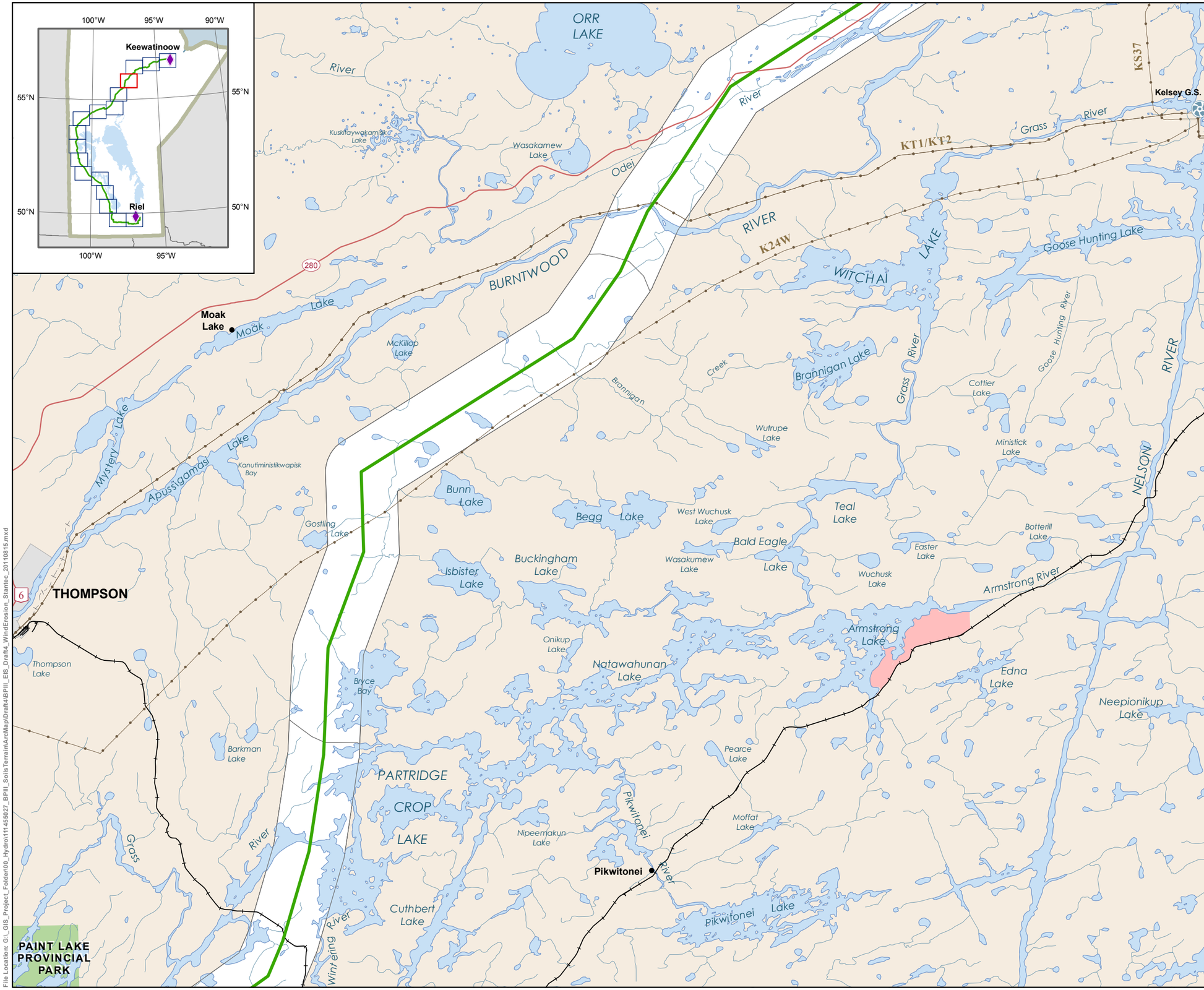

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Generating Station
- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 4

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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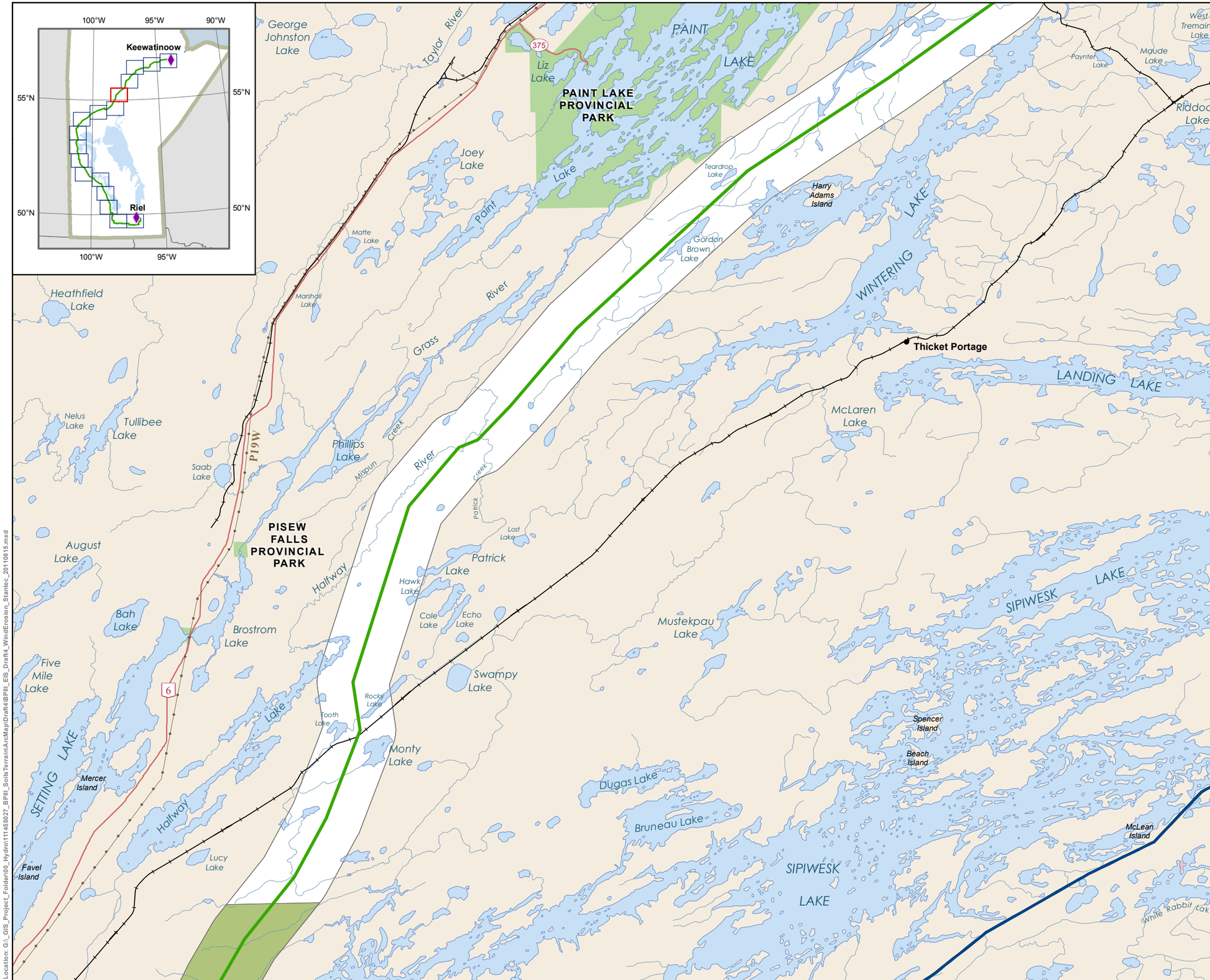

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Bipole I and II
- Transmission Line

Wind Erosion Risk
- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase
- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 5

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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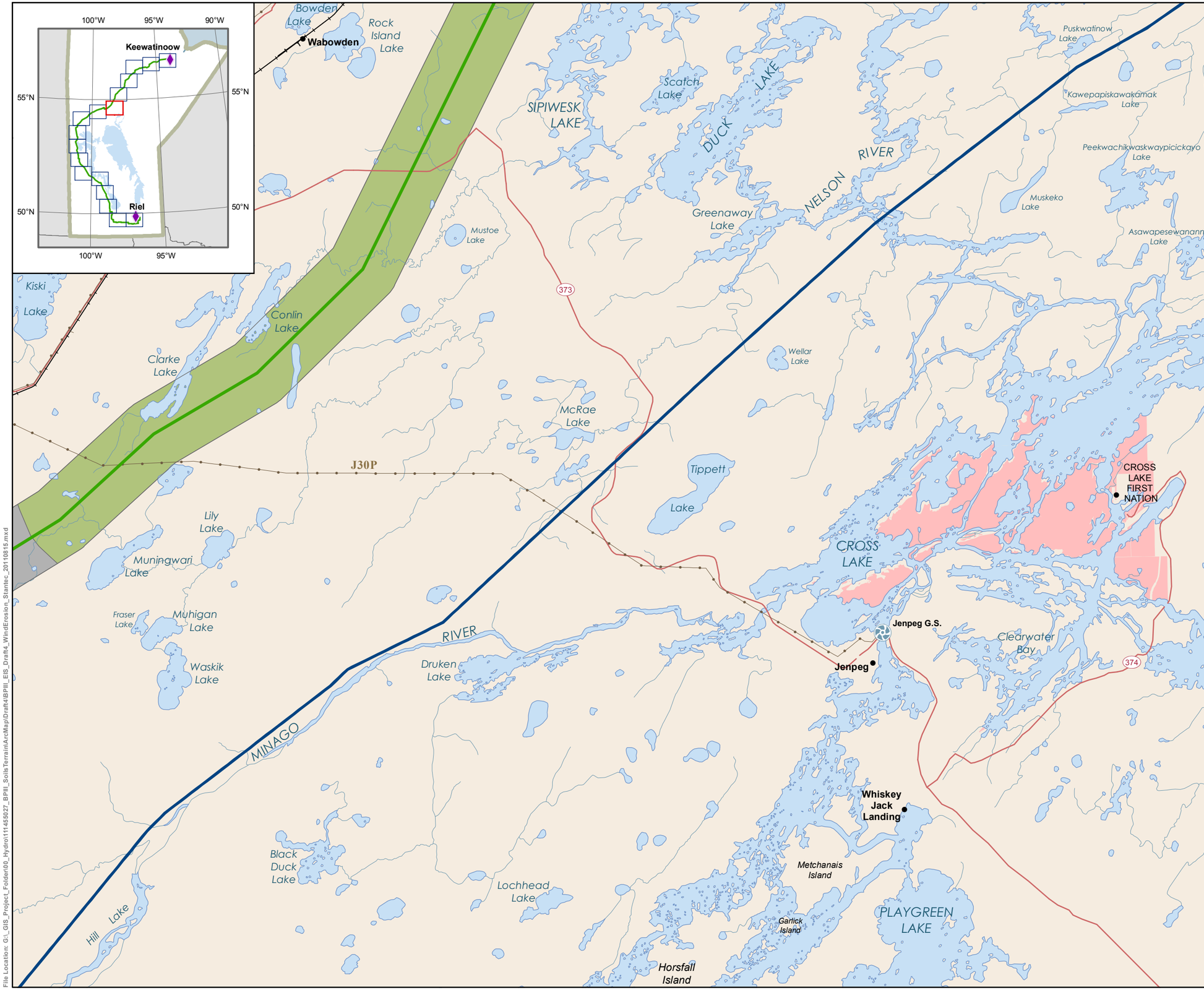

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Generating Station
- Bipole I and II
- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 6

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMapDraft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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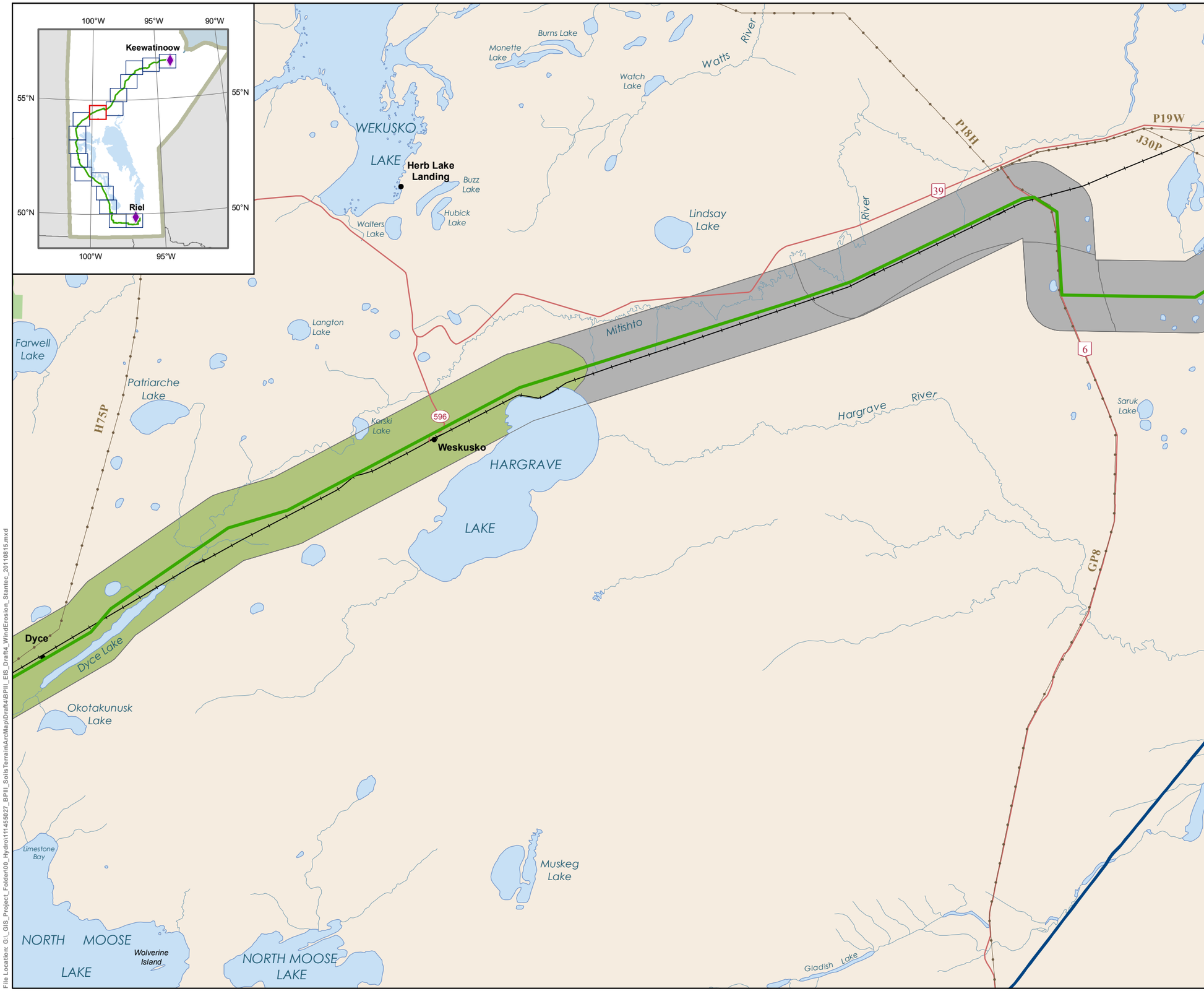

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Bipole I and II
- Transmission Line

Wind Erosion Risk
- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase
- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 7

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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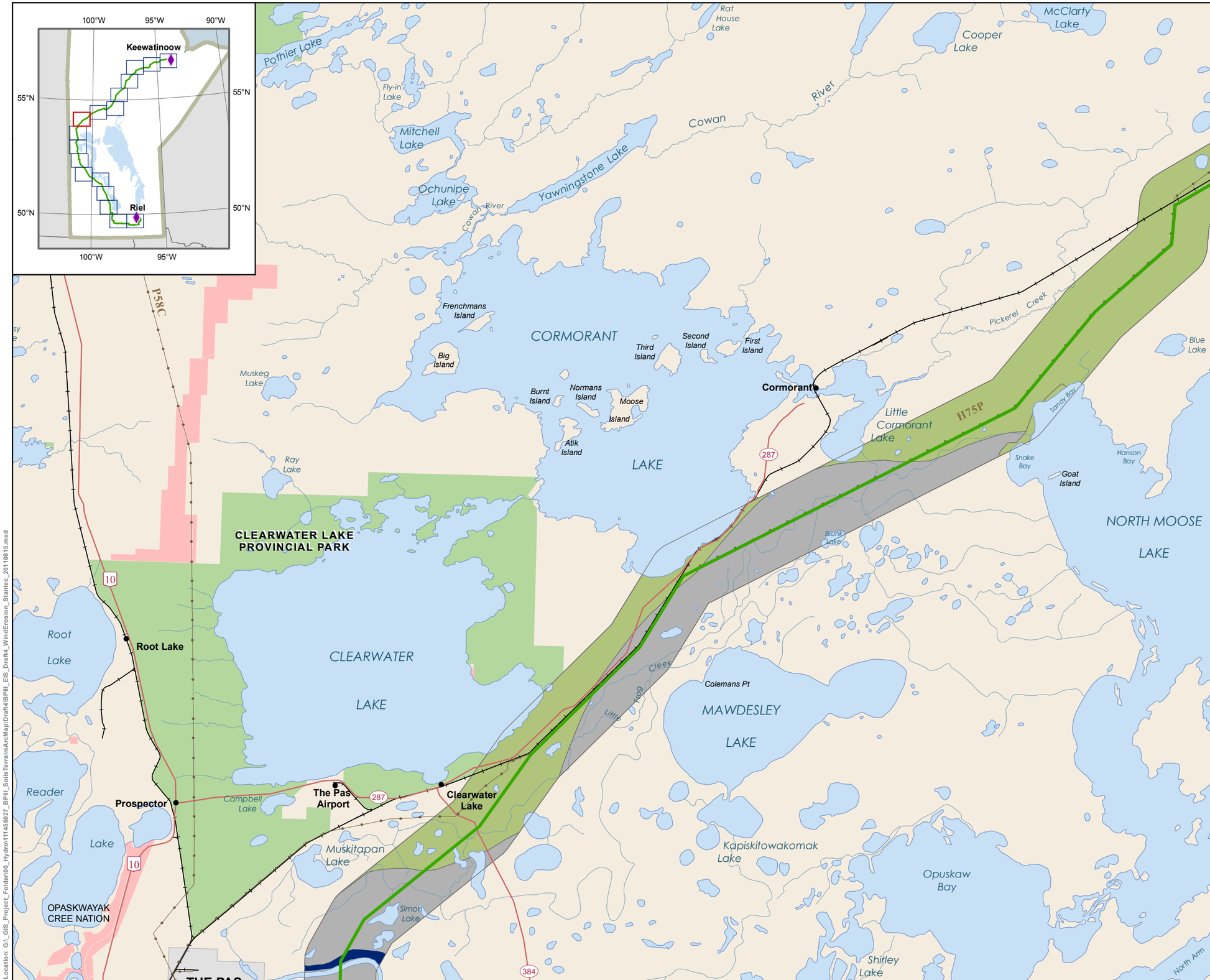


Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Transmission Line

Wind Erosion Risk
- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

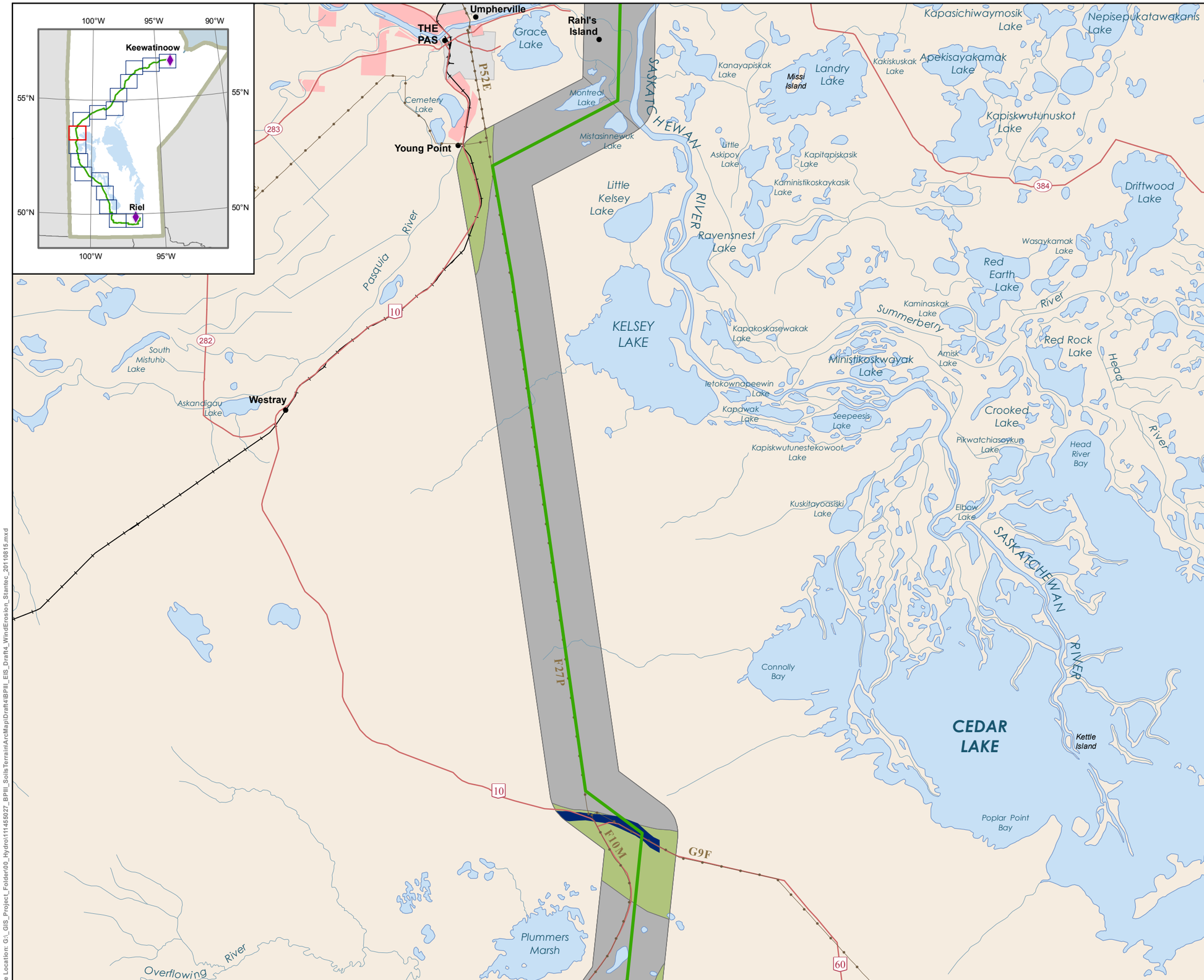
Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 8

Created By: Stantec

File Location: G:_GIS_Project_Folder\00_Hydro\111145027_BPIII_SoilsTerrainArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 9

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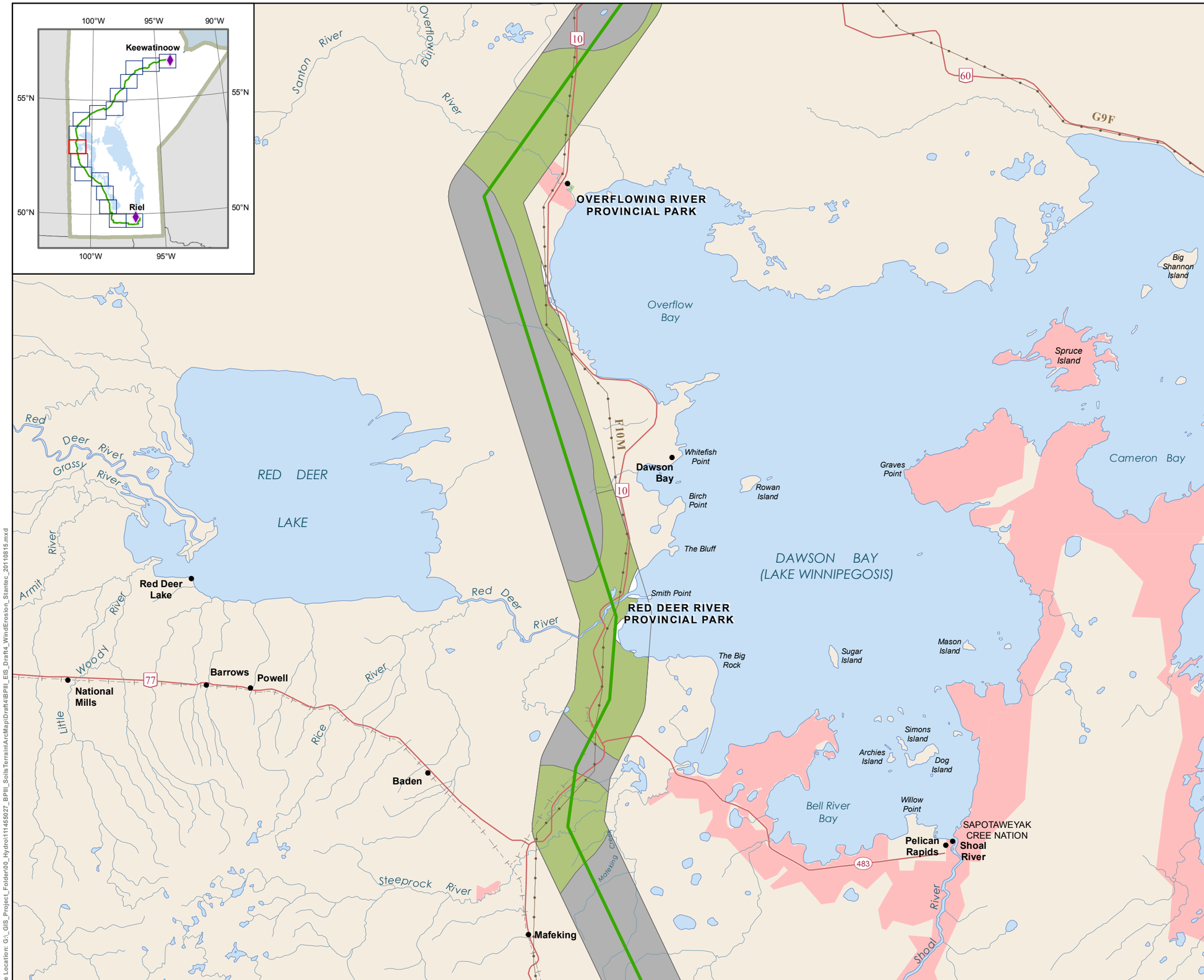

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 10

Created By: Stantec

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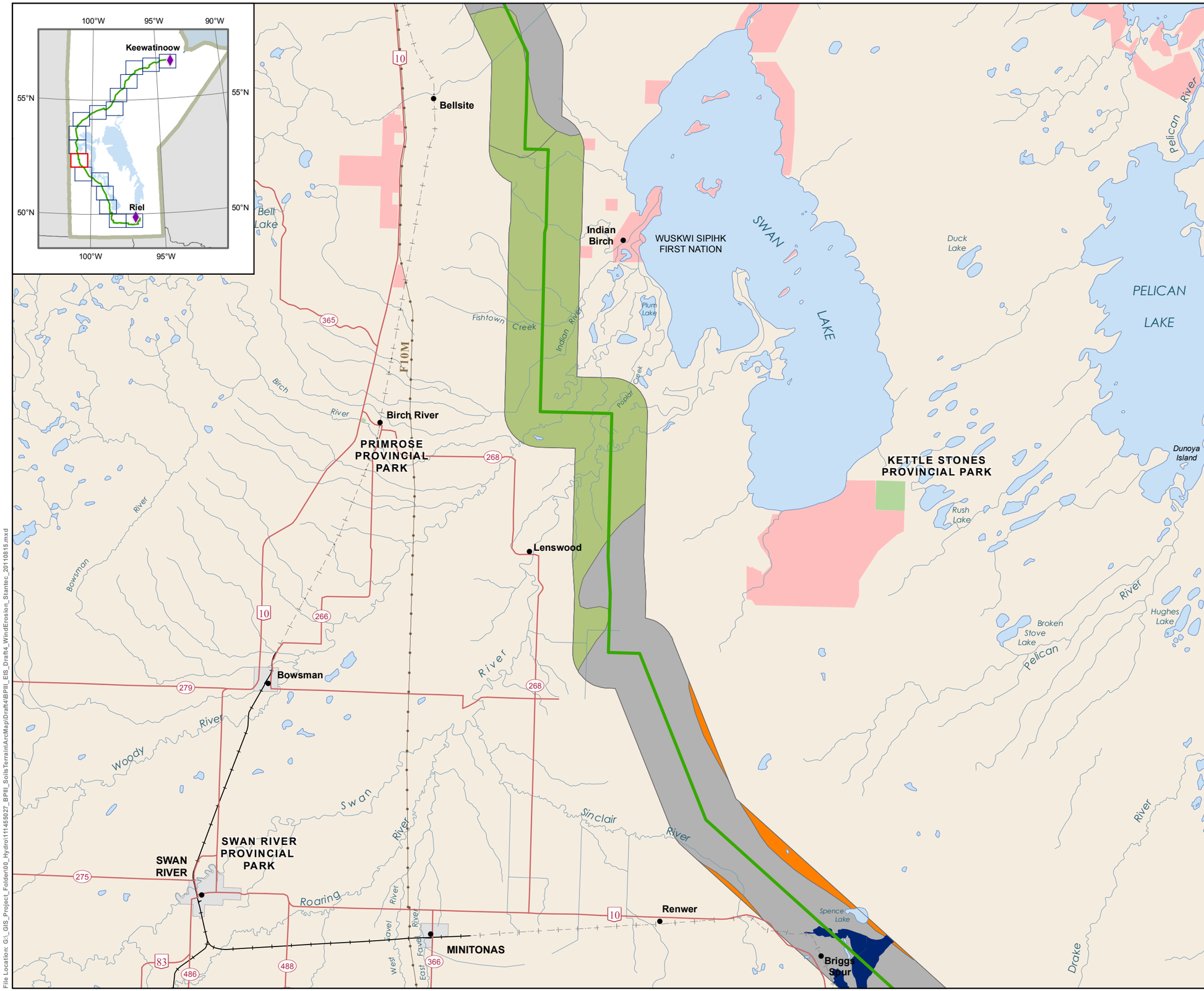

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 11

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMapDraft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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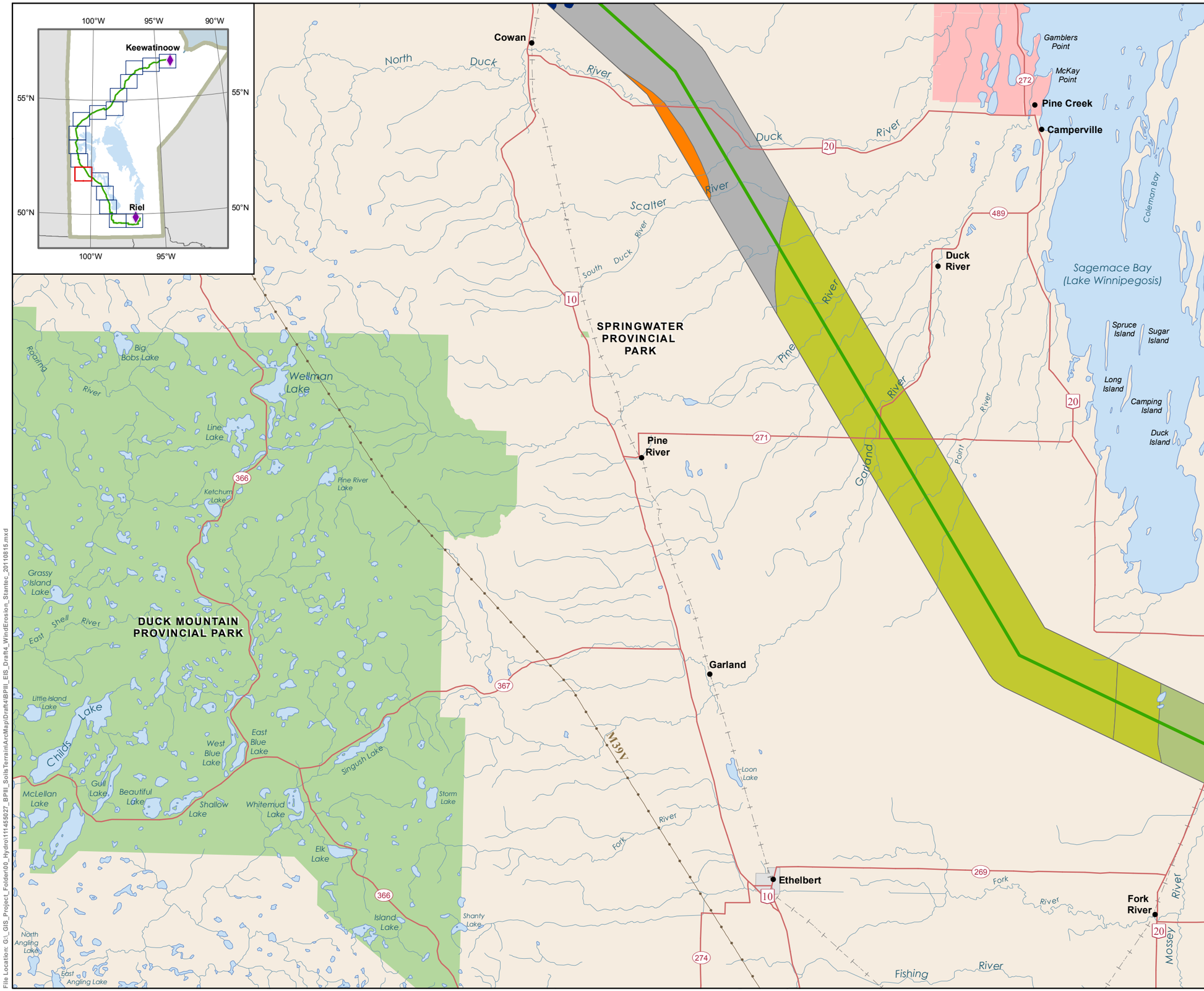

