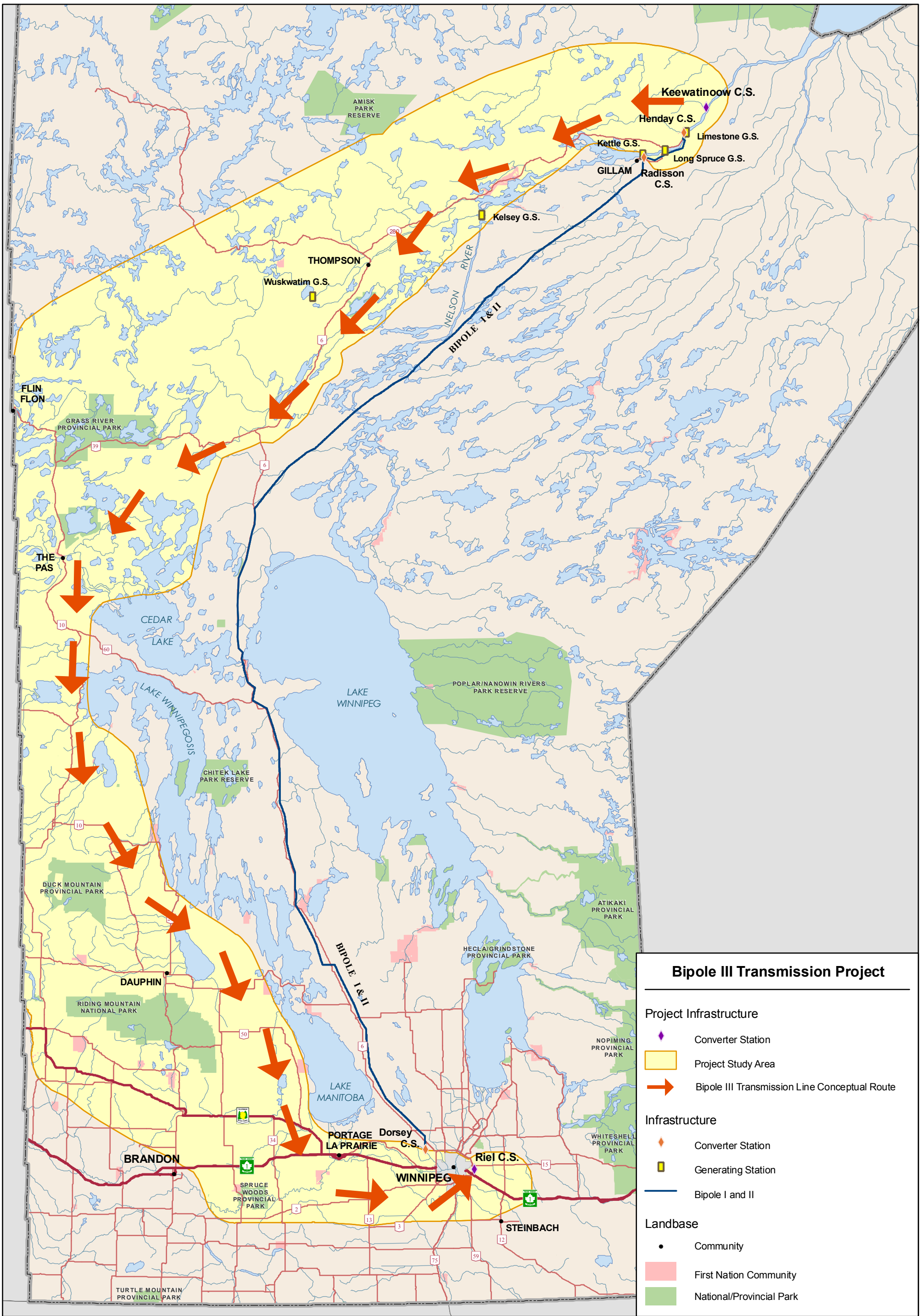


Manitoba Hydro

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

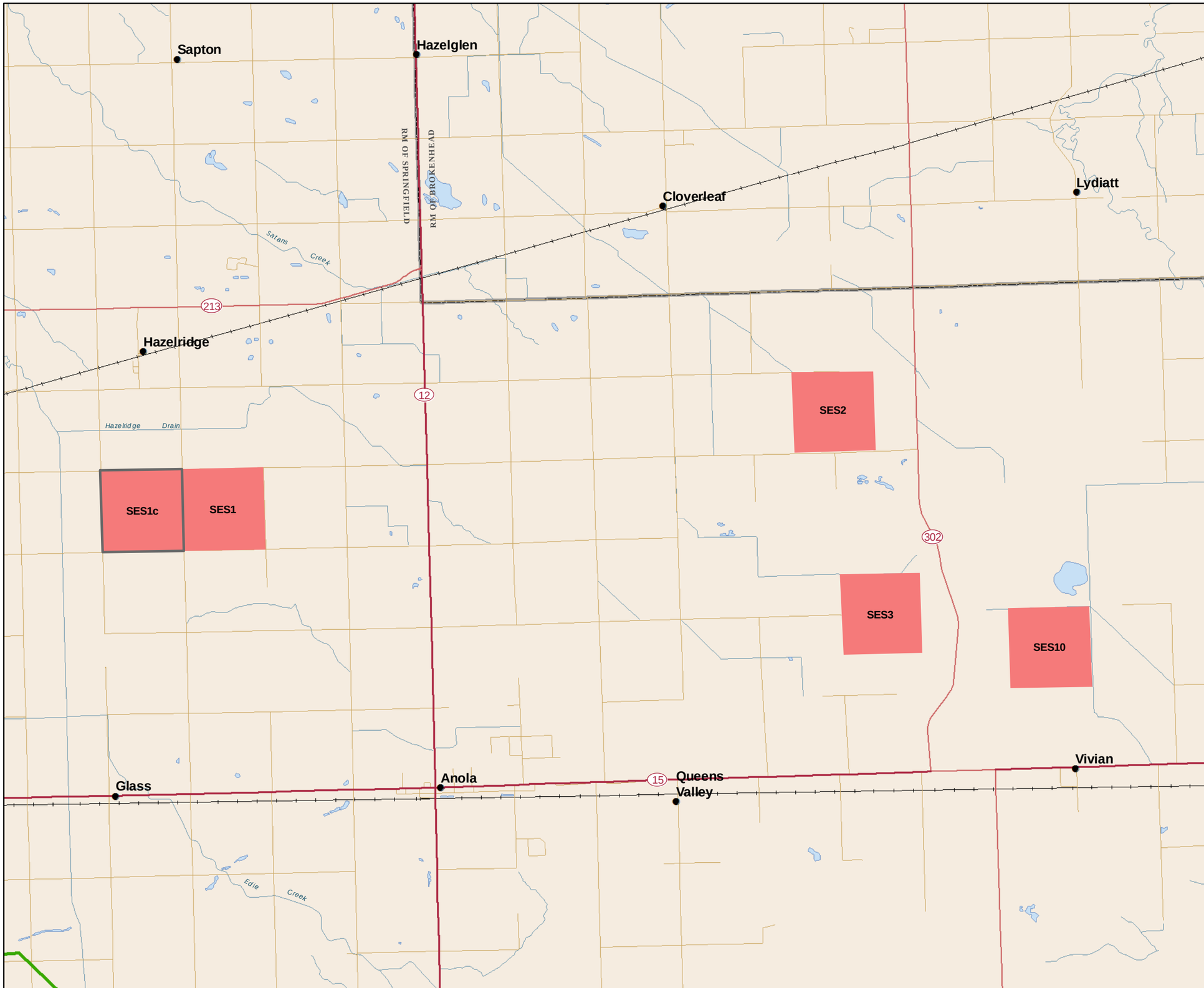
0 25 50 Kilometres
0 25 50 Miles

N

1:2,500,000

Proposed Concept Plan

Map 3-1



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Preliminary Preferred Ground Electrode Site
- Candidate Ground Electrode Site

