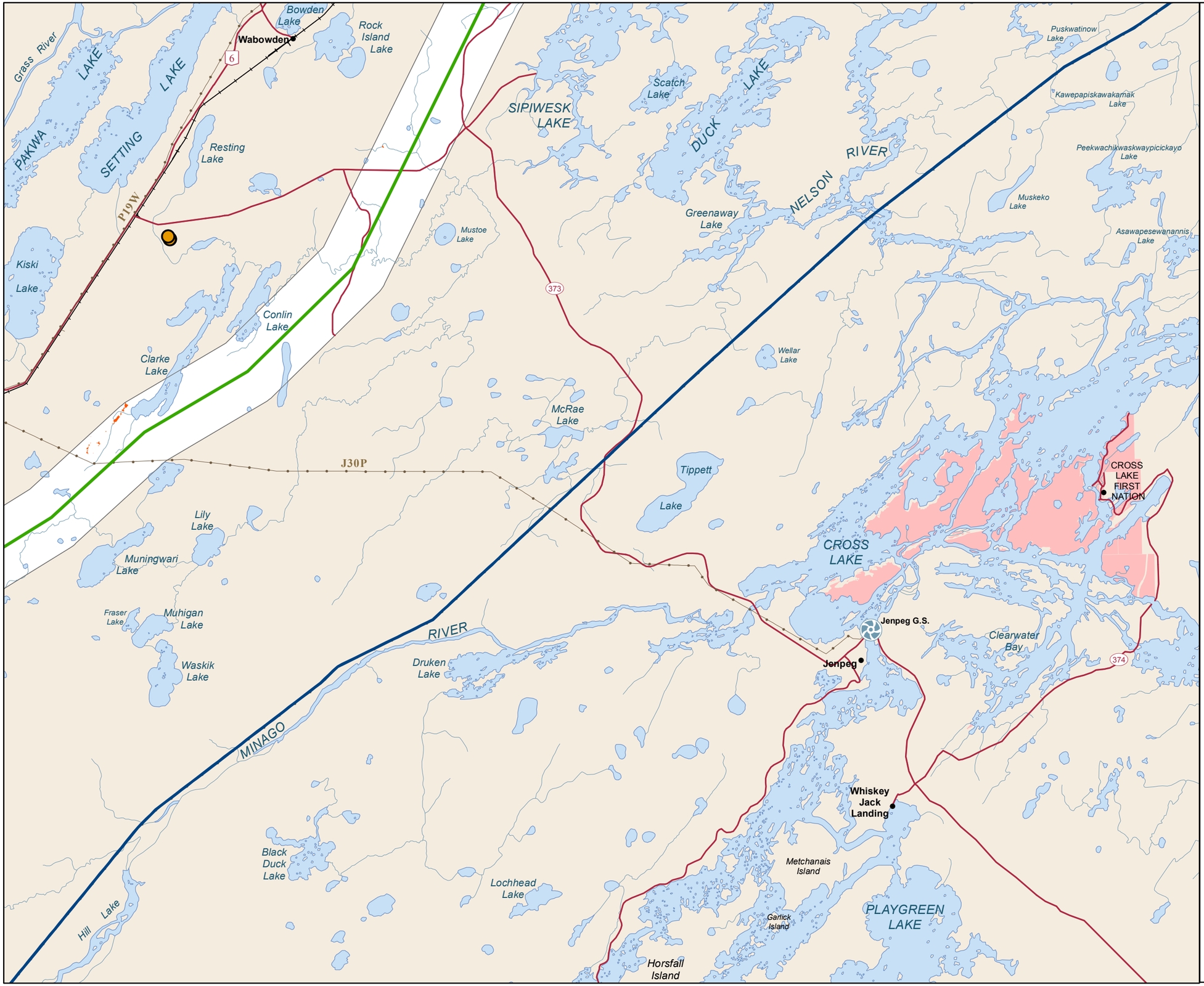
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-05