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Transmission Line

Wind Erosion Risk
- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 12

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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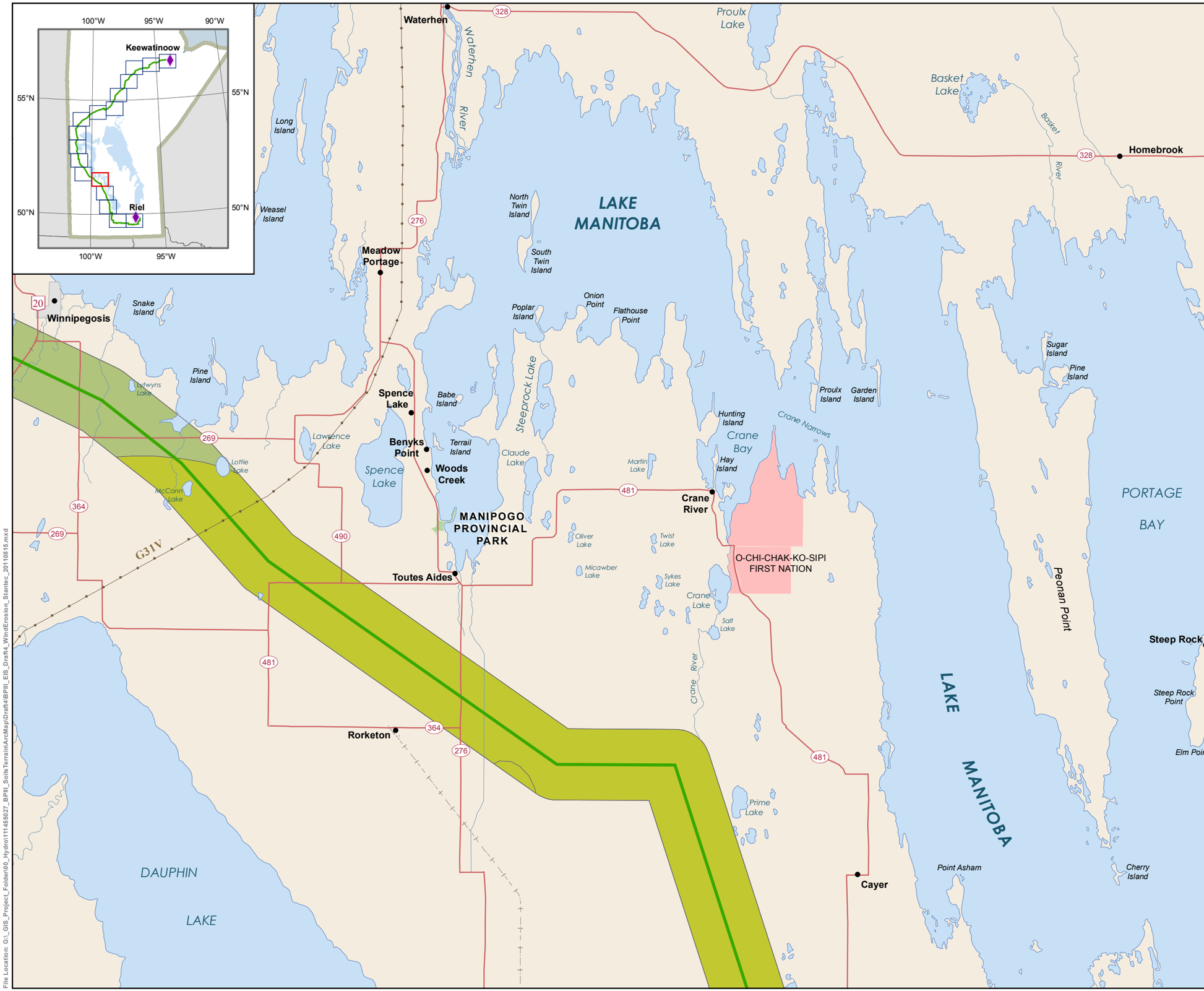

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Created By: Stantec

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

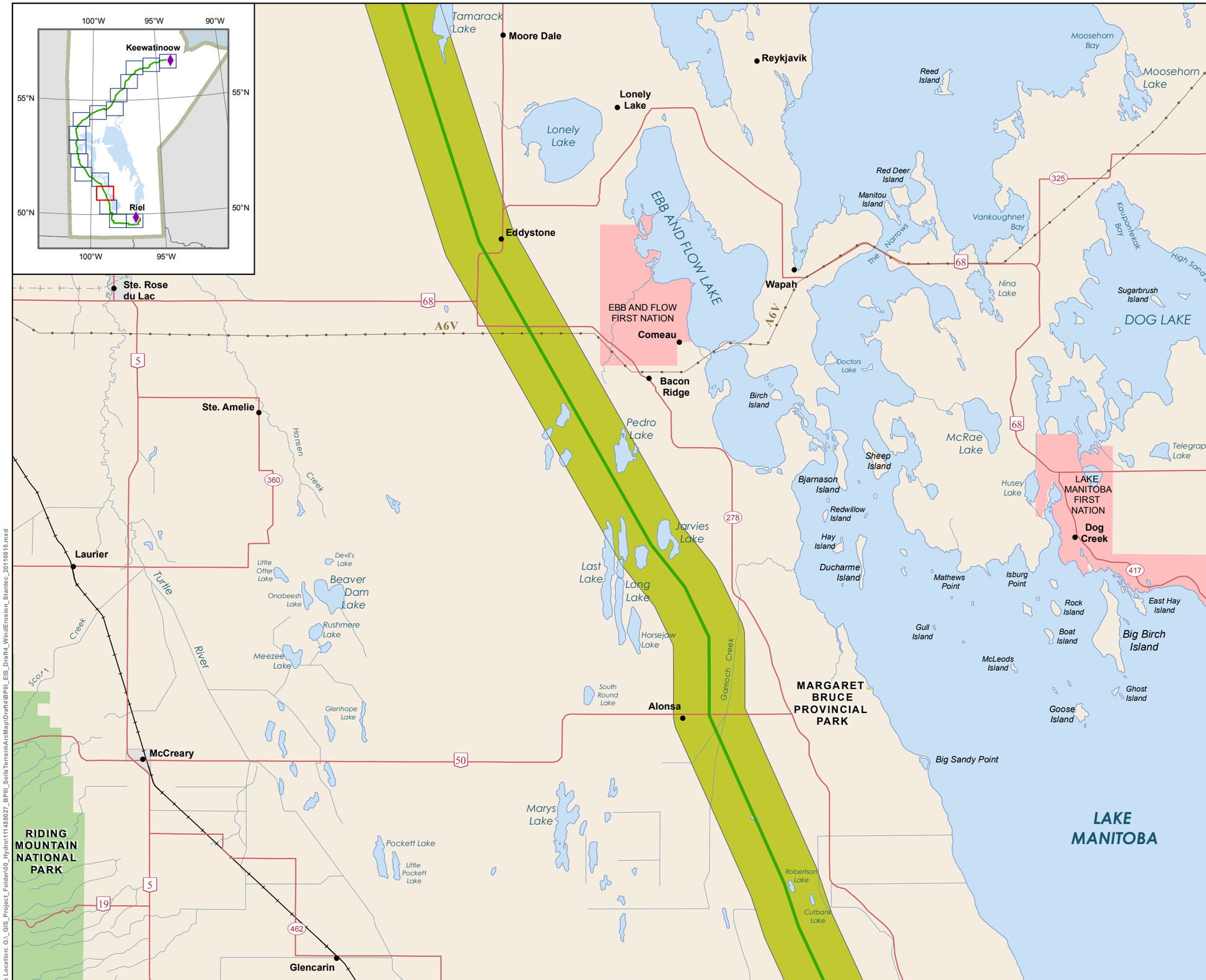
0 5 10 Kilometres
0 3 6 Miles

1:250,000

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 13



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

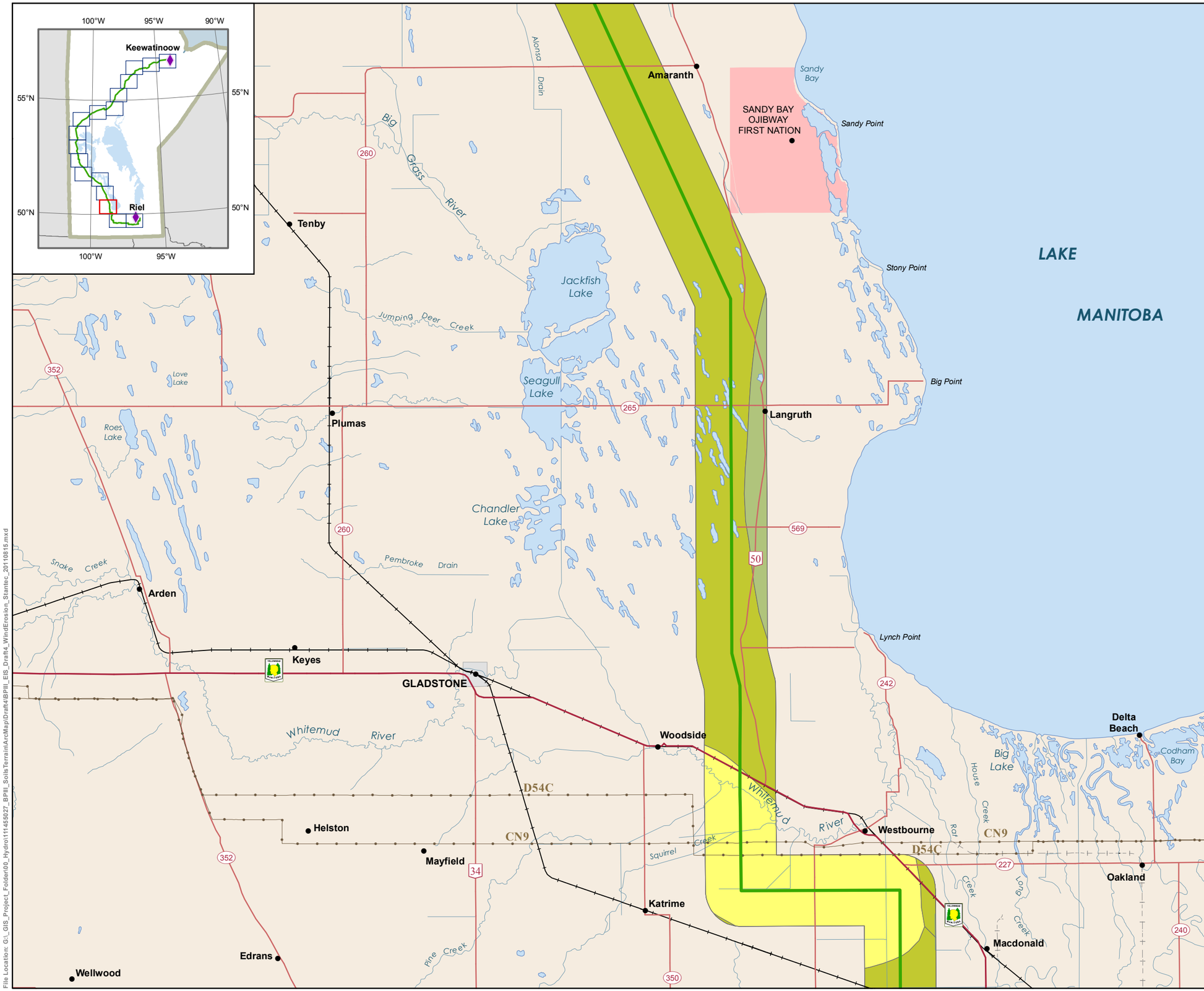
Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 14

Created By: Stantec

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd



Bipole III Transmission Project

Manitoba Hydro

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 15

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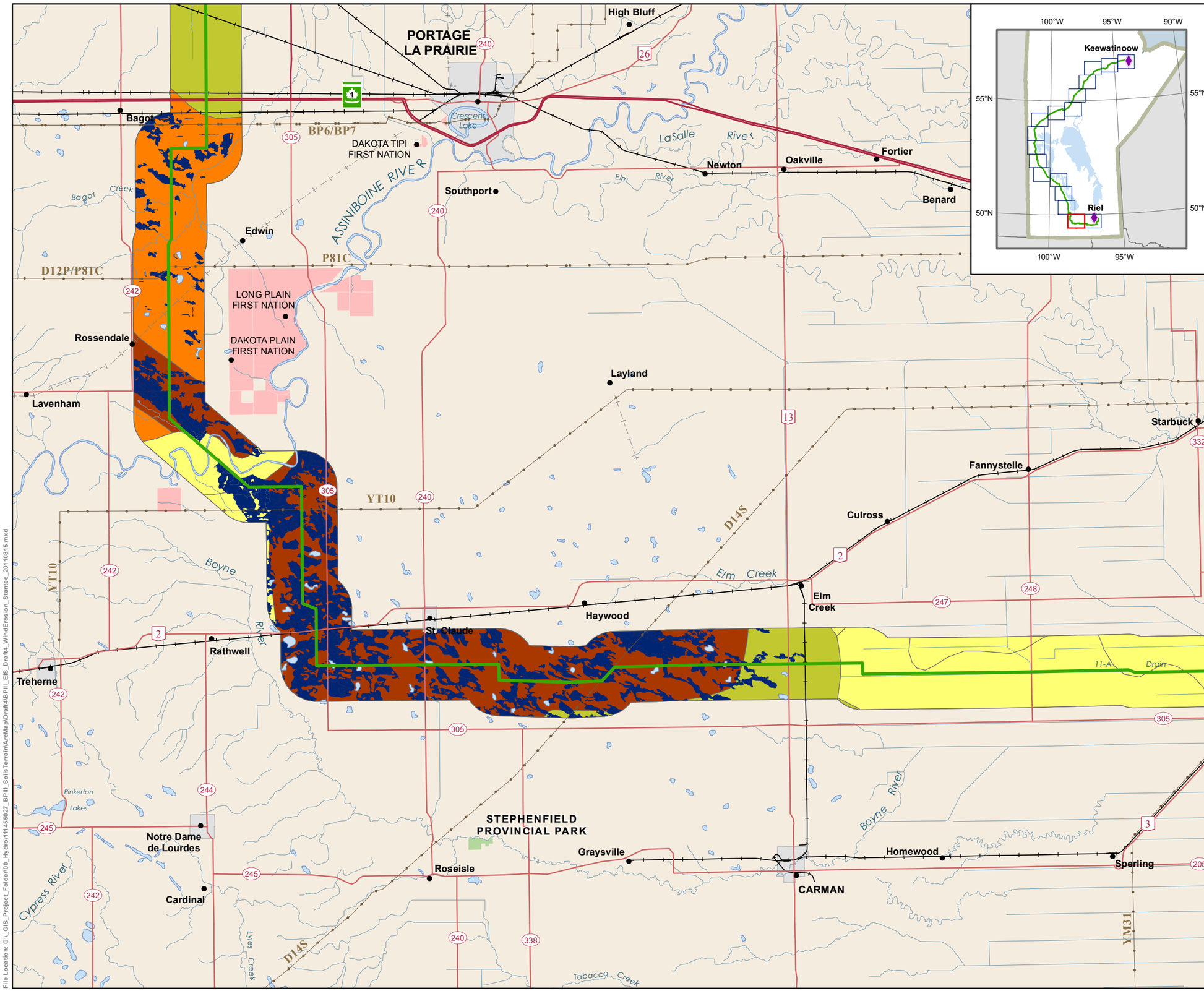

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Created By: Stantec

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

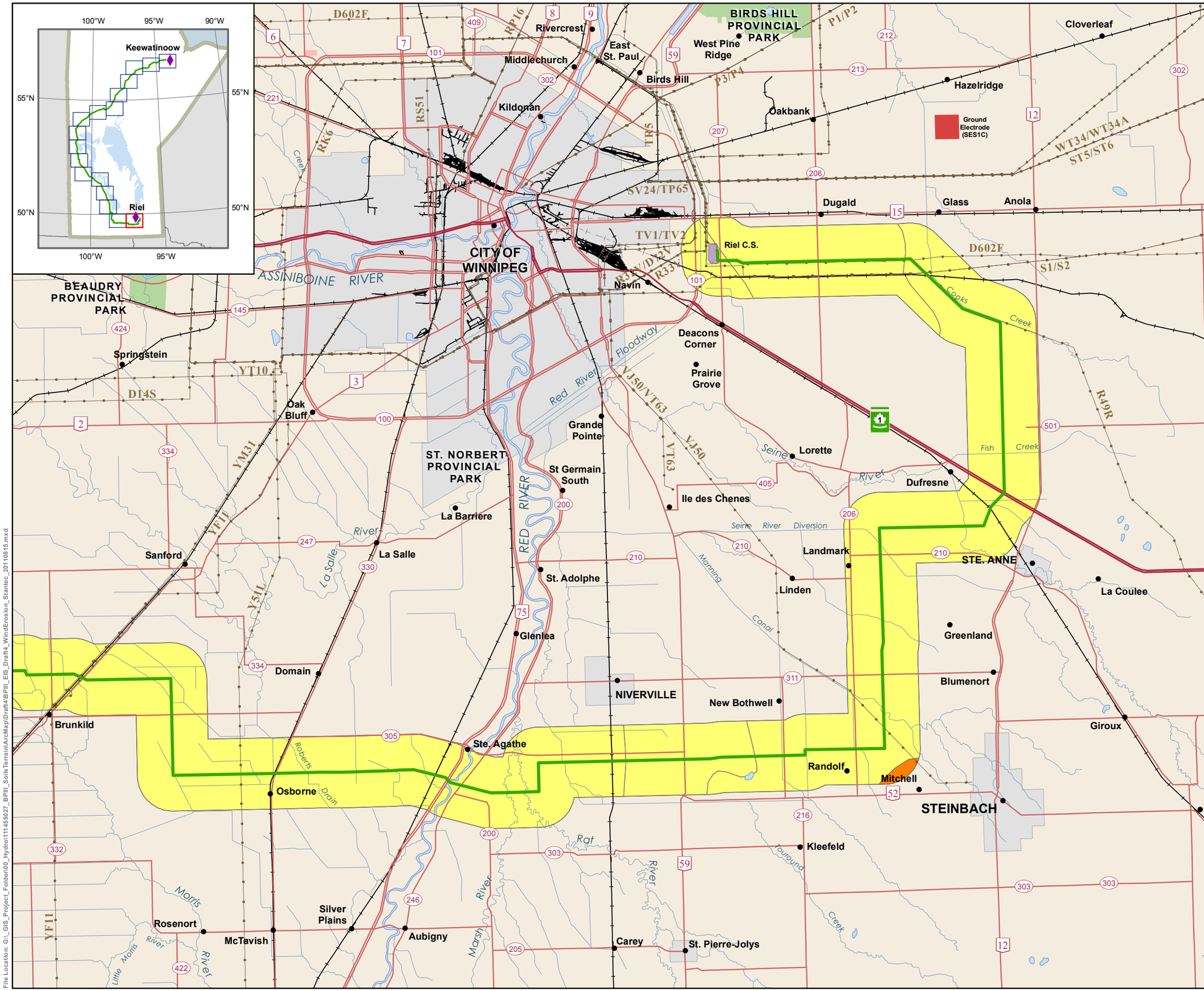
0 5 10 Kilometres
0 3 6 Miles

1:250,000

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 16



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

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

Infrastructure

- Transmission Line

Wind Erosion Risk

- Negligible
- Low
- Moderate
- High
- Severe
- Organic
- No Data
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Wind Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 700 - 17