Landbase

- Community
- City / Town
- Rural Municipality
- Provincial Highway
- Provincial Road
- Road (Other)
- Active Rail

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: November 01, 2011

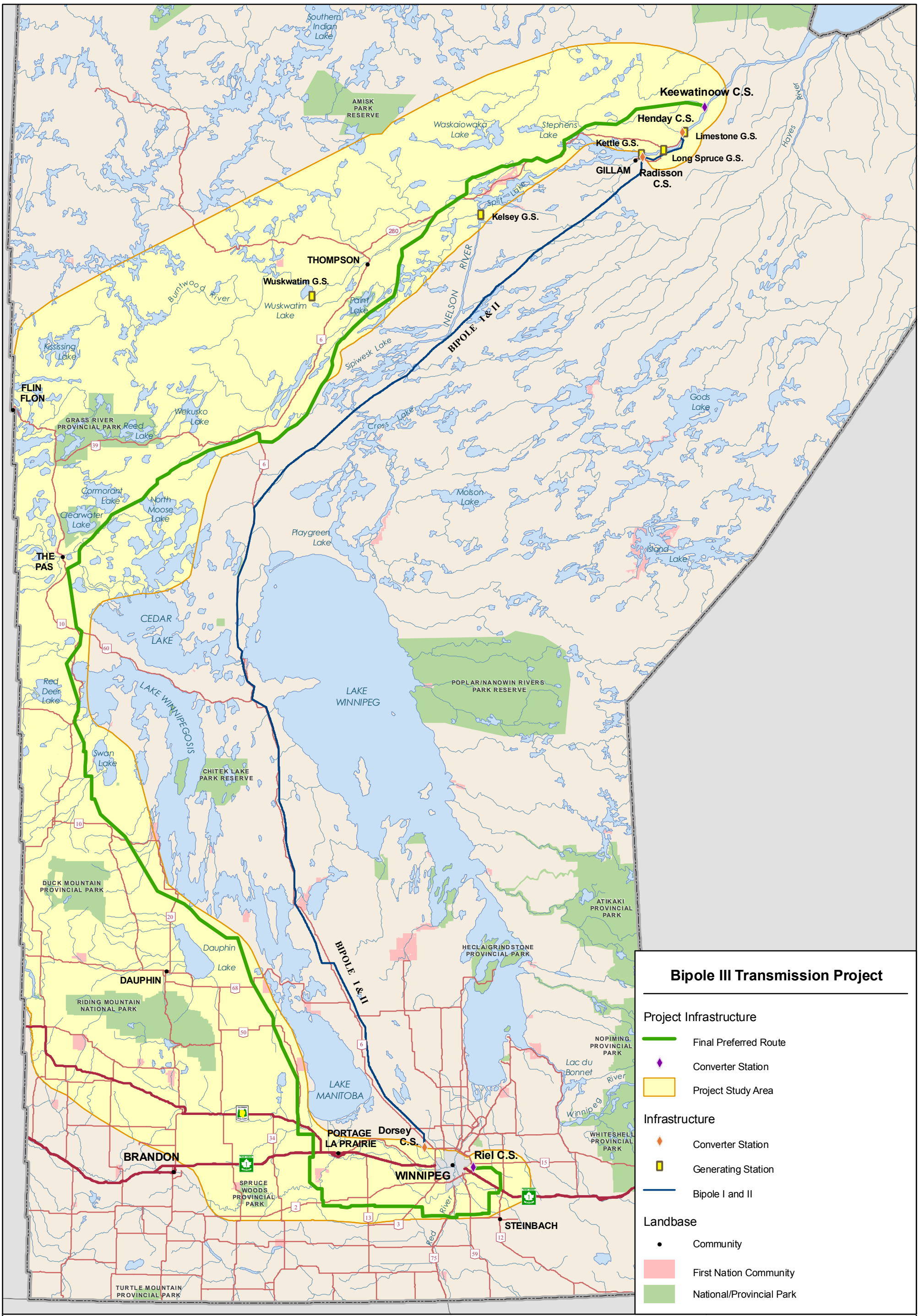
N

0 1 2 Kilometres
0 1 2 Miles

1:75,000

Candidate and Preliminary Preferred Sites Considered for Riel Ground Electrode

Map 3 - 10



Manitoba Hydro

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

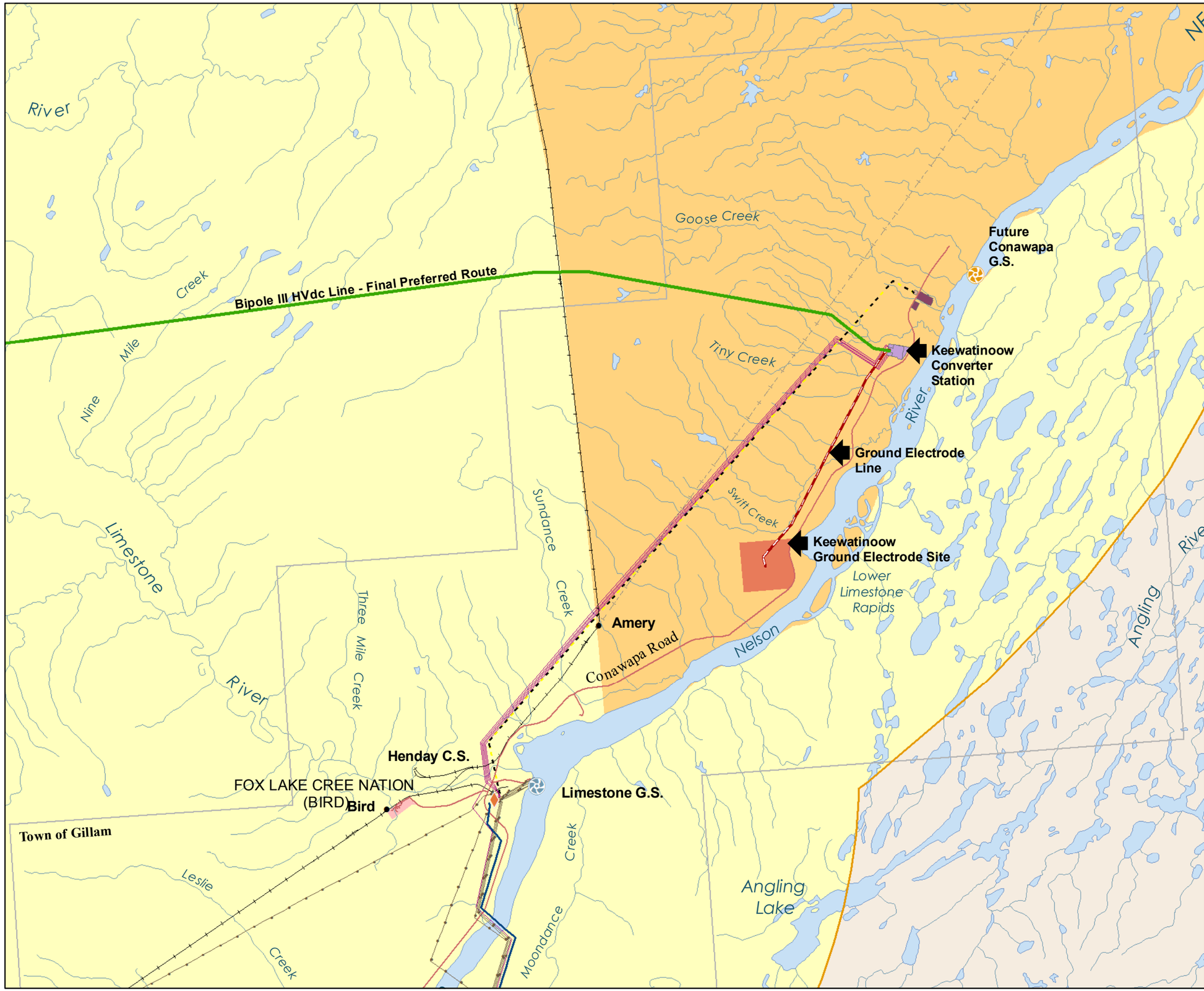
0 25 50 Kilometres
0 25 50 Miles

N

1:2,500,000

Final Preferred HVdc Transmission Line Route

Map 3-2



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