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

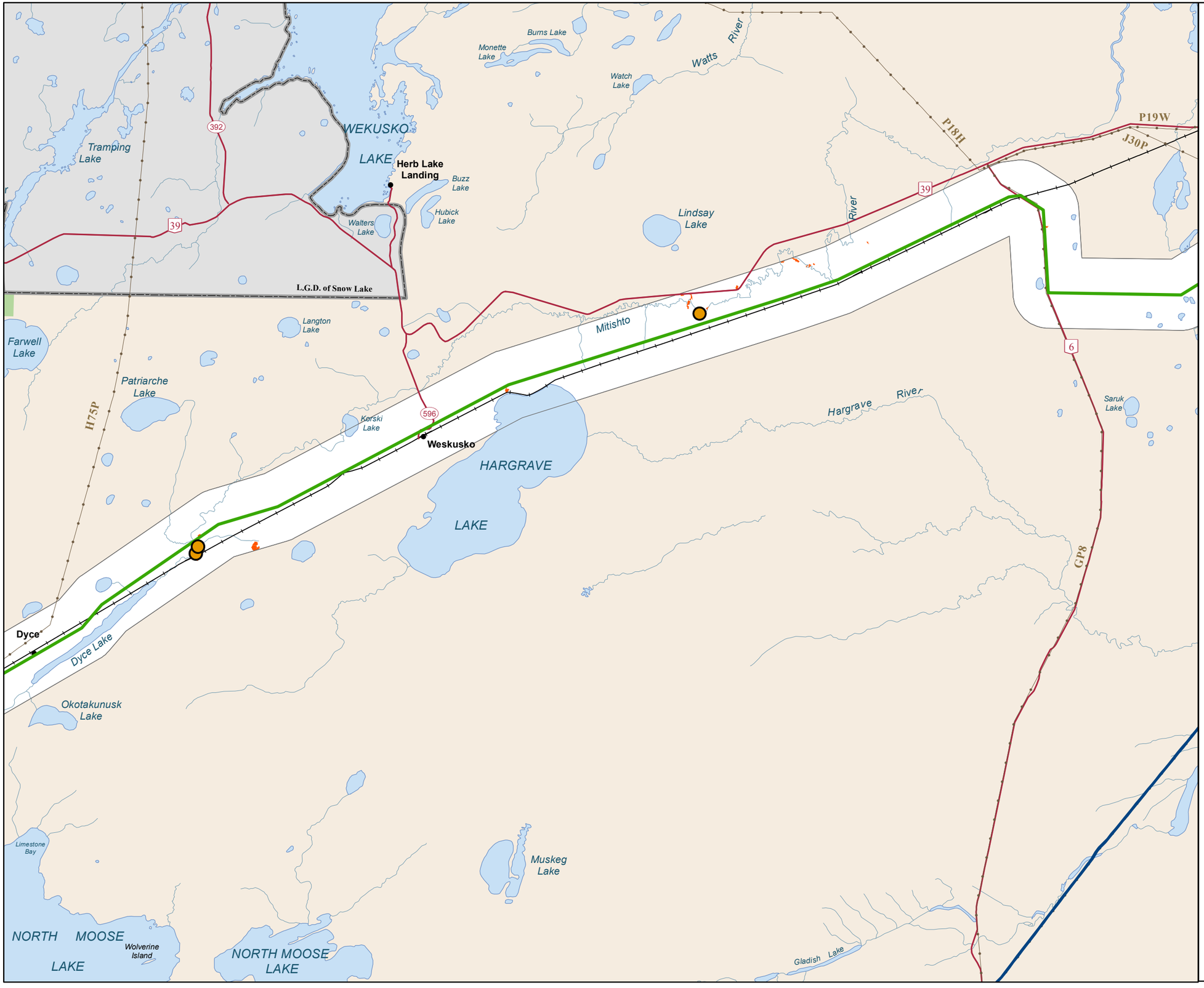
N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-06