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WindErosion_Stantec_20110815.mxd

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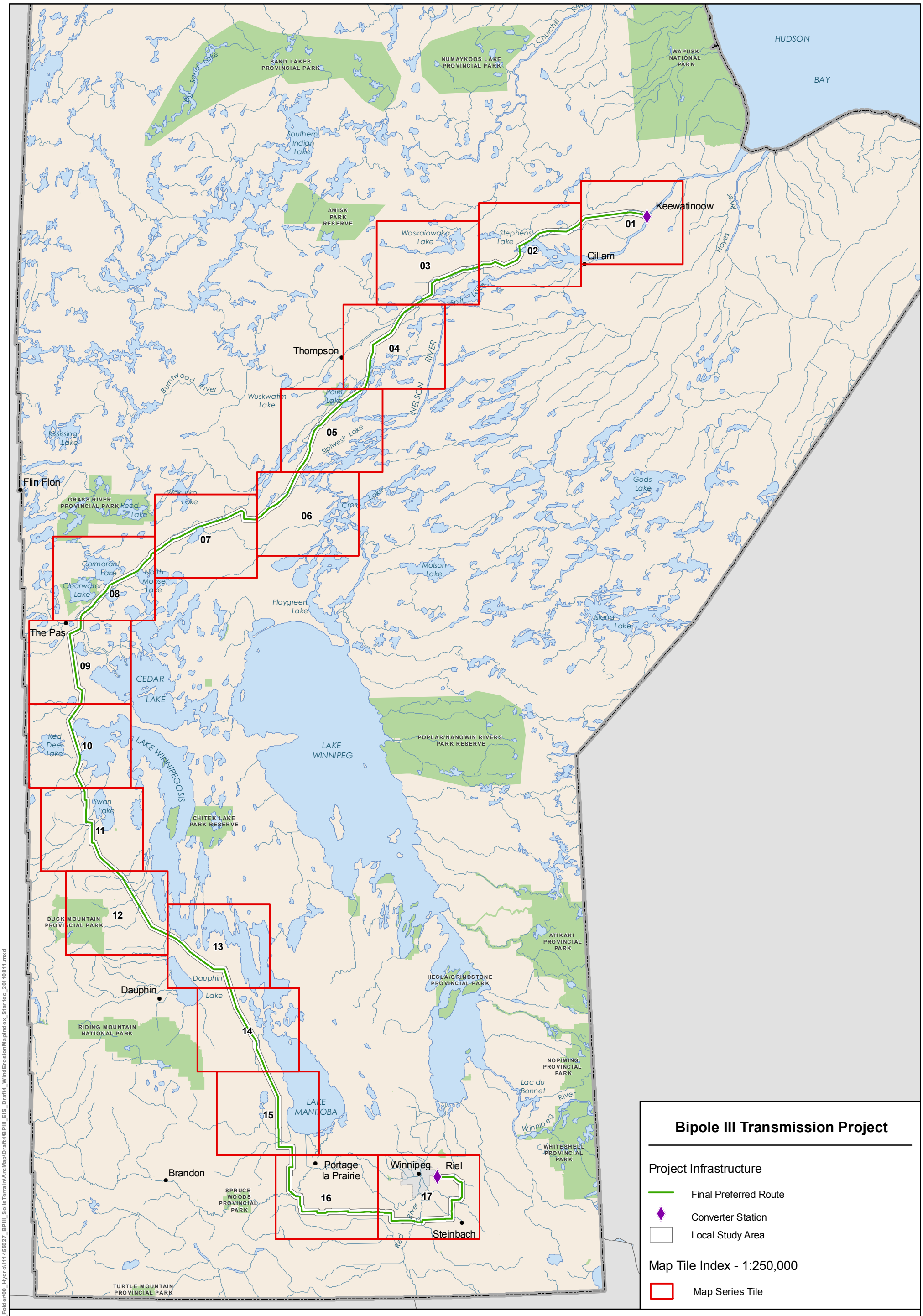

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Map Tile Index - 1:250,000

- Map Series Tile

Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB
Date Created: August 11, 2011

0 25 50 Kilometres
0 25 50 Miles

N

1:2,750,000

Index of Map Series

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map Series 800

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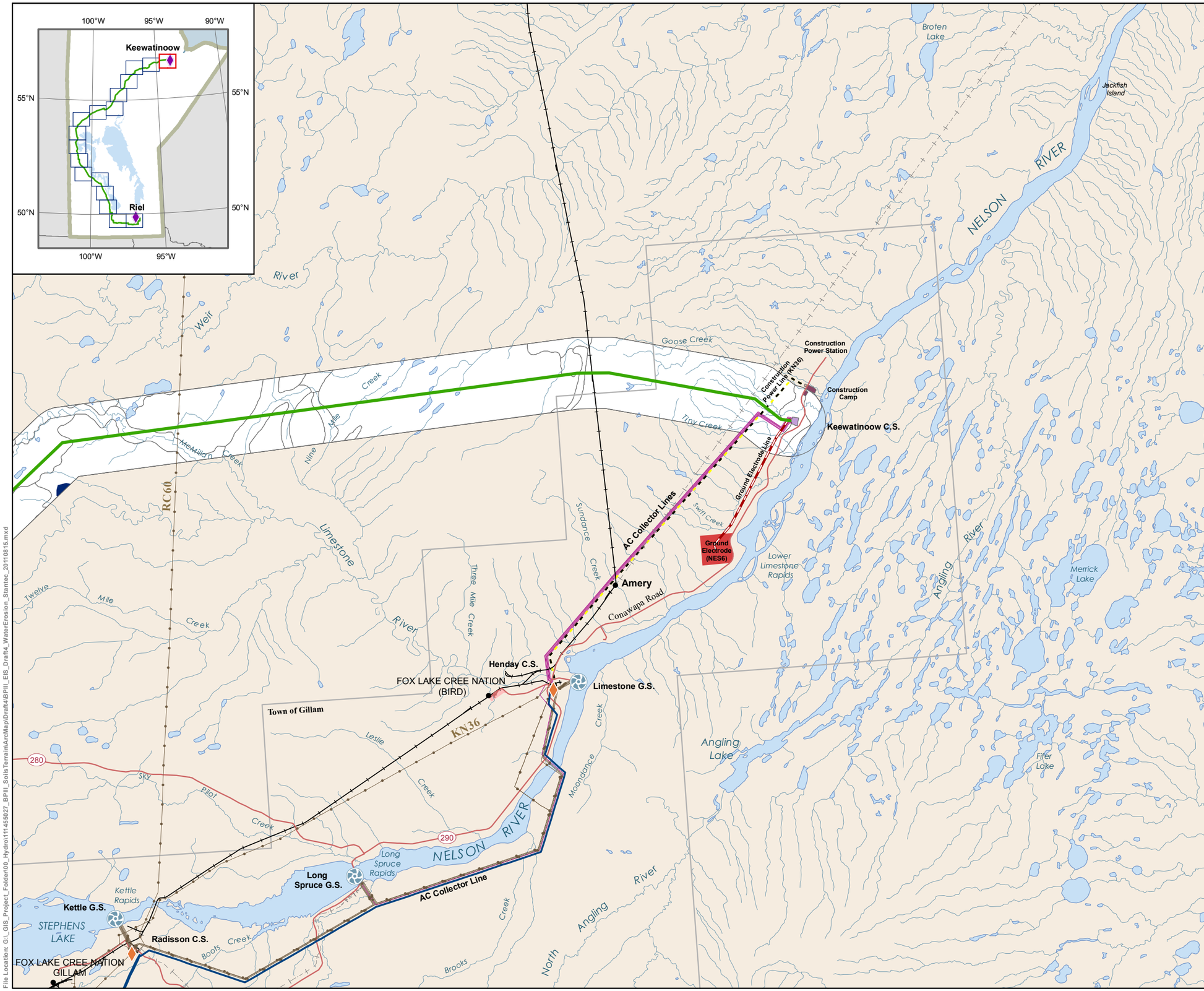

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Created By: Stantec

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 Site
- Construction Camp Site
- Local Study Area

Infrastructure

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

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

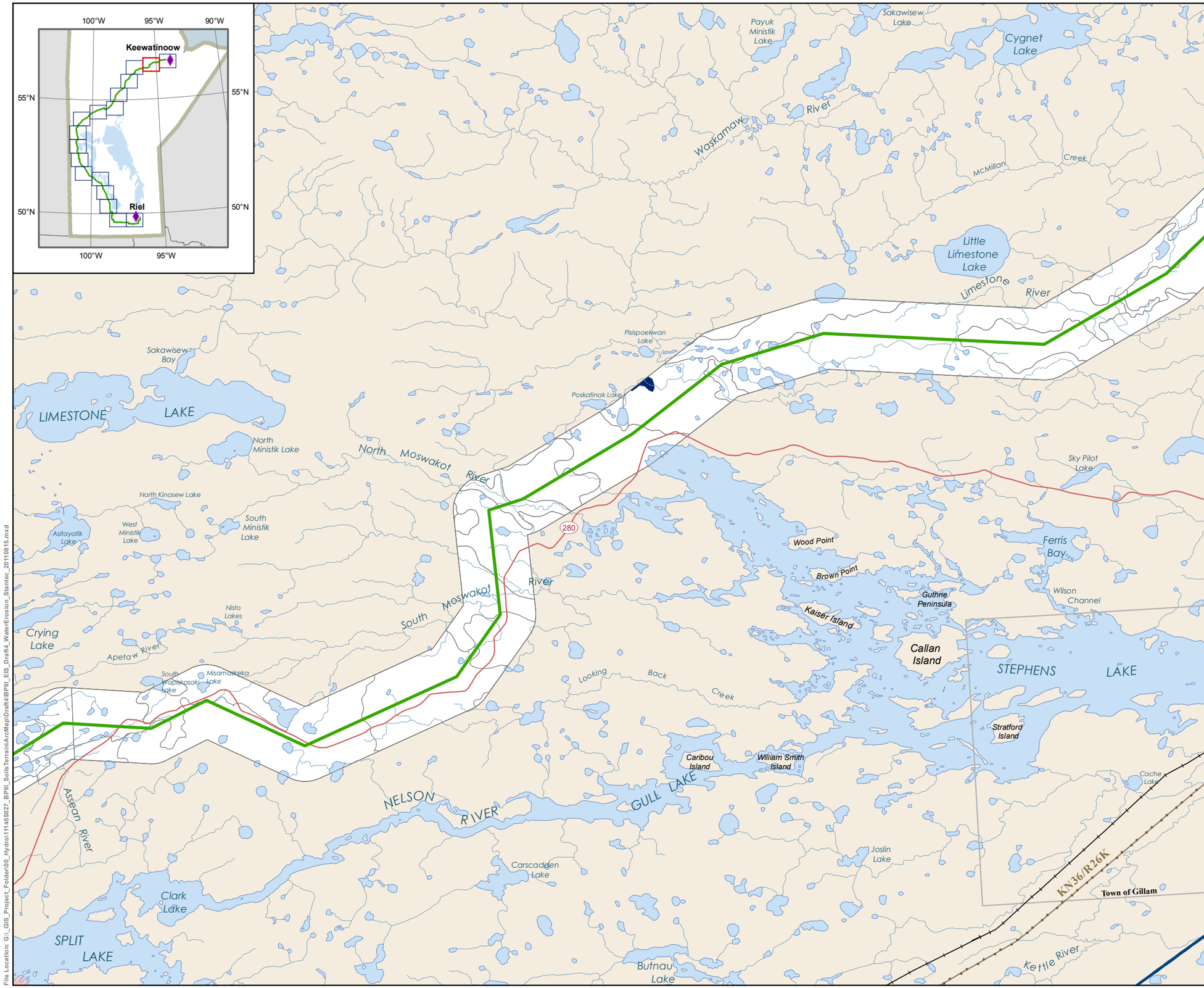
0 5 10 Kilometres
0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 1



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Bipole I and II
- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 2

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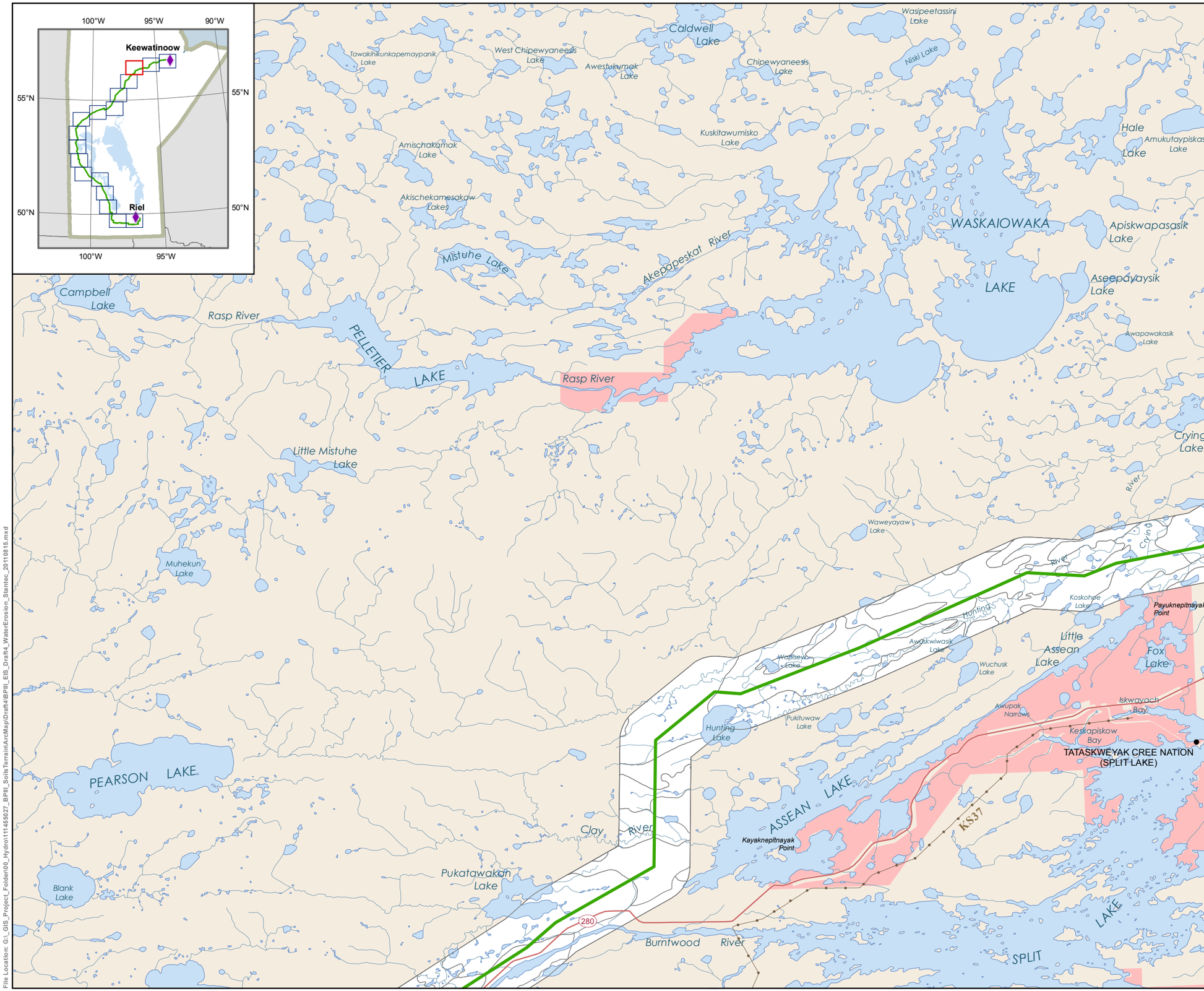