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

Infrastructure

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

Landbase

- Community
- First Nation
- Wildlife Management Area

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

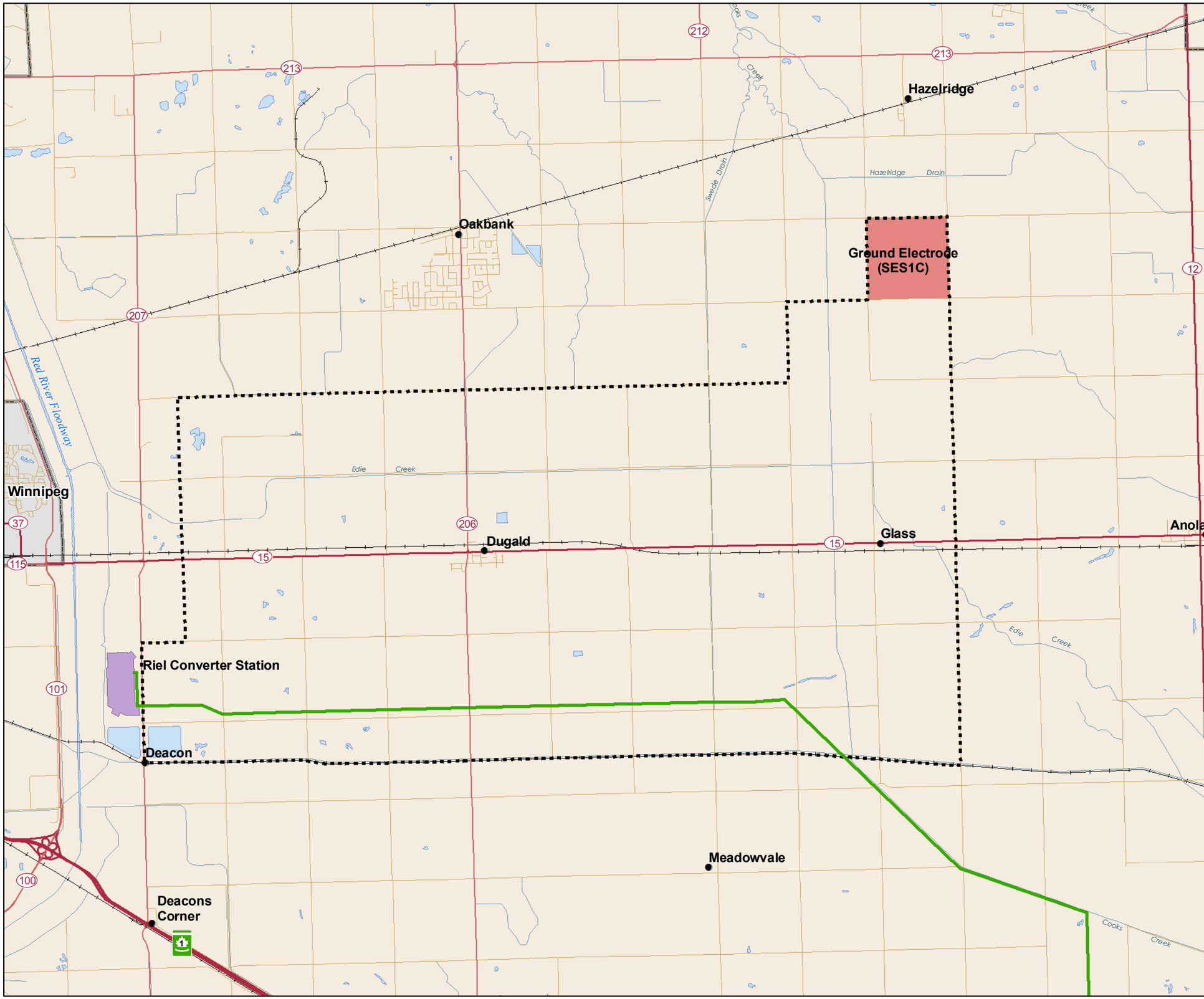
N

0 2.5 5 Kilometres
0 1 2 Miles

1:150,000

Keewatinoow Converter Station and Ground Electrode Site

Map 3-3



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Ground Electrode Site
- Ground Electrode Line Study Area

Landbase

- Community
- City / Town
- Rural Municipality
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Road (Other)
- Active Rail