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-07

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-08

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-09

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

OVERFLOWING RIVER PROVINCIAL PARK
RED DEER RIVER PROVINCIAL PARK
STEEPROCK WMA
RM OF MOUNTAIN NORTH
RED DEER LAKE
DAWSON BAY (LAKE WINNIPEGOSIS)
Overflow Bay
Bell River Bay
Cameron Bay
Dawson Bay
Red Deer Lake
Barrows
Powell
National Mills
Baden
Mafeking
Pelican Rapids
SAPOTAWEYAK CREE NATION
Shoal River
Swan-Pelican Forest Reserve
Porcupine Forest Reserve
Spruce Island
Big Shannon Island
Whitefish Point
Rowan Island
Birch Point
The Bluff
Smith Point
The Big Rock
Sugar Island
Mason Island
Simons Island
Archies Island
Dog Island
Willow Point
Graves Point
Santon River
Overflowing River
Red Deer River
Grassy River
Armit River
Woody River
Little River
Rice River
Steeprock River
Mafeking Creek
Shoal River
10
60
G9F
F10M
77
483

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-10

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

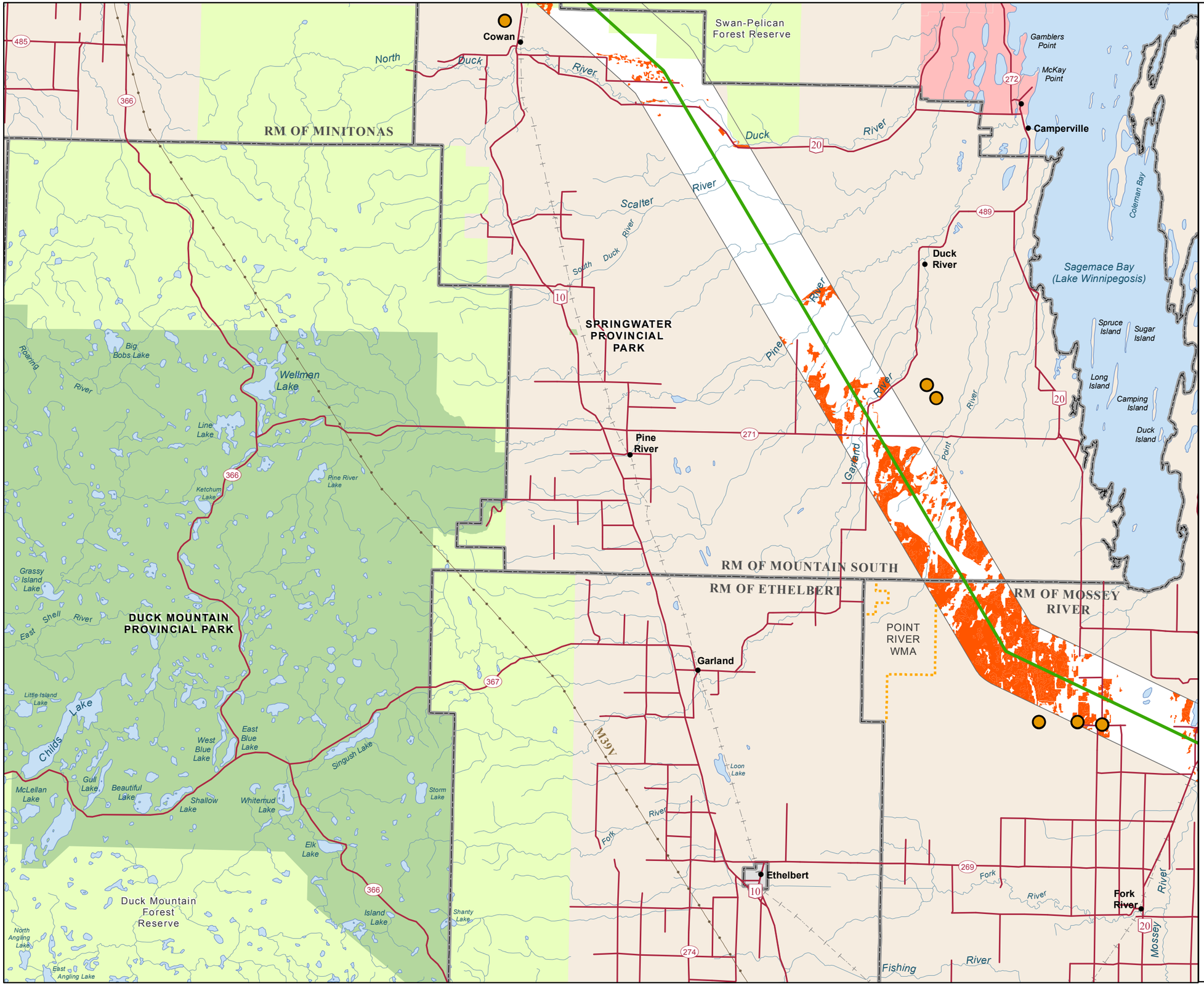
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-11