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 3

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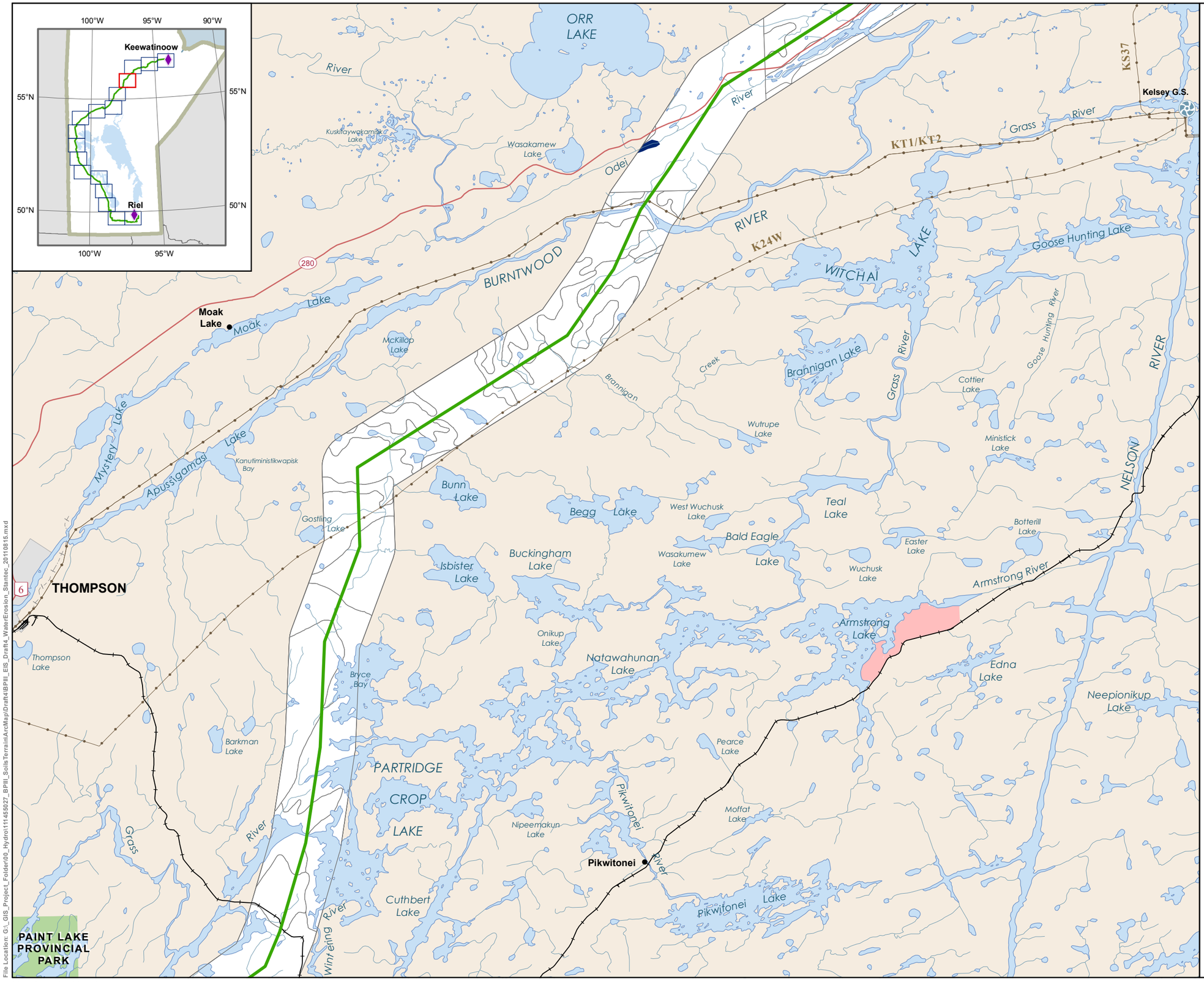

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Generating Station
- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres

0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 4

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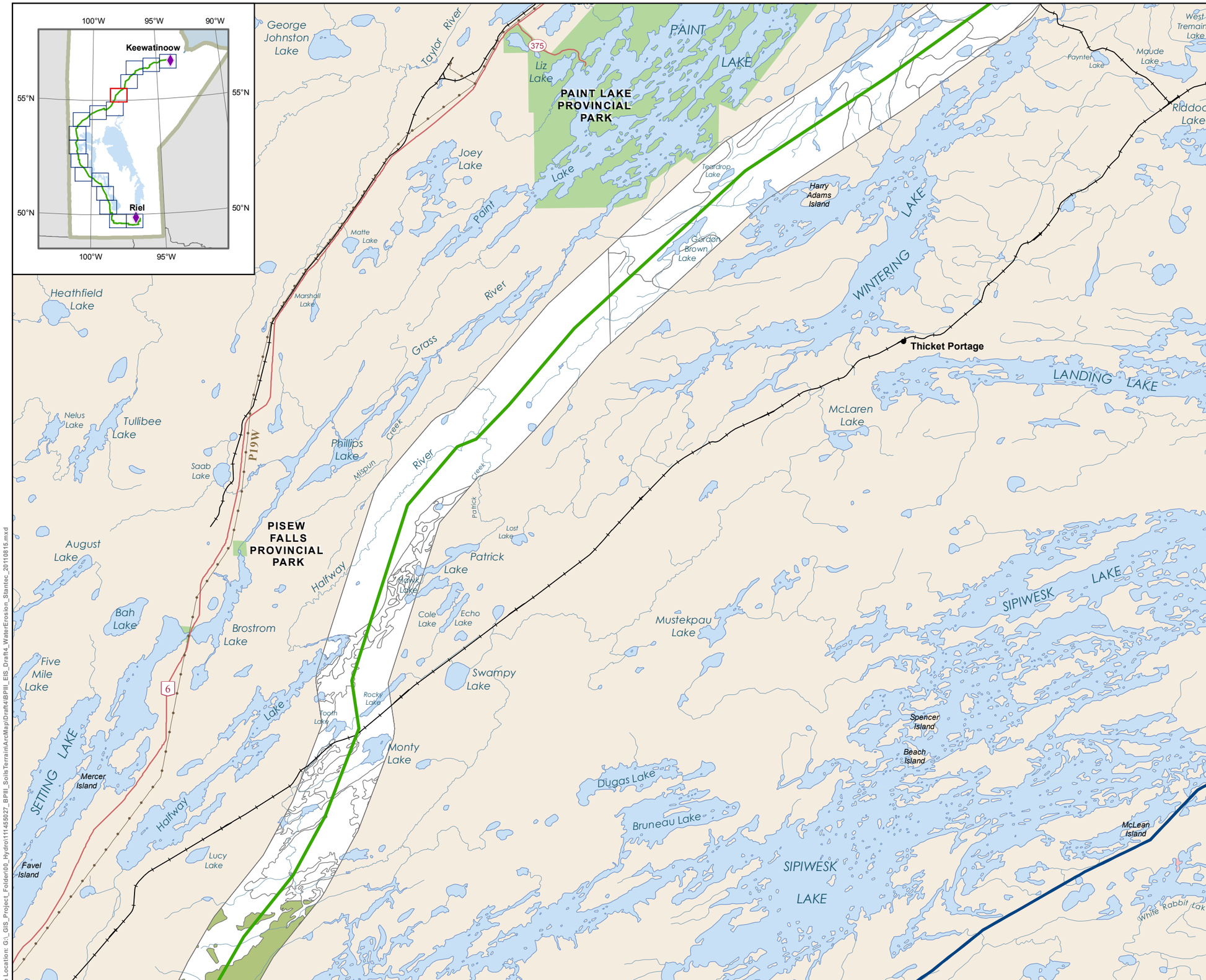

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Bipole I and II
- Transmission Line

Water Erosion Risk
- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase
- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 5

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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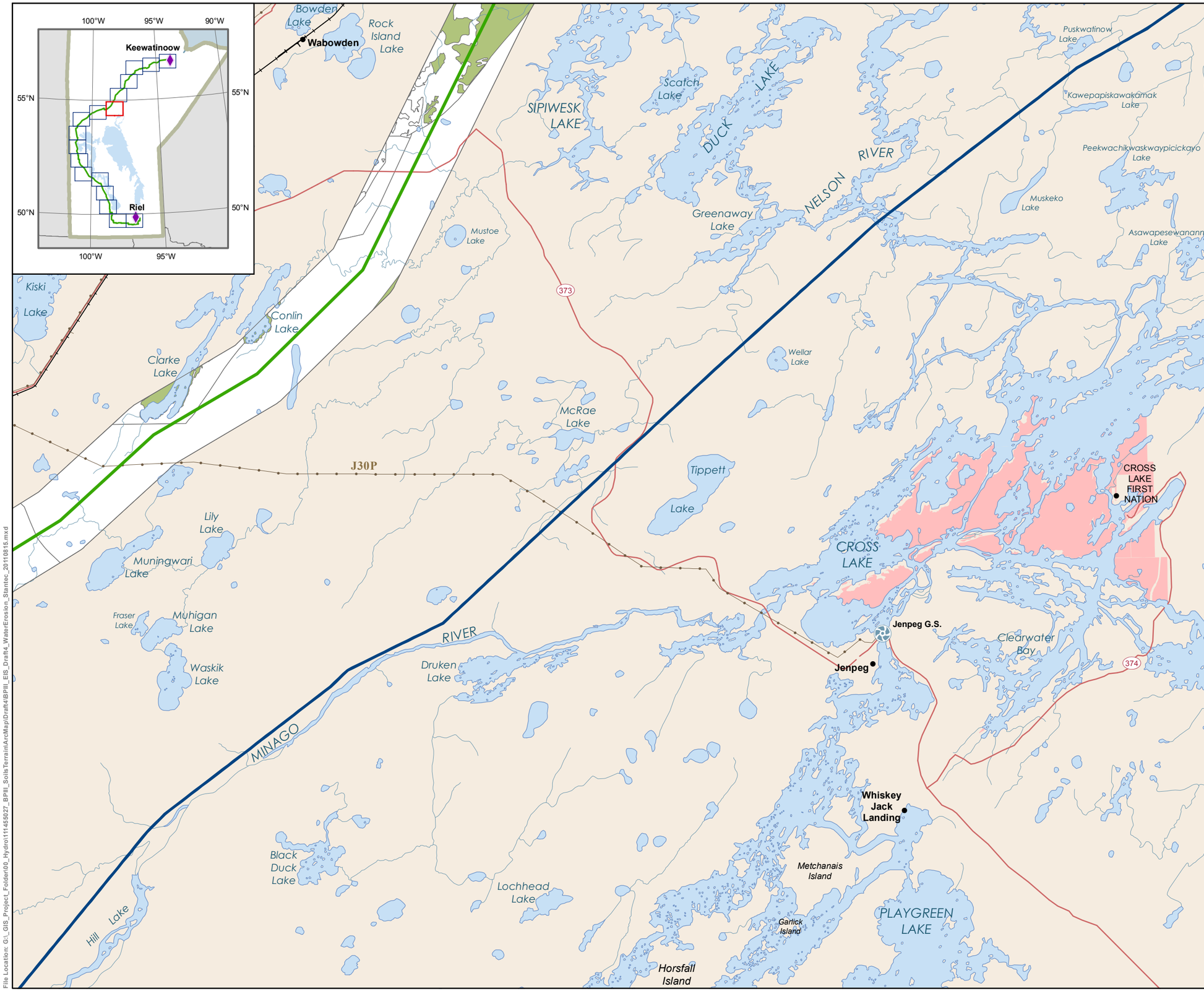

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Generating Station
- Bipole I and II
- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 6

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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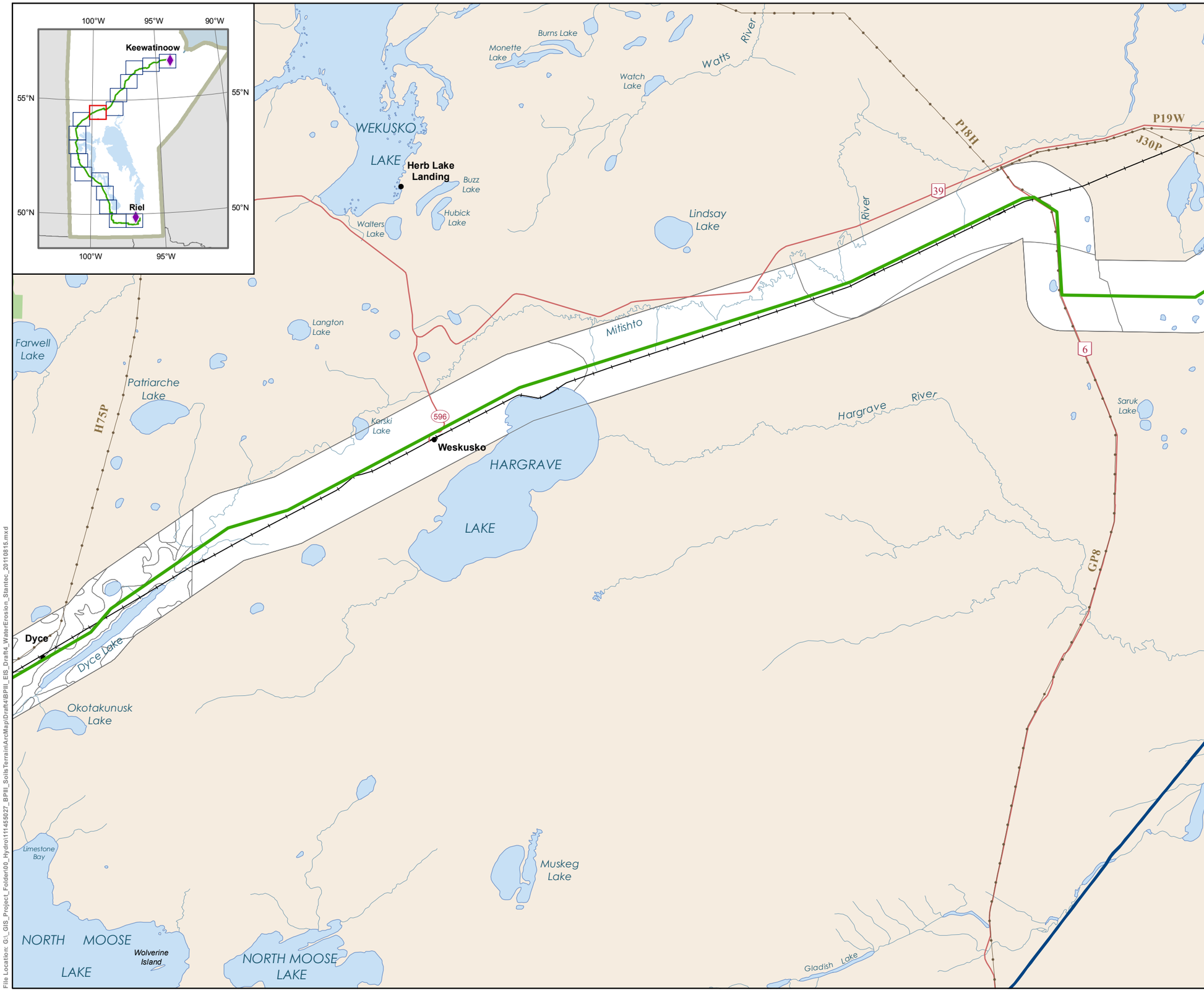

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Bipole I and II
- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 7

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMapDraft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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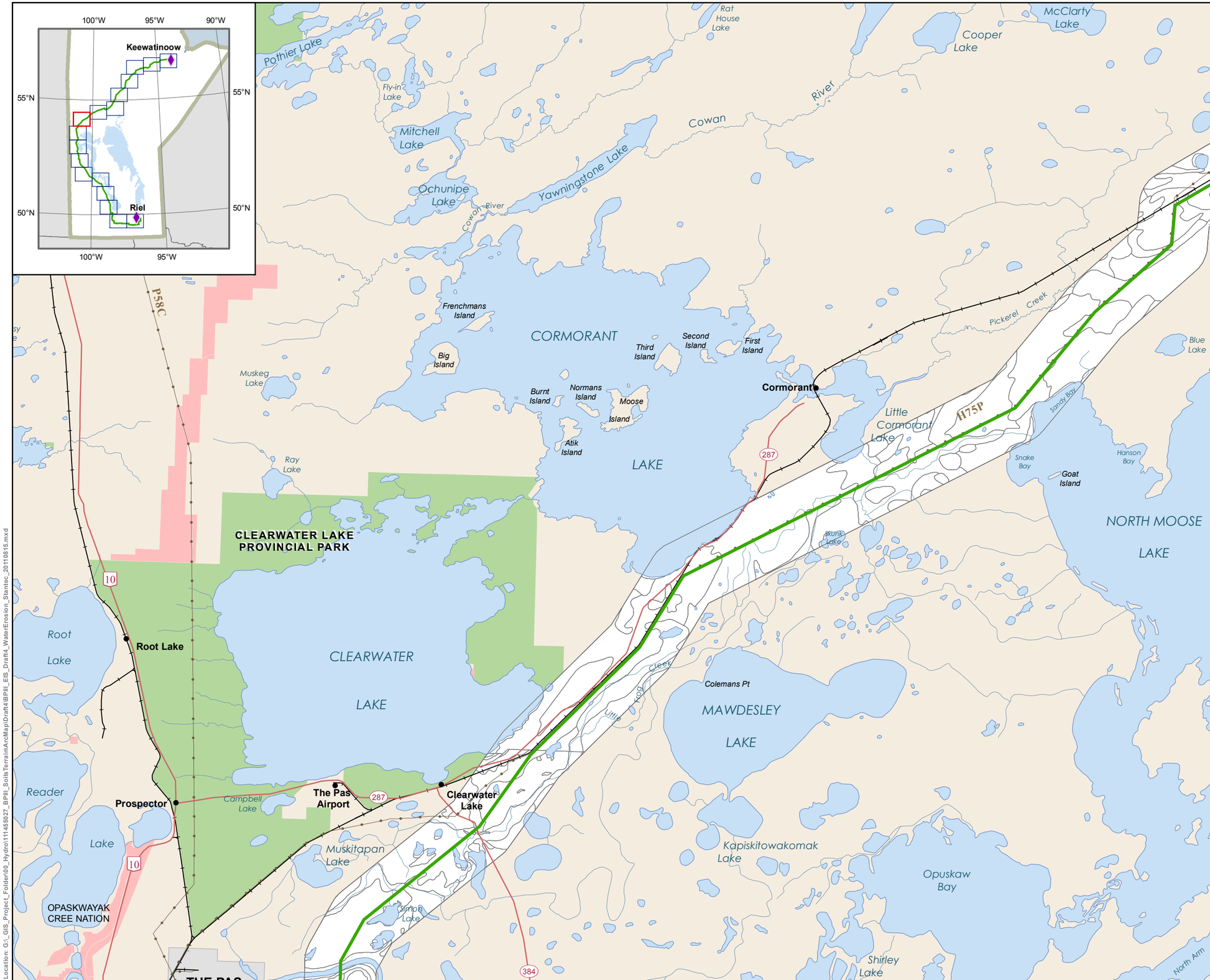