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

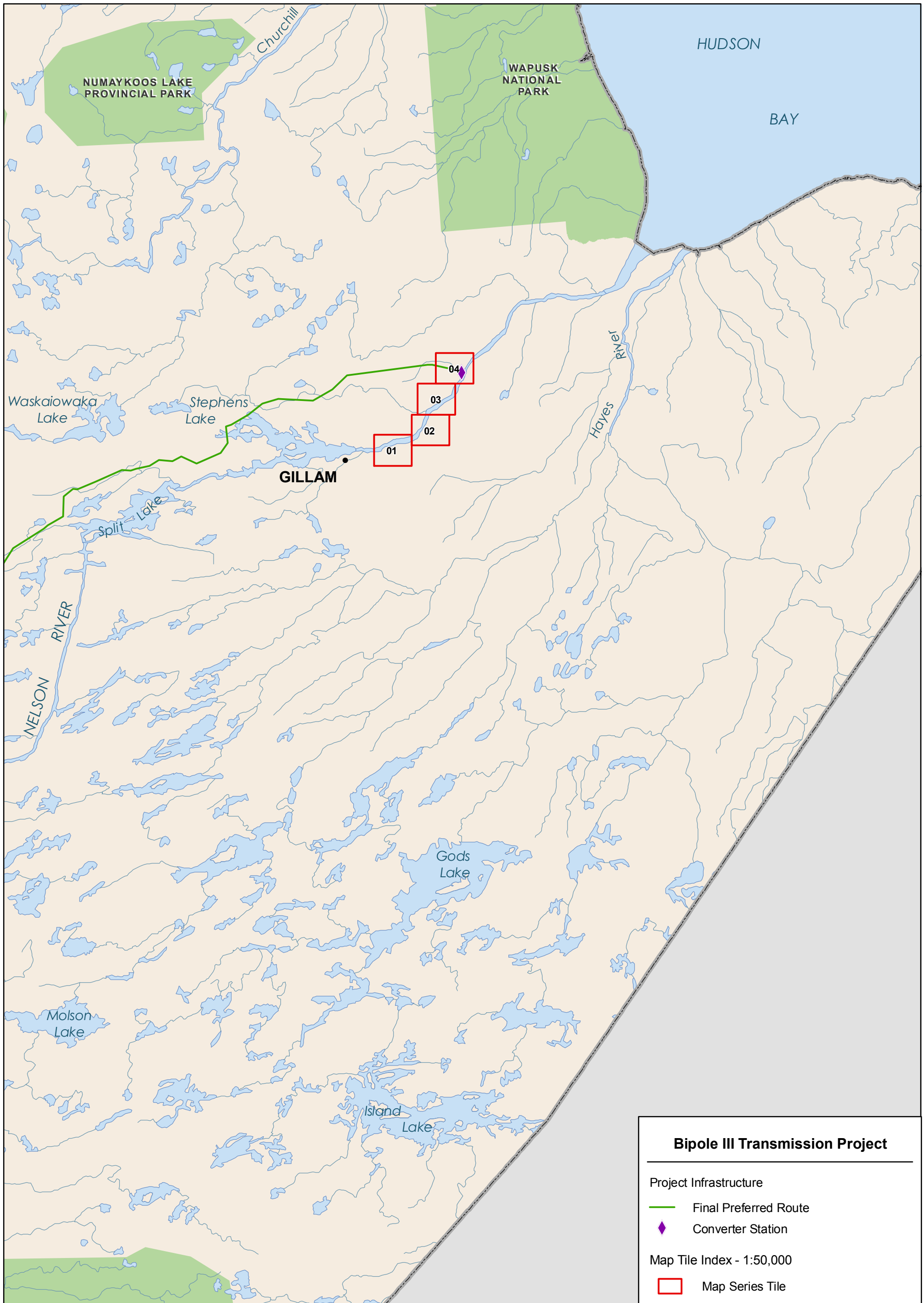
N

0 1 2 Kilometres
0 1 2 Miles

1:75,000

Riel Converter Station and Ground Electrode Site

Map 3 - 4



Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, Stantec, ProvMB
Date Created: October 28, 2011