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

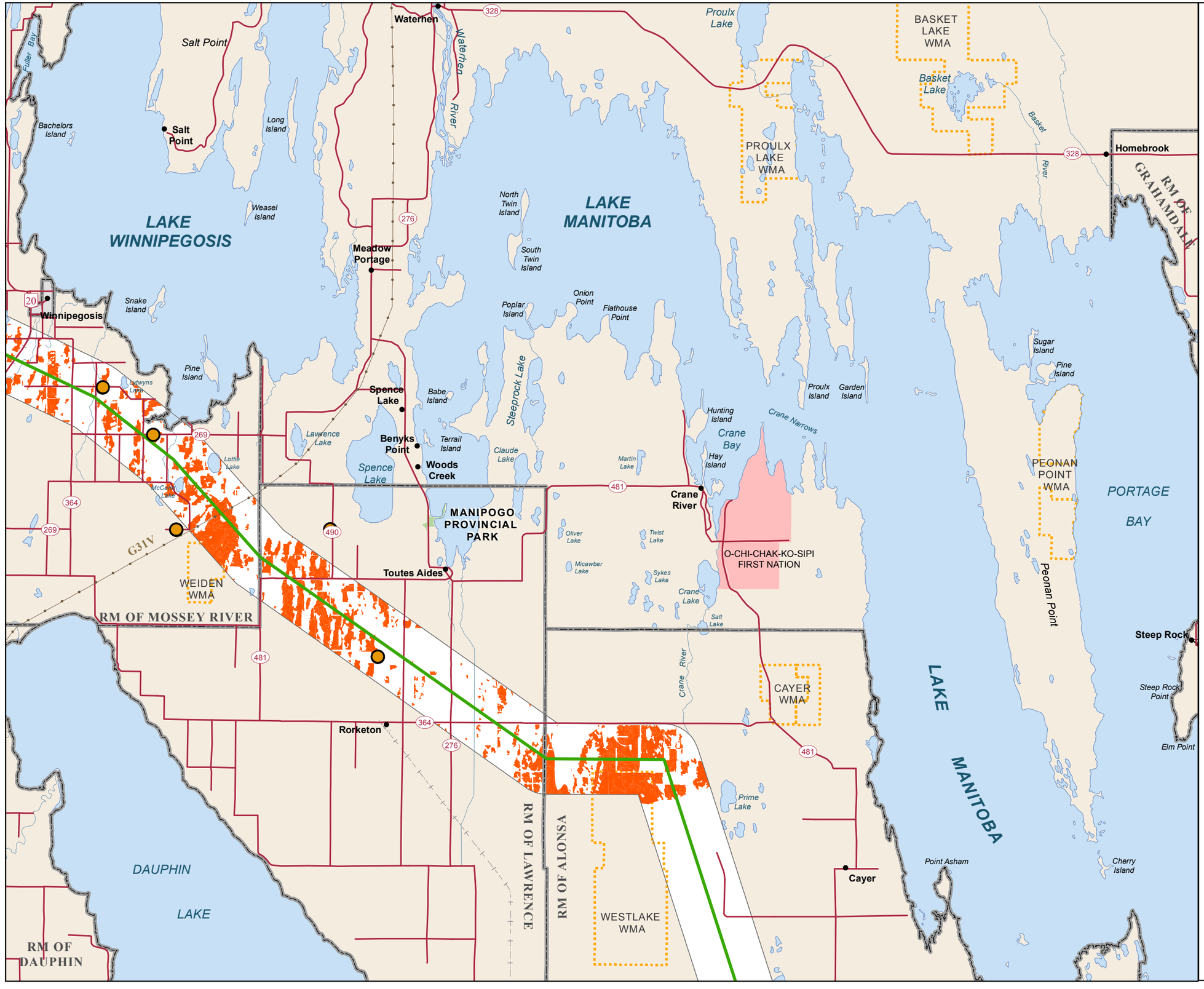
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-12