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 8

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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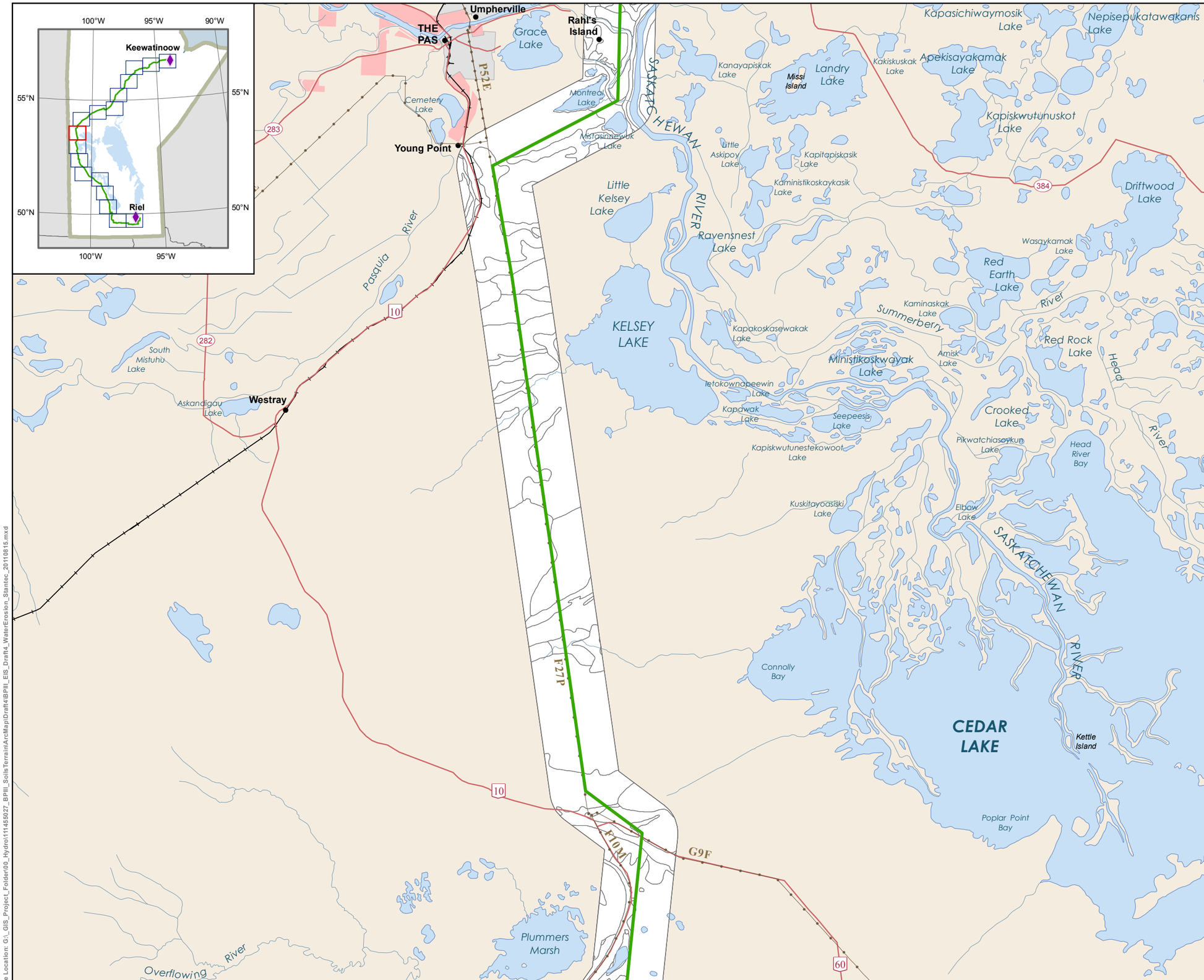

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Created By: Stantec

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

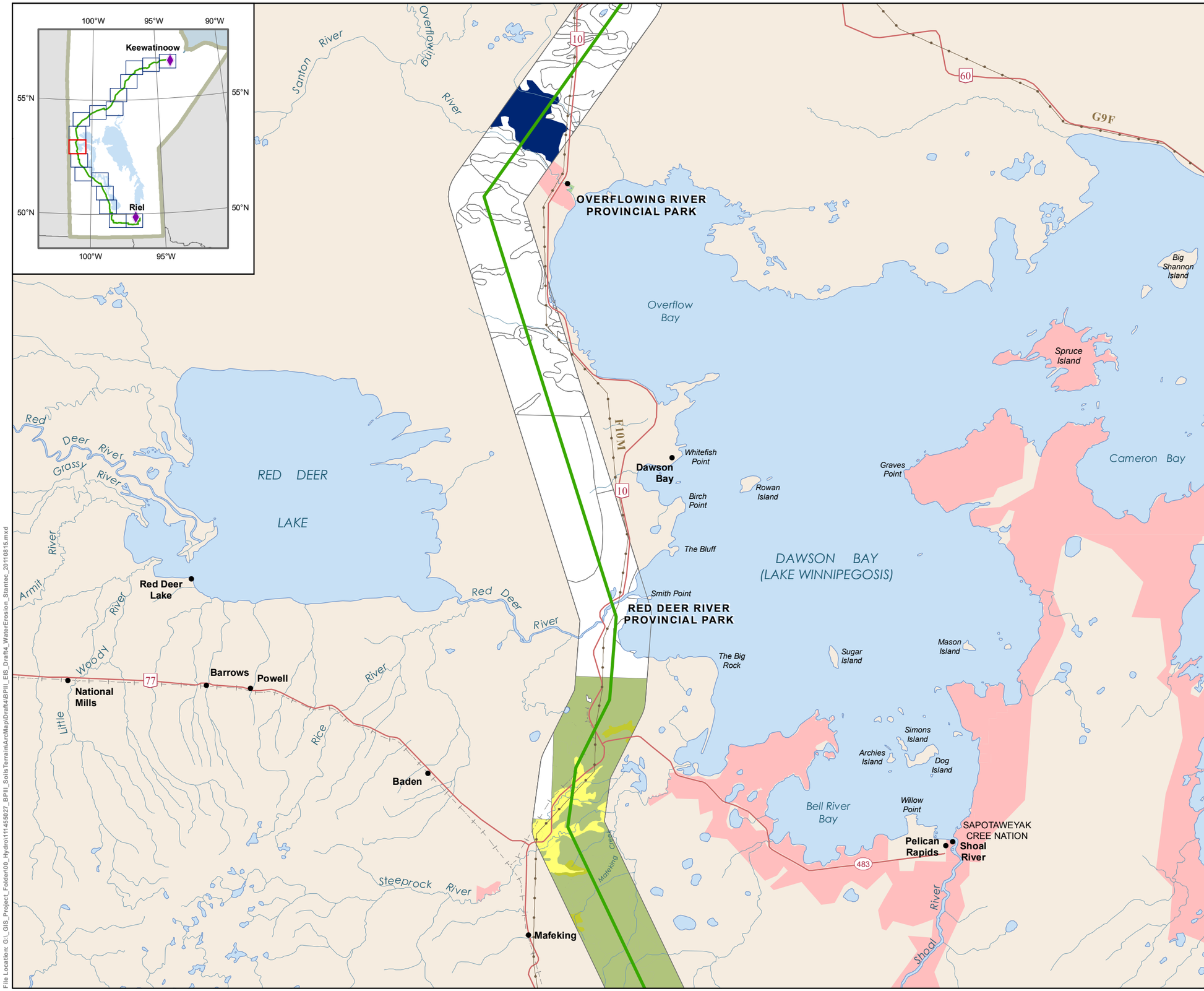
0 5 10 Kilometres
0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 9



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 10

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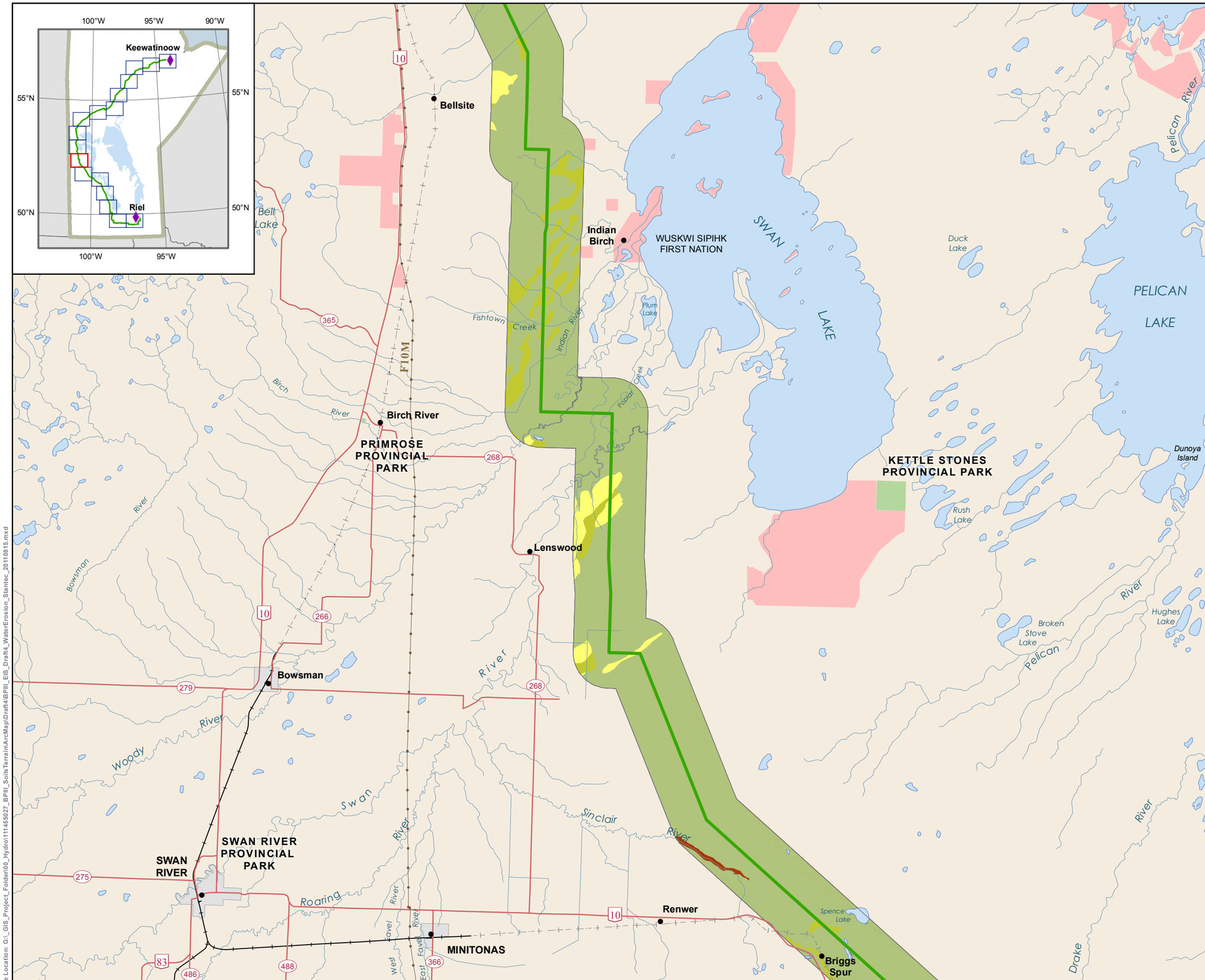

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 11

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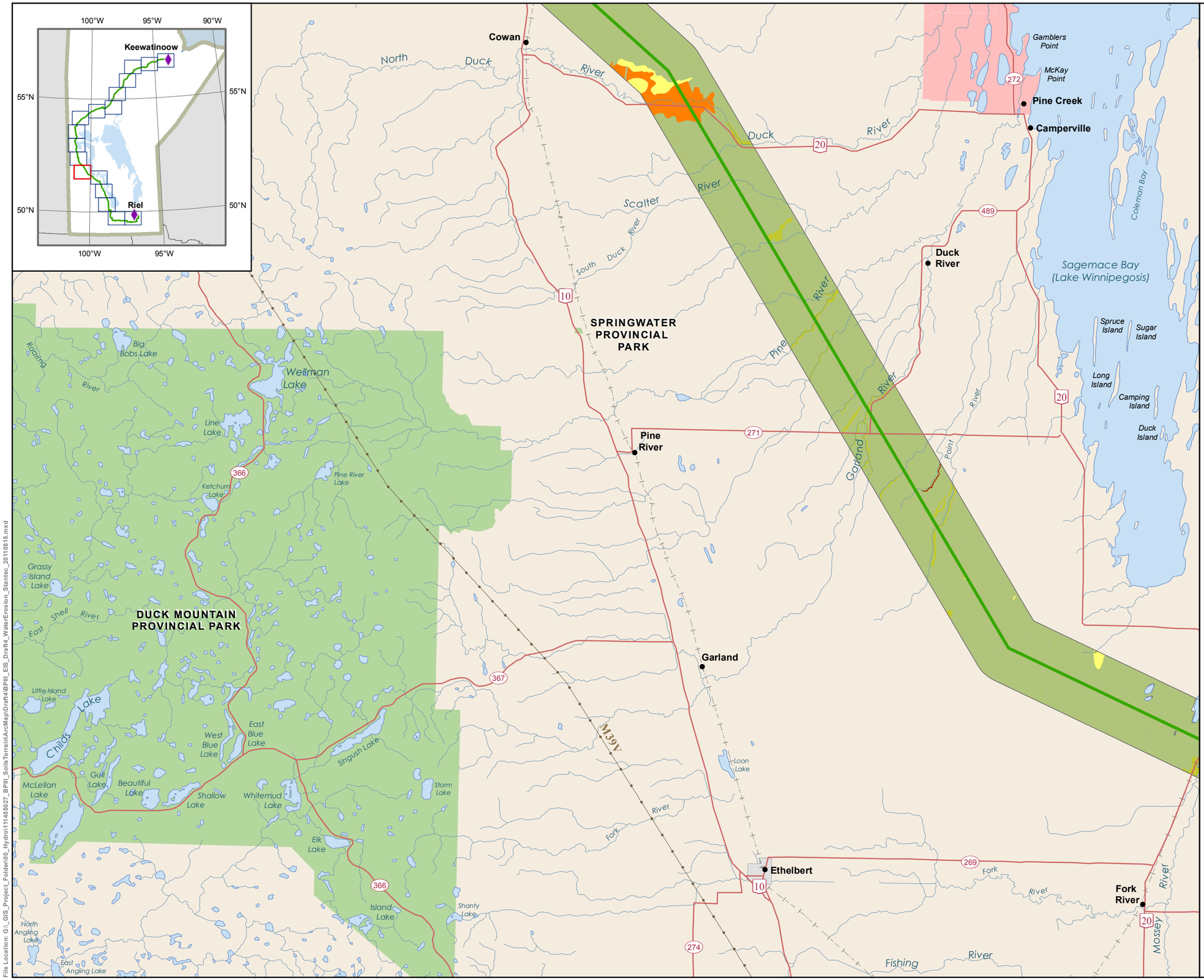