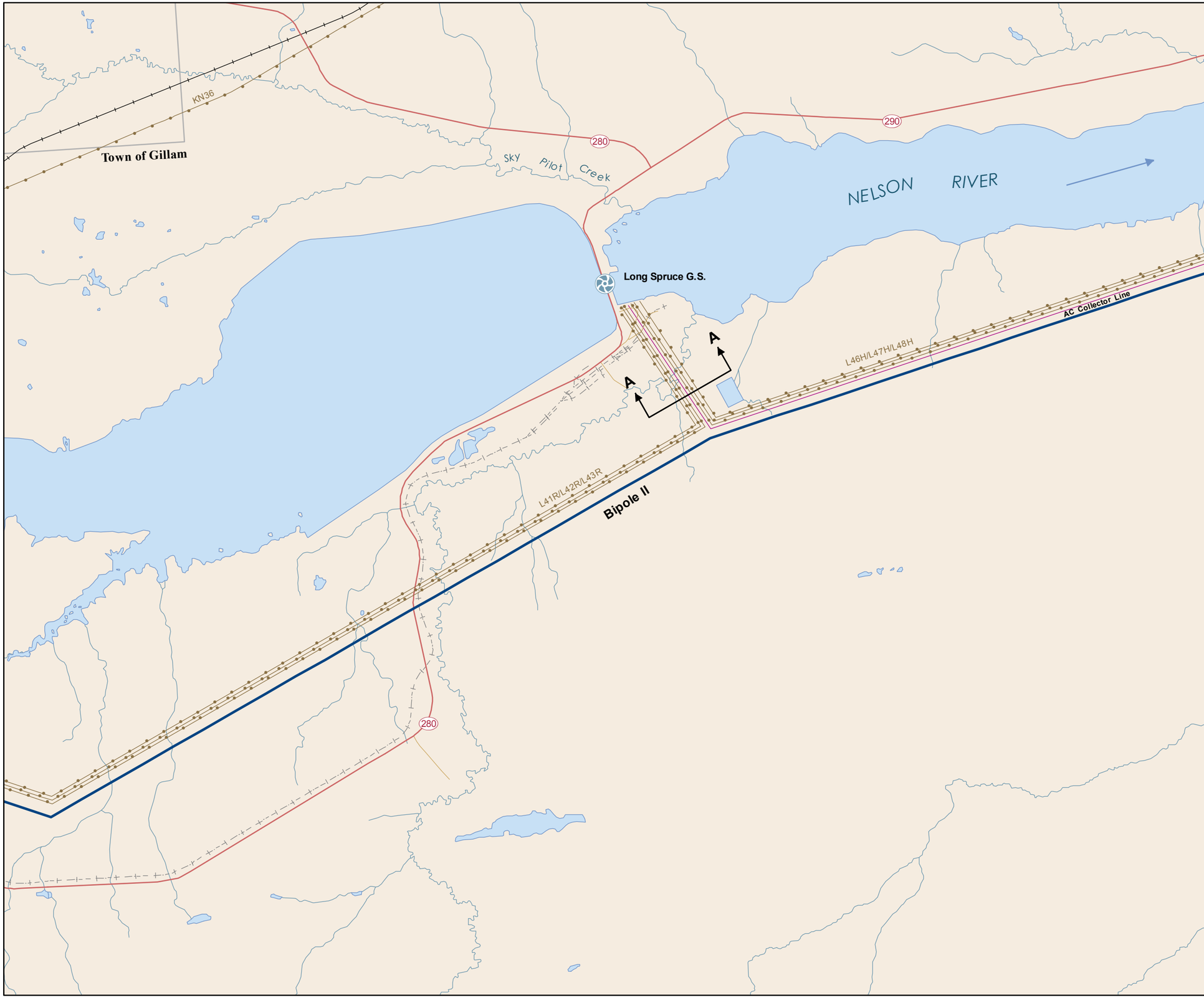
0 15 30 Kilometres
0 15 30 Miles

1:1,500,000

N

Index of Map Series 3 - 500

Northern Project Components



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

AC Collector Line

Infrastructure

Generating Station

Bipole II

Transmission Line

Landbase

Provincial Road

Rail

Active

Abandoned

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 28, 2011

N

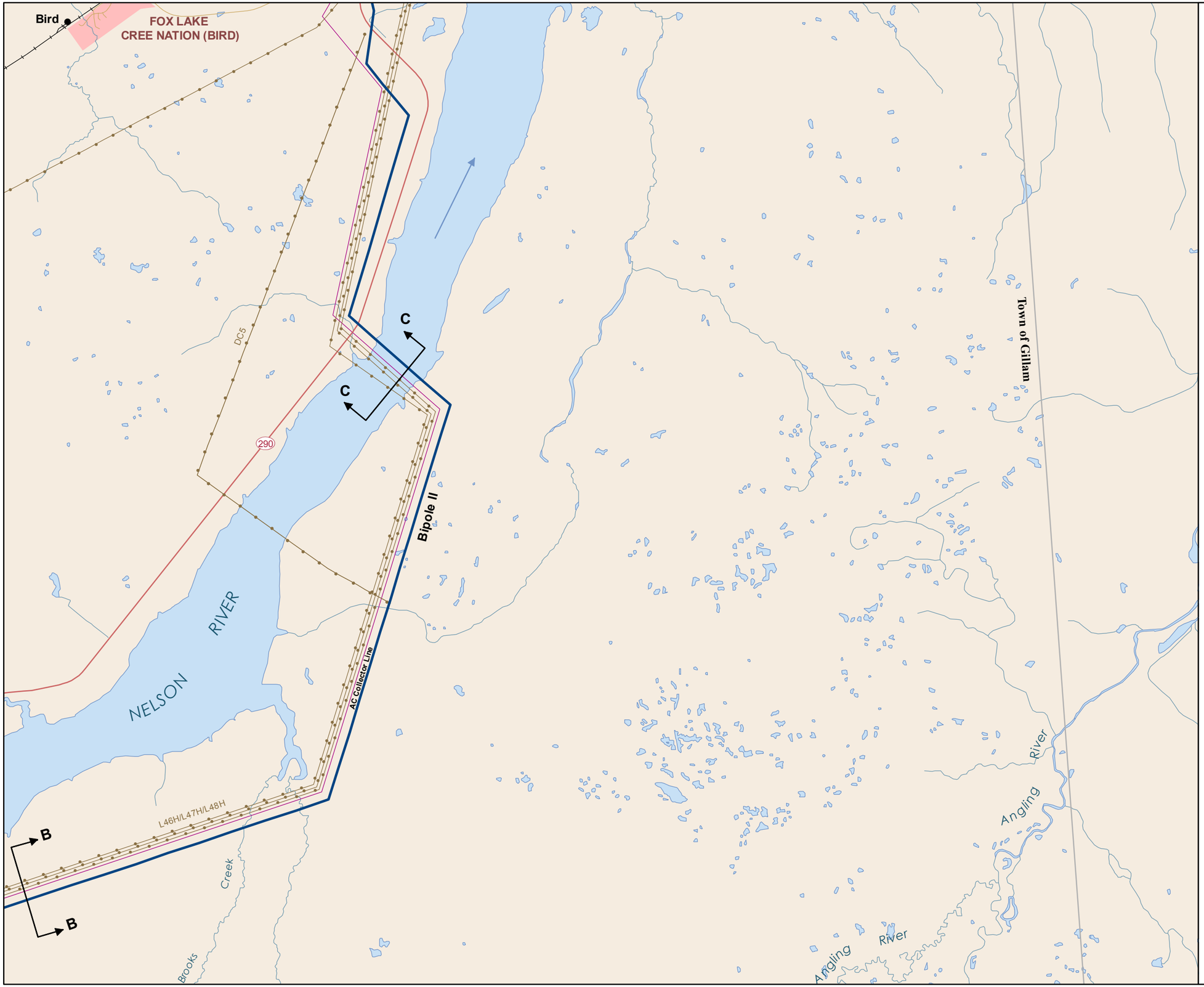
0 0.5 1 Kilometres

0 0.5 1 Miles

1:50,000

Northern Project Components

Map 3 - 500- 1



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- AC Collector Line

Infrastructure

- Bipole II
- Transmission Line

Landbase

- Community
- First Nation
- Provincial Road

Rail

- Active
- Abandoned

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 28, 2011

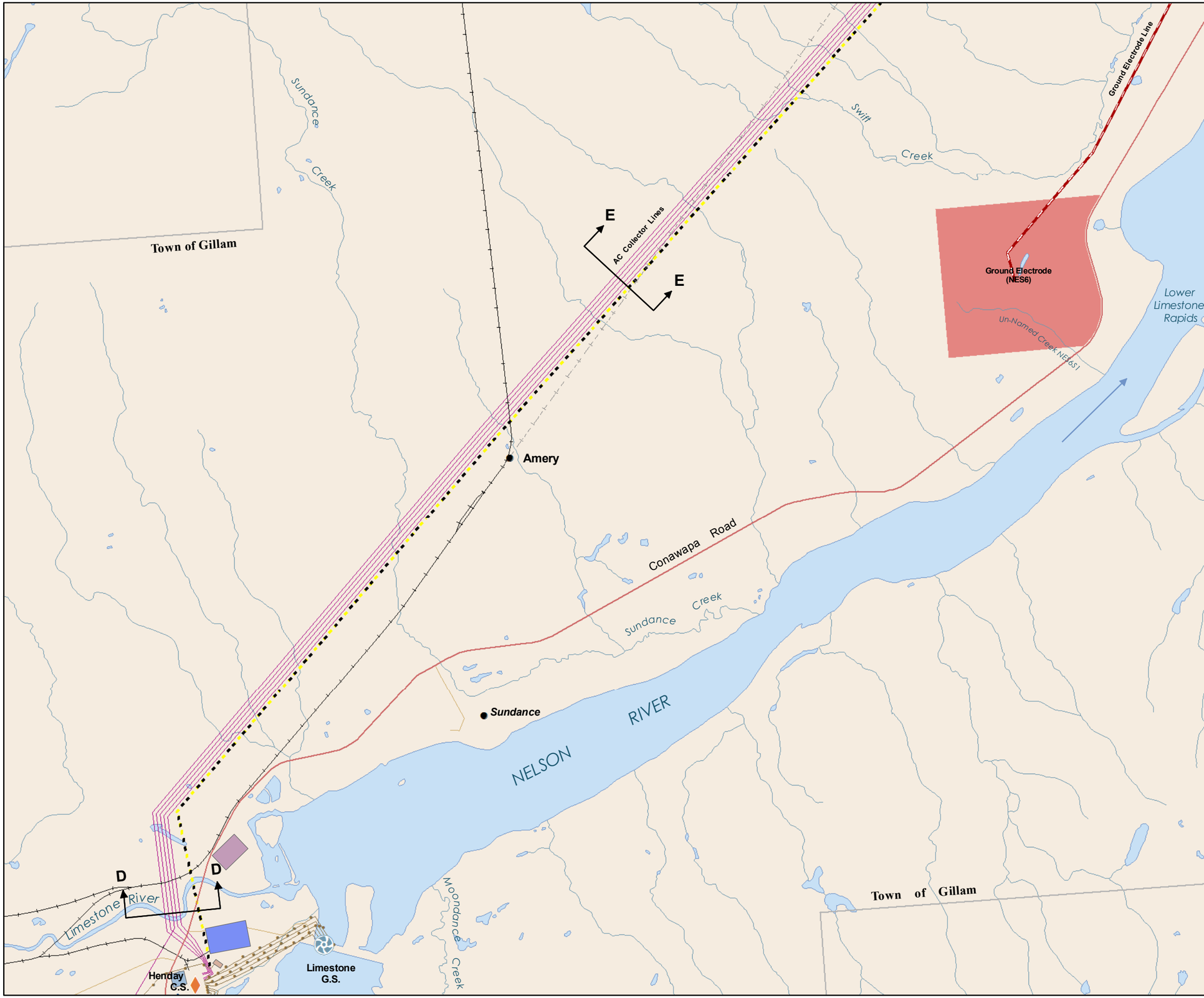
N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Northern Project Components