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-13

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

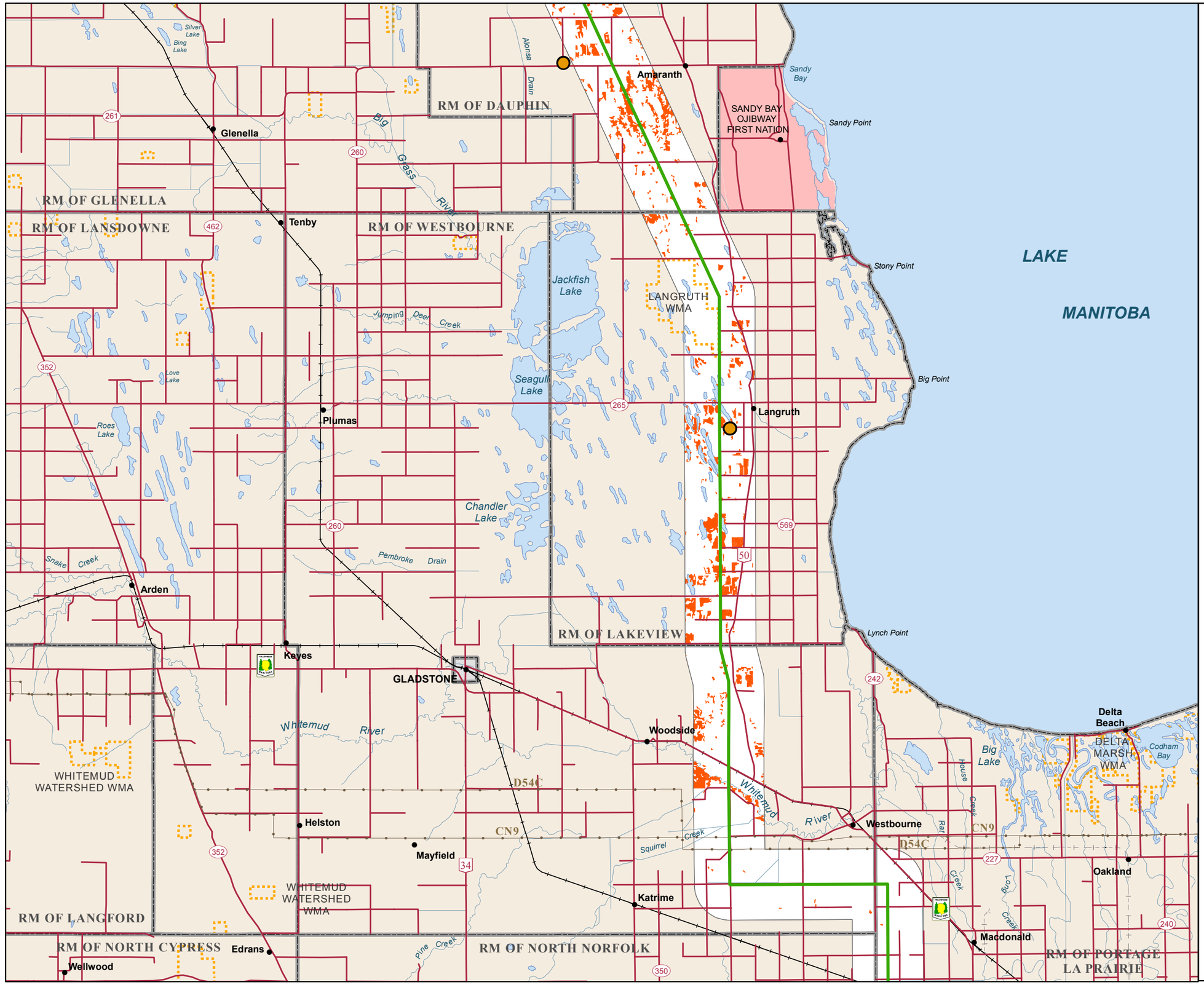
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-14