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 12

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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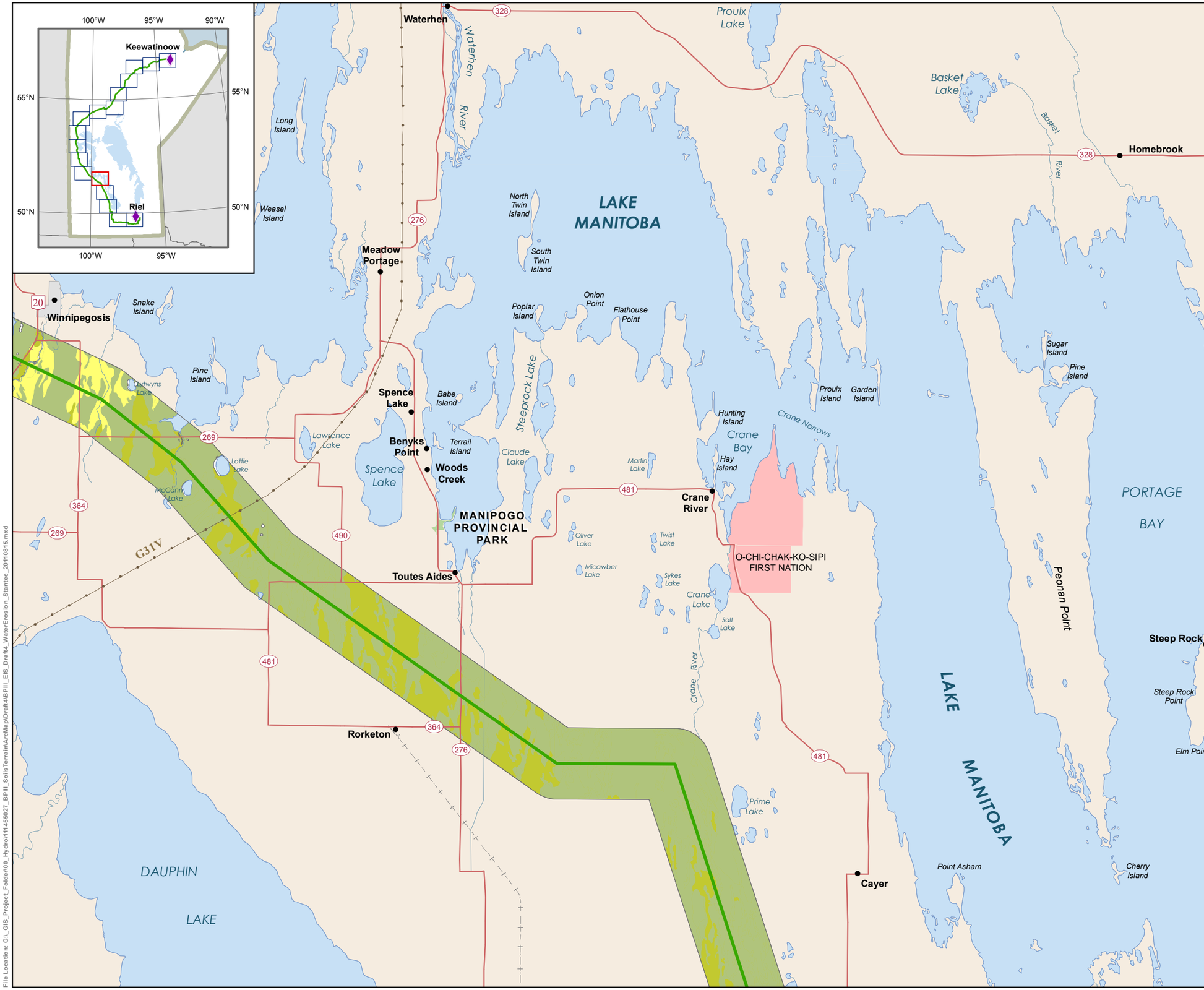

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 13

Created By: Stantec

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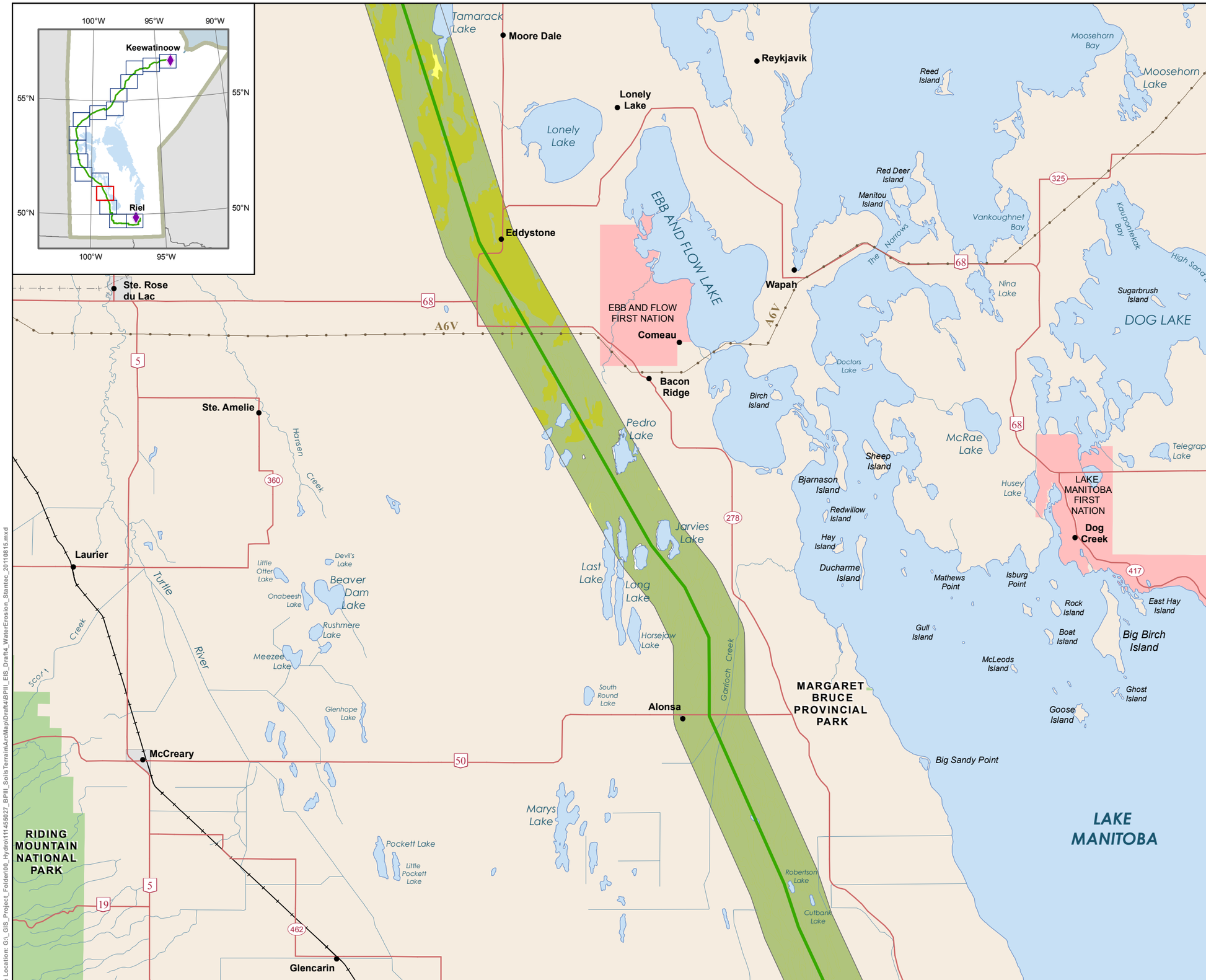


Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

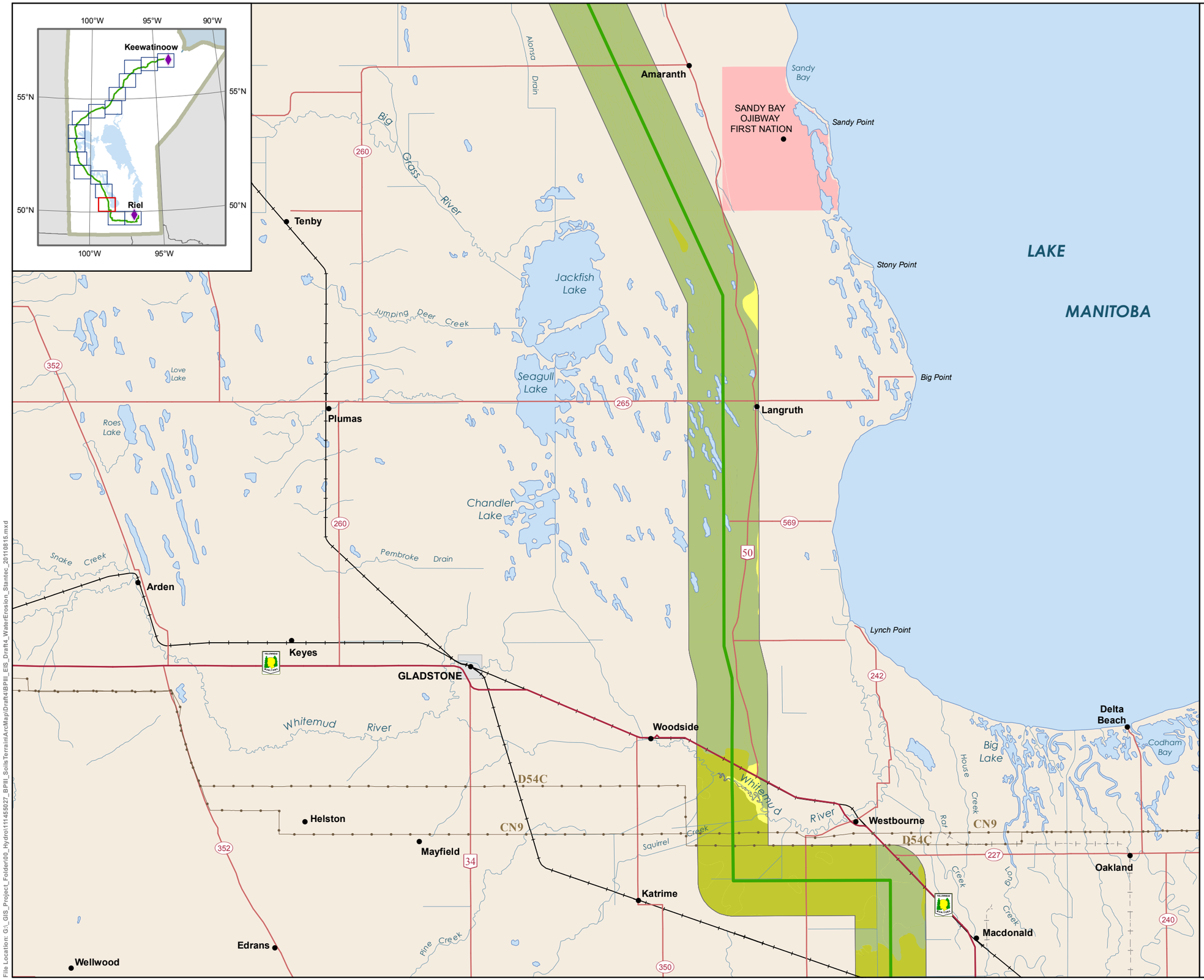
Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 14

Created By: Stantec

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd



Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 15

File Location: G:_GIS_Project_Folder\00_Hydro\111145027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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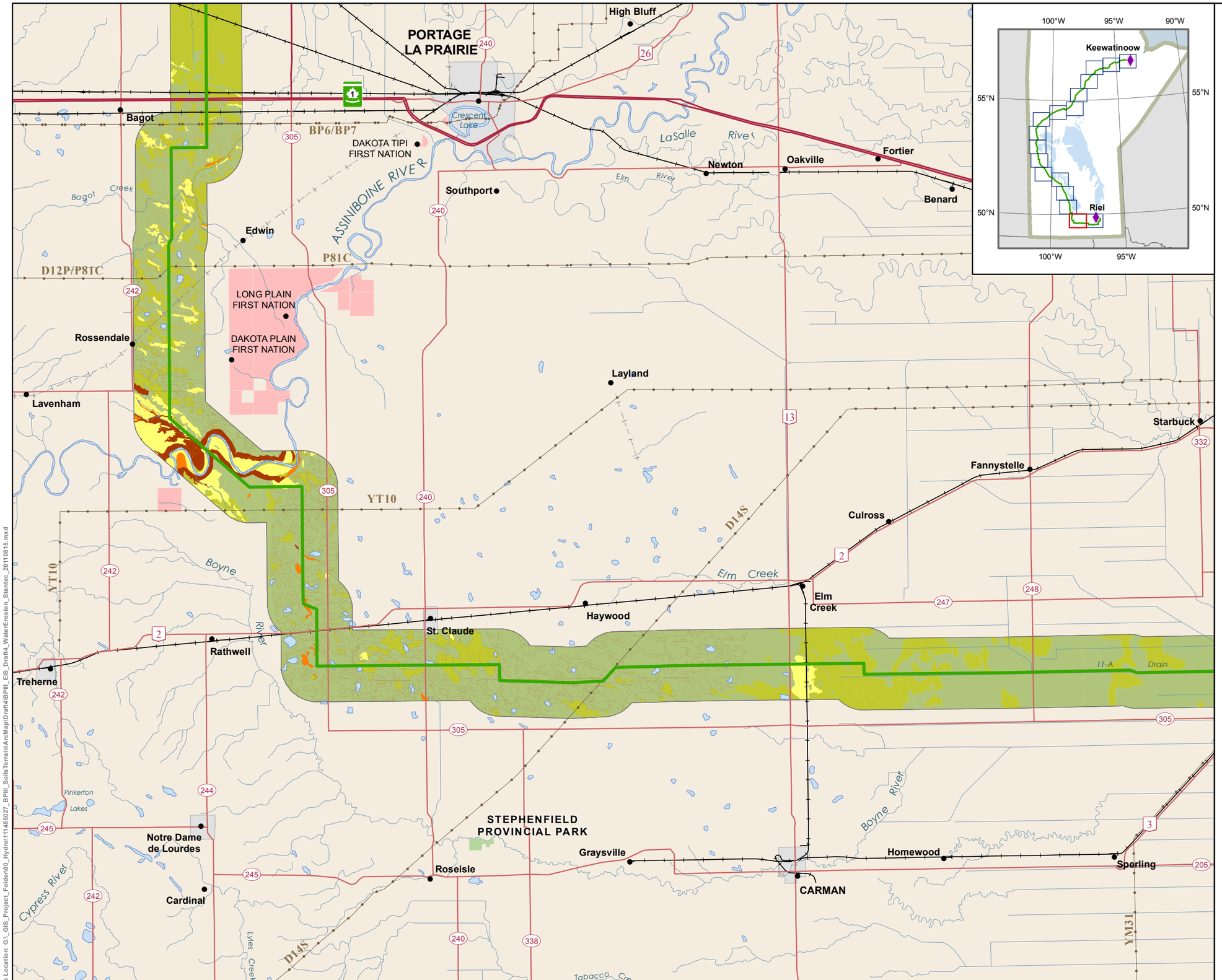

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

0 5 10 Kilometres
0 3 6 Miles

1:250,000

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 16

File Location: G:_GIS_Project_Folder\00_Hydro\111455027_BPIII_SoilsTerrainArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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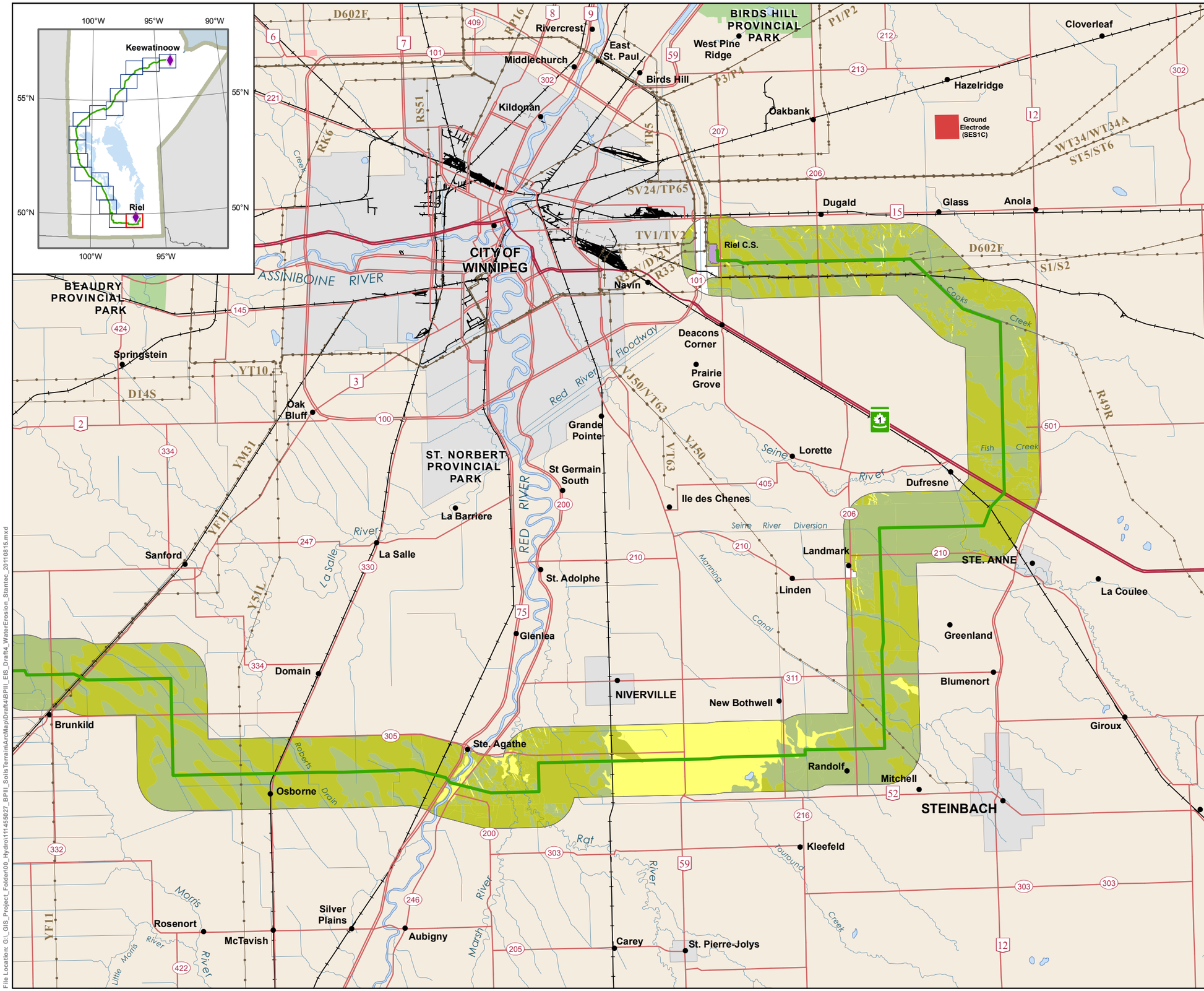