Map 3 - 500- 2



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Limestone Construction Power Station Site
- Manitoba Hydro and Contractor Work Area Site
- Limestone Stores Area
- Henday Storage

Infrastructure

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

Landbase

- Community
- Provincial Road

Rail

- Active
- Abandoned

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 28, 2011

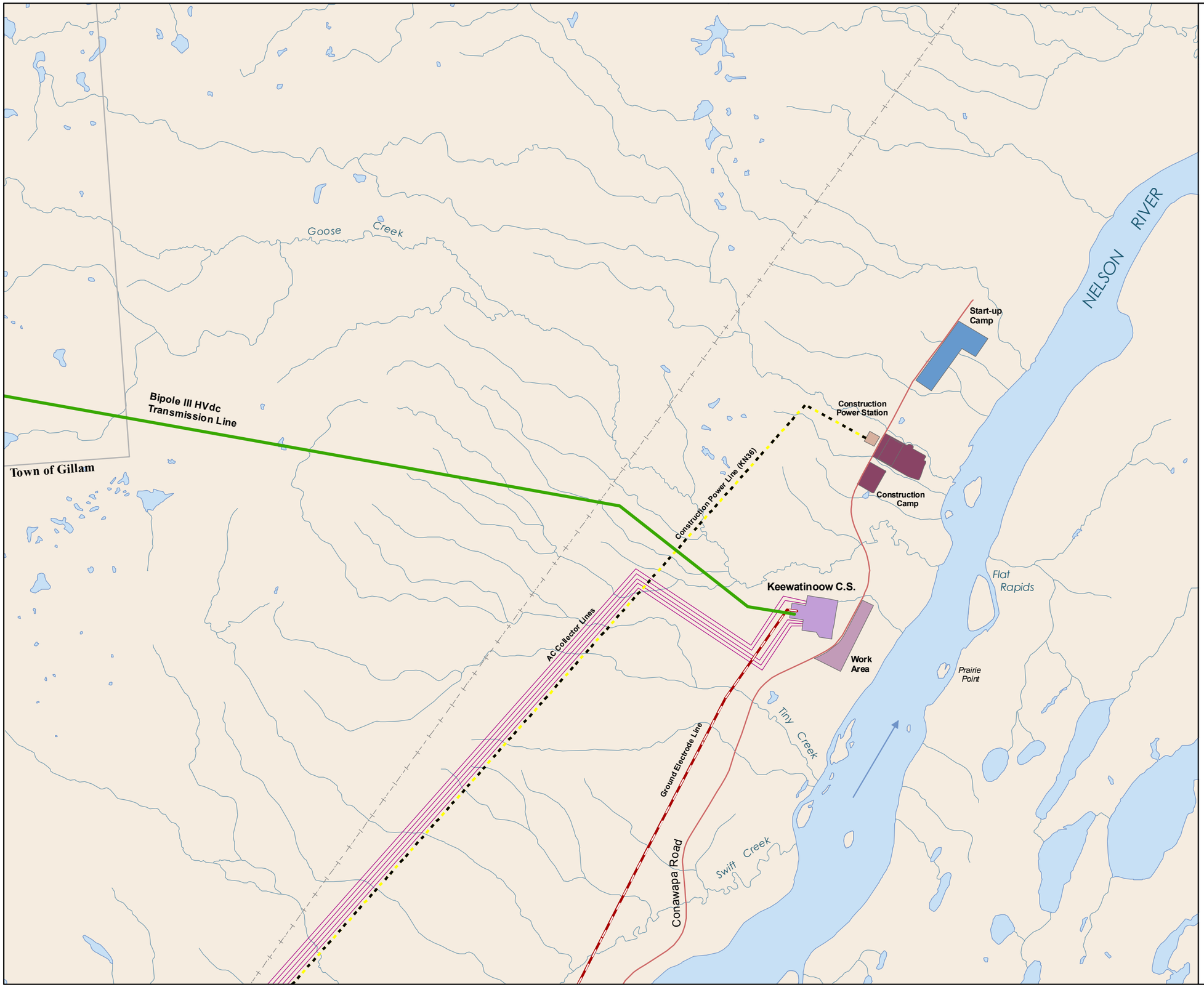
N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Northern Project Components

Map 3 - 500- 3



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Power Station Site
- Construction Camp Site
- Manitoba Hydro and Contractor Work Area Site
- Start-up Camp Site

Landbase

- Provincial Road

Rail

- Active
- Abandoned

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: October 28, 2011

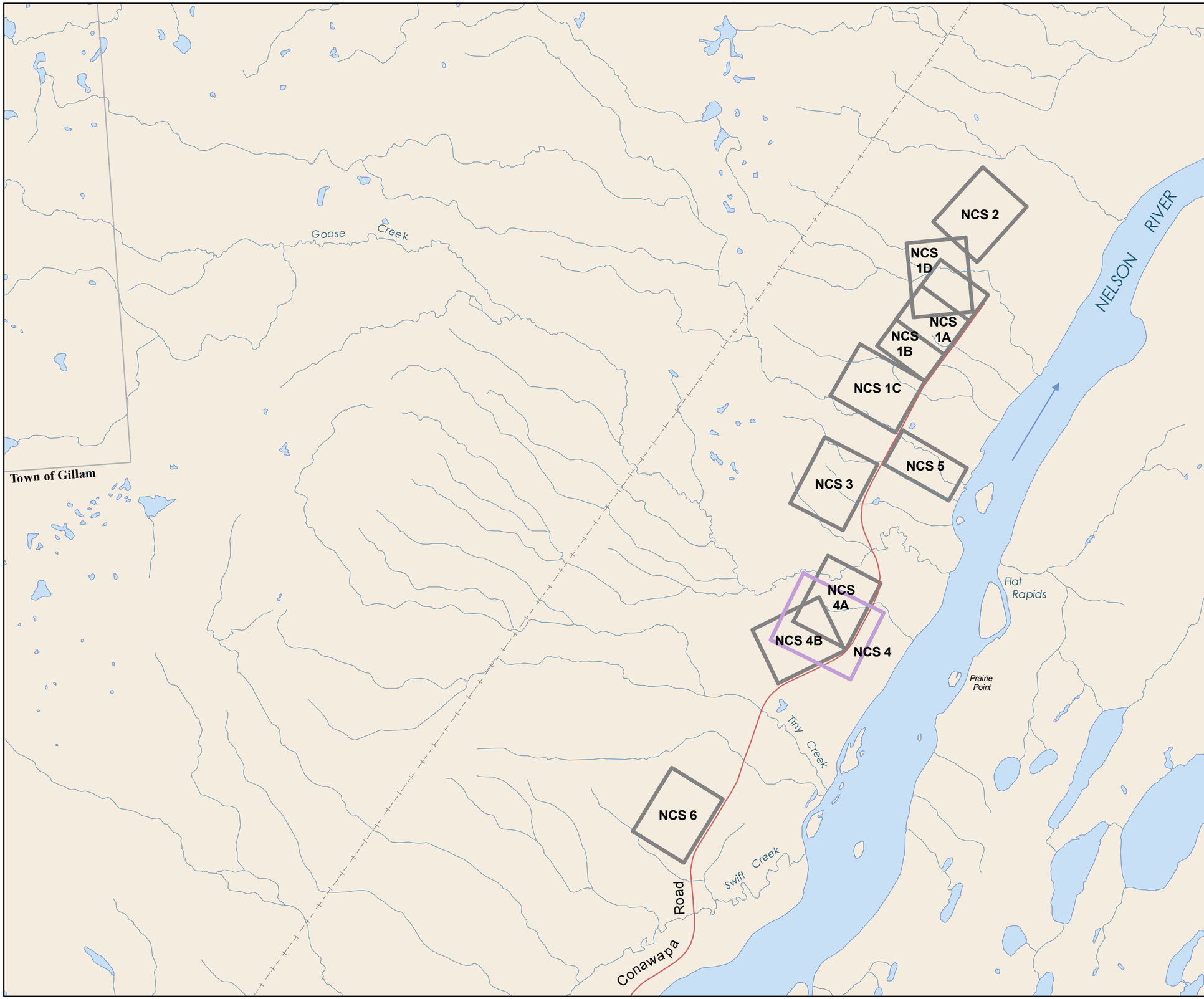
N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Northern Project Components