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
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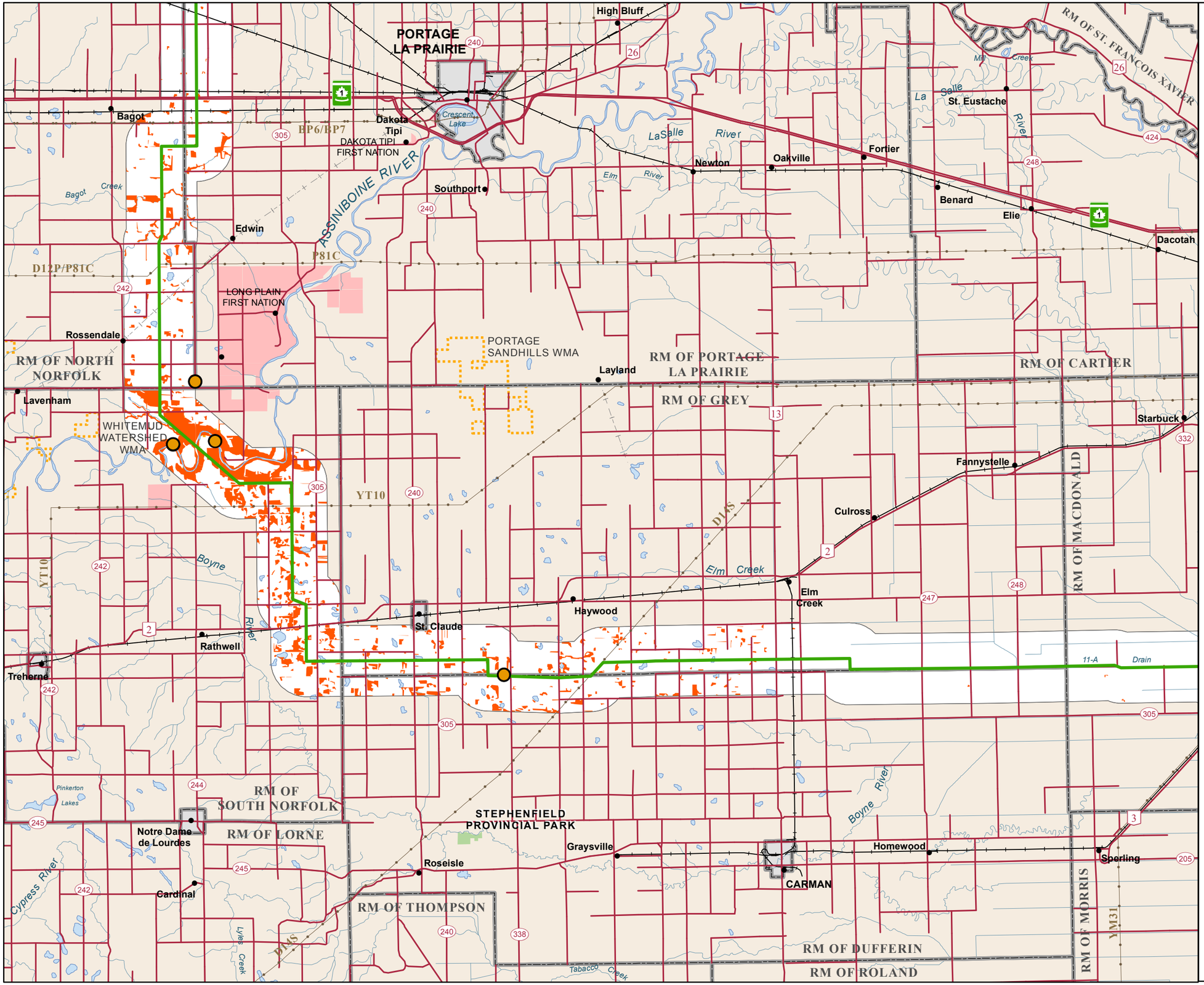
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-15