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

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

Infrastructure

- Transmission Line

Water Erosion Risk

- Negligible (<6 tonnes/hectare/year)
- Low (6 - 11 tonnes/hectare/year)
- Moderate (11 - 22 tonnes/hectare/year)
- High (22 - 33 tonnes/hectare/year)
- Severe (>33 tonnes/hectare/year)
- Unrated
- Highly Erodible Soils

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Water Erosion Prone Soils

Draft: For Discussion Purposes Only

Map 800 - 17

File Location: G:_GIS_Project_Folder\00_Hydro\111145027_BPIII_SoilsTerrain\ArcMap\Draft4\BPIII_EIS_Draft4_WaterErosion_Stantec_20110815.mxd

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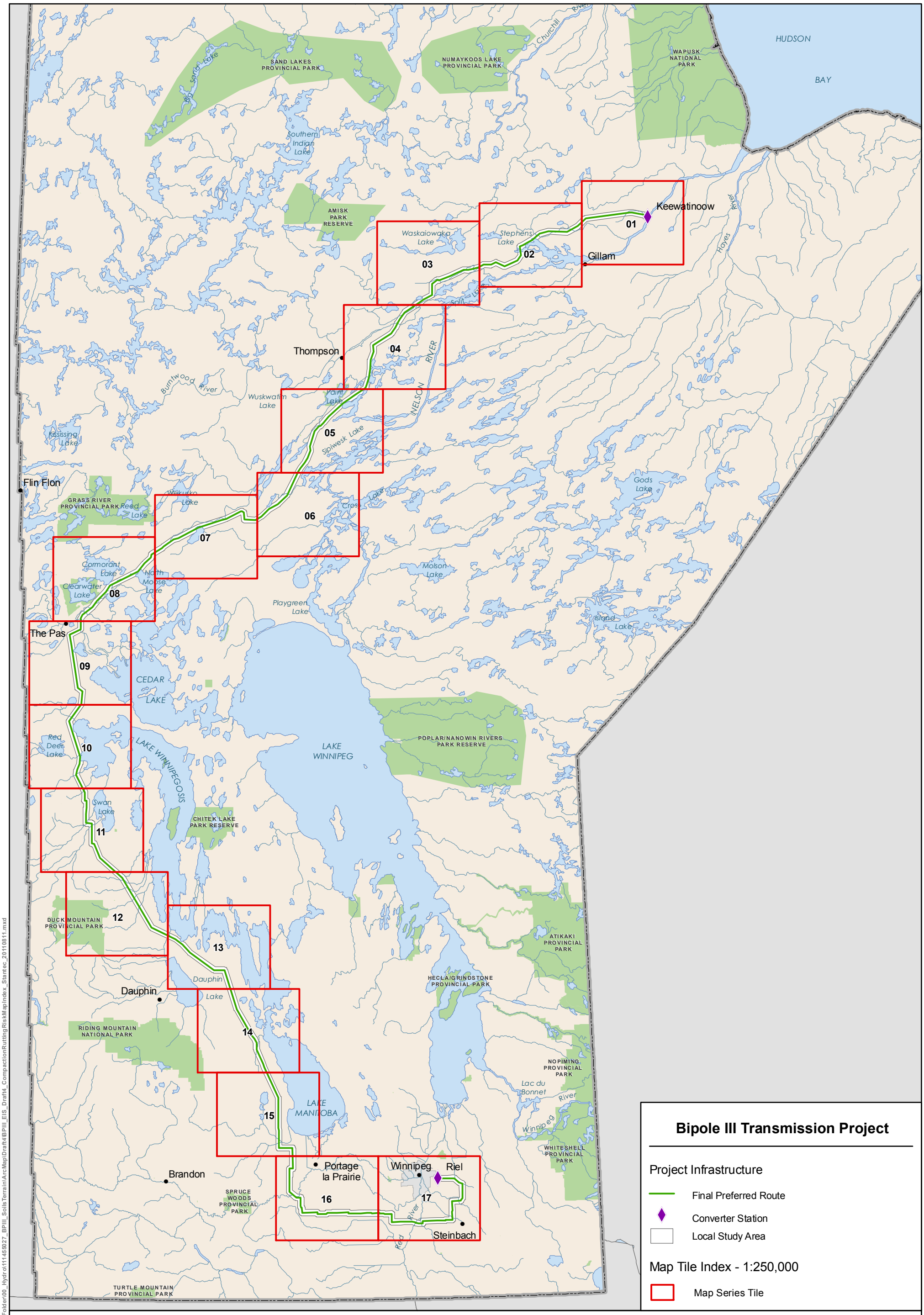

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station
- Local Study Area

Map Tile Index - 1:250,000

- Map Series Tile

Manitoba Hydro

Coordinate System: UTM Zone 14N NAD83
Data Source: MB Hydro, MMM, ProvMB
Date Created: August 11, 2011

0 25 50 Kilometres
0 25 50 Miles

N

1:2,750,000

Index of Map Series

Compaction / Rutting Risk

Draft: For Discussion Purposes Only

Map Series 900

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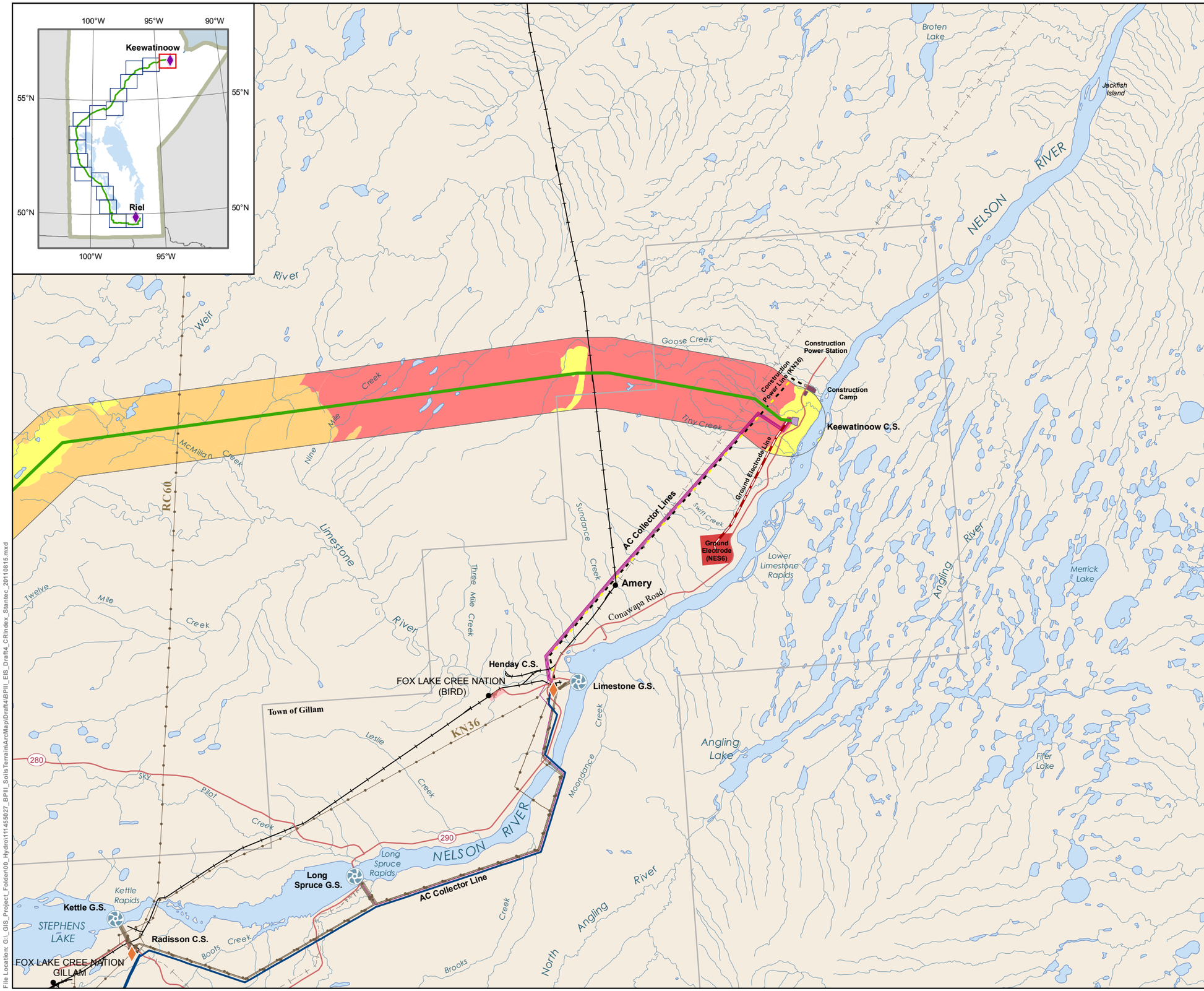

Manitoba Hydro

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 Site
- Construction Camp Site
- Local Study Area

Infrastructure

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

Compaction/Rutting (CR) Index

- Low Risk
- Moderate Risk
- High Risk
- No Data

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Compaction/Rutting Risk

Draft: For Discussion Purposes Only

Map 900 - 1

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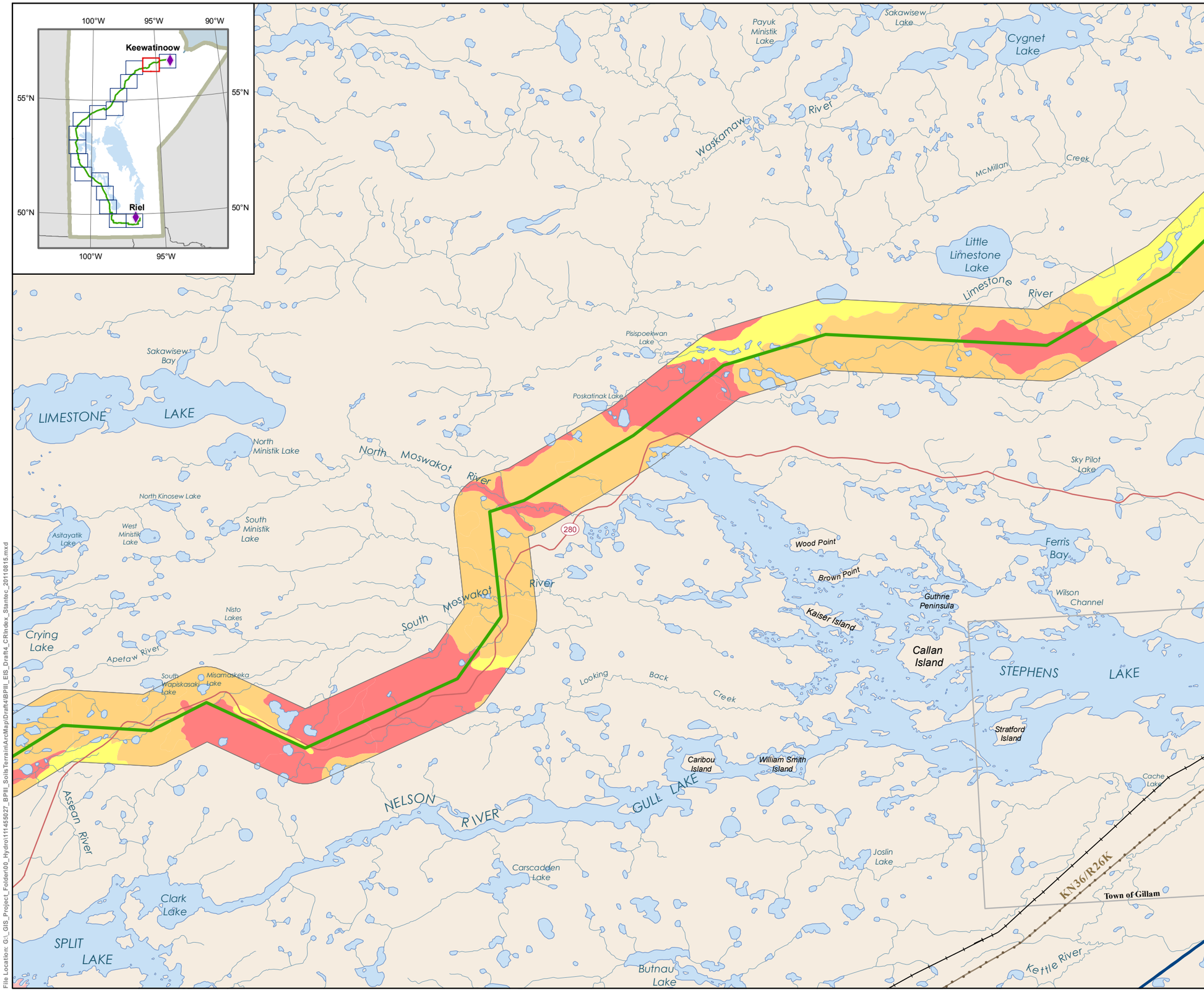

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Local Study Area

Infrastructure

- Bipole I and II
- Transmission Line

Compaction/Rutting (CR) Index

- Low Risk
- Moderate Risk
- High Risk
- No Data

Landbase

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

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Compaction/Rutting Risk

Draft: For Discussion Purposes Only

Map 900 - 2

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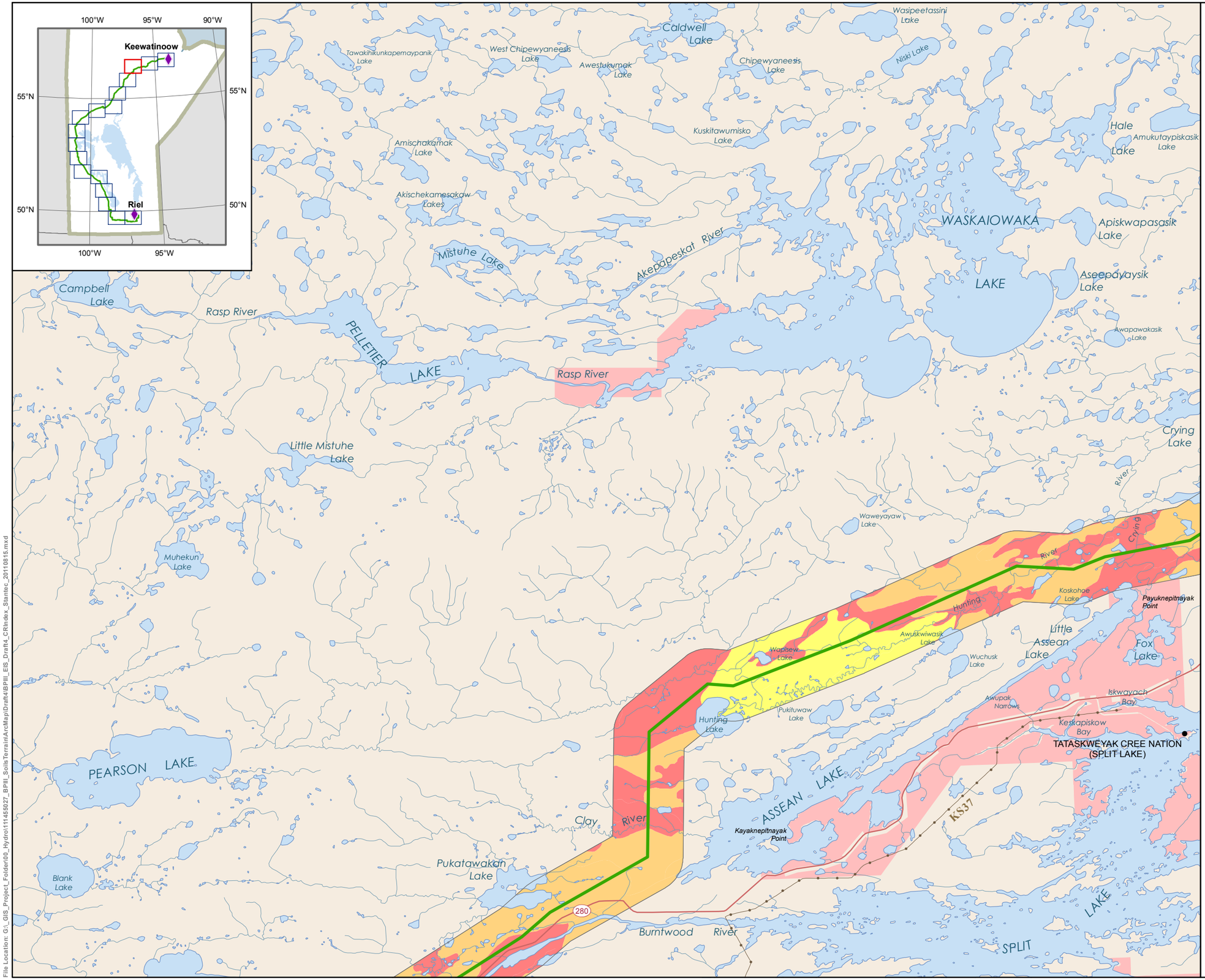

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Created By: Stantec

Manitoba Hydro

Bipole III Transmission Project

Project Infrastructure
- Final Preferred Route
- Local Study Area

Infrastructure
- Transmission Line

Compaction/Rutting (CR) Index
- Low Risk
- Moderate Risk
- High Risk
- No Data

Landbase
- Community
- First Nation
- National/Provincial Park

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, MMM, Stantec, ProvMB, NRCAN
Date Created: August 15, 2011

N

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

Compaction/Rutting Risk

Draft: For Discussion Purposes Only

Map 900 - 3