Map 3 - 500- 4



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Potential Converter Station Sites
- Preliminary Preferred Converter Station Site

Landbase

- Provincial Road
- Abandoned Rail

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: November 01, 2011

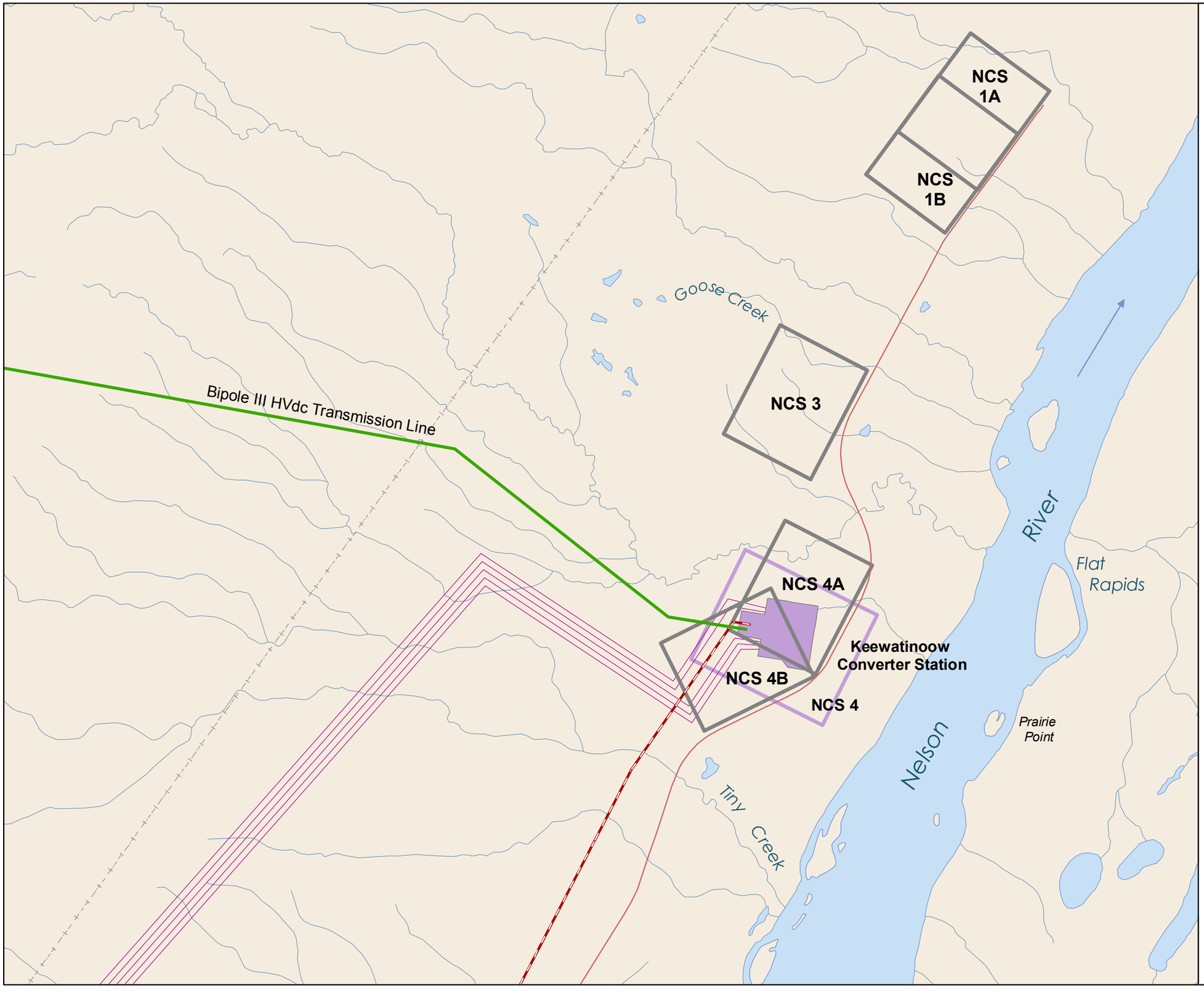
N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Potential Sites Considered for Keewatinoow Converter Station

Map 3-6



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Candidate Converter Station Site
- Preliminary Preferred Converter Station Site