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure
- Transmission Line

Bird Information
- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase
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- Provincial Forest
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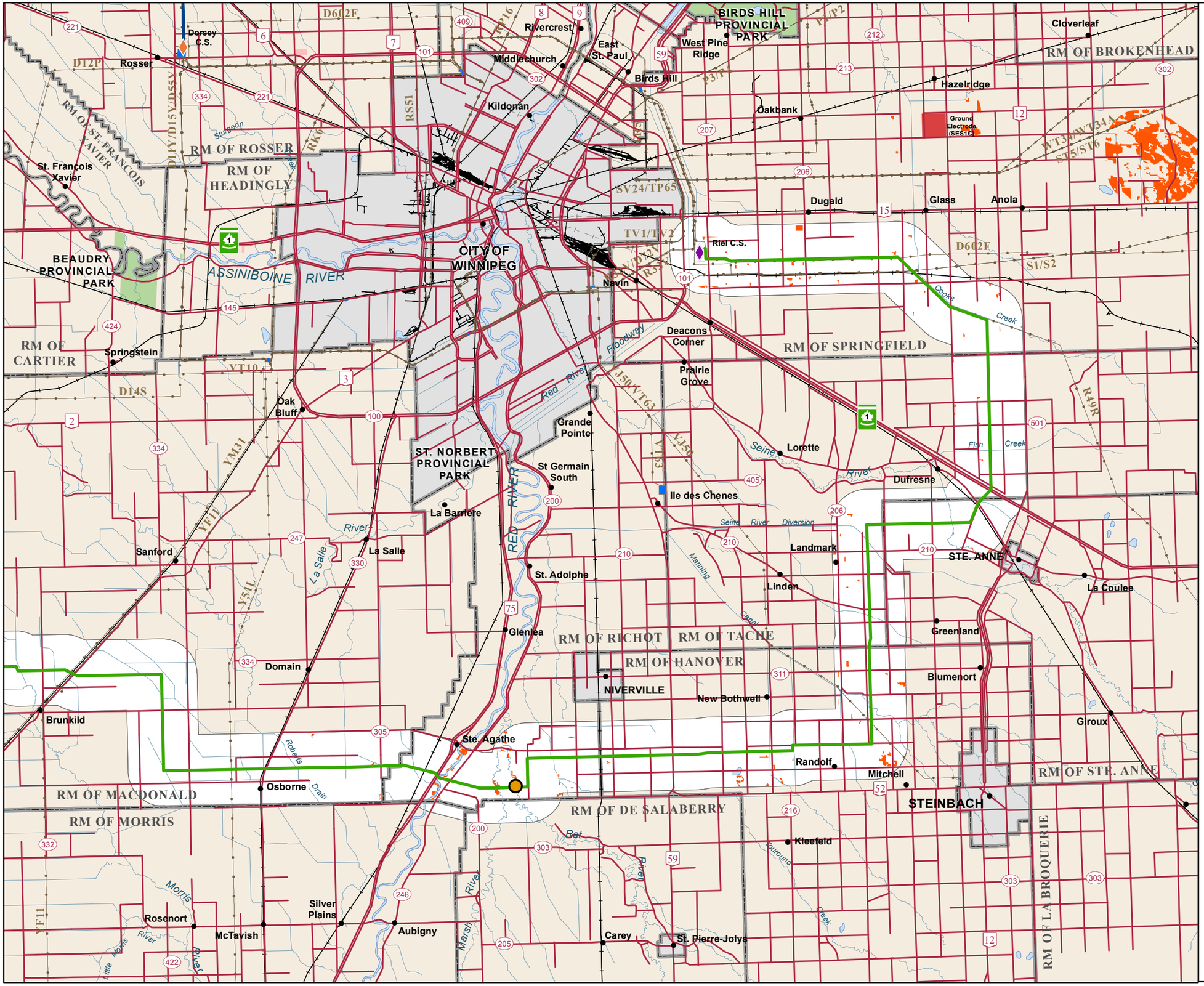
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

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

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Infrastructure

- Transmission Line

Bird Information

- Pileated Woodpecker Survey Observations
- Pileated Woodpecker Modeled Habitat

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN, MMM, Stantec, WRCS, Joro
Date Created: July 25, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Distribution of Modeled Pileated Woodpecker Habitat in the Local Study Area

Map 1800-17