Landbase

- Provincial Road
- Abandoned Rail

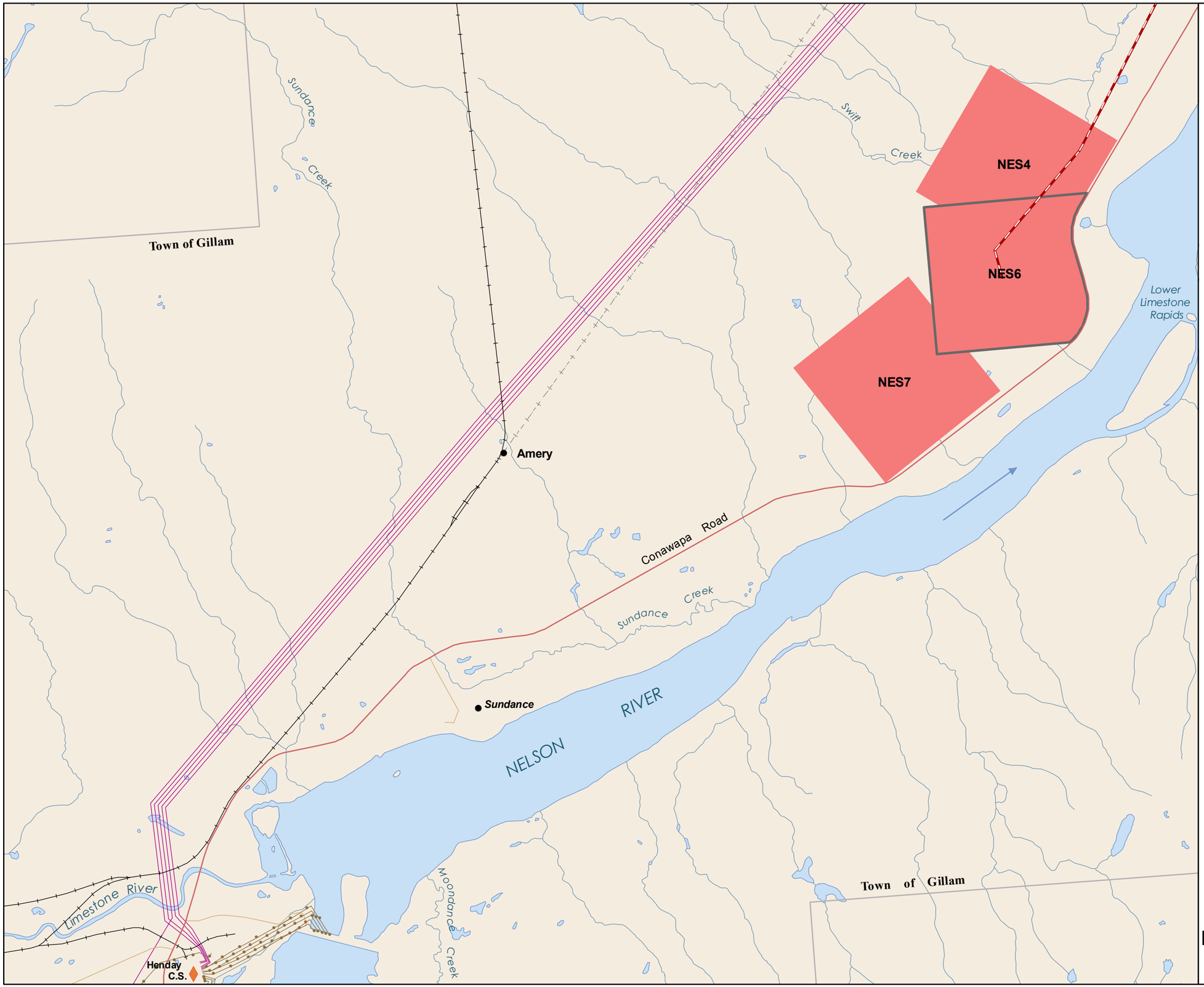
Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: November 01, 2011

N

0 0.5 1 Kilometres
0 0.5 1 Miles 1:30,000

Candidate and Preliminary Preferred Sites Considered for Keewatinoow Converter Station

Map 3-7



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- AC Collector Line
- Ground Electrode Line
- Preliminary Preferred Ground Electrode Site
- Candidate Ground Electrode Site

Infrastructure

- Converter Station
- Transmission Line

Landbase

- Provincial Road
- Road (Other)

Rail

- Active
- Abandoned

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: November 01, 2011

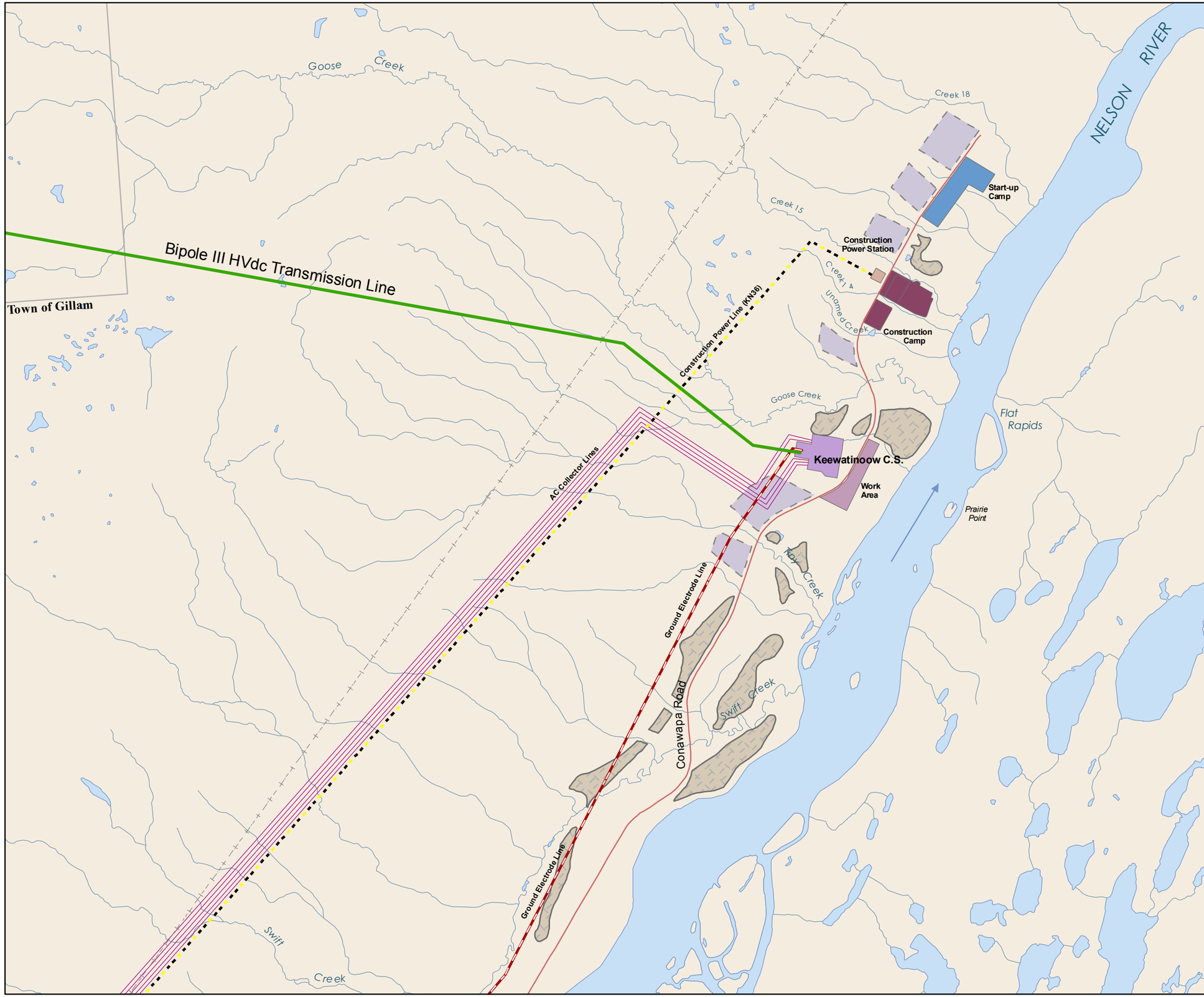
N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Candidate and Preliminary Preferred Sites Considered for Keewatinoow Ground Electrode

Map 3-8



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- AC Collector Line
- Ground Electrode Line
- Construction Power (KN36)
- Construction Power Station Site
- Main Construction Camp Site
- Manitoba Hydro and Contractor Work Area Site
- Start-up Camp Site

Borrow and Material Placement Areas

- Borrow Area
- Excavated Material Placement Area

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN, KGSA
Date Created: November 01, 2011

N

0 0.5 1 Kilometres
0 0.5 1 Miles

1:50,000

Keewatinoow Borrow and Material Placement Areas

Map 3-9