

Table 5A-3 Alternative Corridor Model Criteria Definitions

Criteria	Description	Source
<b>ENGINEERING</b>		
<b>Linear Infrastructure</b>		
No Linear Infrastructure	All areas not covered by one of the criteria below	N/A
Unused ROW (Manitoba Hydro owned)	Manitoba Hydro ROW that has room to accommodate the proposed line	Manitoba Hydro
Parallel Roads ROW	Buffers were placed on road, Provincial Highway, Existing Transmission Line	Natural Resources Canada - National Road Network
Parallel Provincial Highways ROW	(<300 kV), Pipeline and Railway Rights-of-Way. Areas within these buffers would	
Parallel Existing Transmission Lines (<300kV)	constitute paralleling	Manitoba Hydro
Parallel Oil/Gas Transmission Pipeline		Manitoba Hydro
		Enbridge
Parallel Railway ROW		Natural Resources Canada - National Rail Network
>= 300 kV Transmission Line and Within Separation Buffer	A 10 km buffer (separation buffer) was placed on all transmission lines >= 300 kV	Manitoba Hydro
Within Road, Railroad, or Utility ROW	Existing Road, Railway and utility ROWs	Derived
<b>Spannable Waterbodies</b>		
No Waterbody	All areas not covered by one of the criteria below	Prov MB - Topo 20k
Spannable Waterbody (Standard Structures)	All waterbodies less than 300 m across	
<b>Geotechnical Considerations</b>		
Rock	Land cover class – Rock	Prov MB - Land Cover Classification
No Geotechnical Considerations	All areas not covered by one of the other criteria	N/A
100-year Floodplain	Areas within the 100-year floodplain	Prov MB - Conservation and Water Stewardship
Wetlands/Peatlands	Land cover class – Wetland/Peatland	Prov MB - Land Cover Classification
<b>Mining Operations/Quarries</b>		
No Mining Operations	All areas not covered by one of the criteria below	N/A
Abandoned/Inactive Mines (e.g., Aggregate Piles, Pits)	All areas where an abandoned or inactive mine is present	Prov MB - Mines Branch
Mine-owned Land	All parcels that are mine-owned	Prov MB - Mines Branch
<b>Slope</b>		
Slope 0 - 15%	Areas with a slope less than 15%	Prov MB - Soils
Slope 15 - 30%	Areas with a slope between 15 to 30%	
Slope > 30%	Areas with a slope greater than 30%	
<b>Proximity to Future Wind Farms</b>		
500 m – 10 k	All areas that are within 500 to 10,000 m from future wind farms	Manitoba Hydro
> 10 k	All areas that are over 10,000 m from a future wind farm	
<b>NATURAL</b>		
<b>Aquatics</b>		
No Aquatic Feature	All areas not covered by one of the criteria below	N/A
Ephemeral Streams (Non-Fish Bearing)	All streams classified Type E based on Fisheries and Oceans Canada habitat classification	Canada Department of Fisheries and Oceans
Spannable Waterbodies (Lakes and Ponds)	All waterbodies less than 300 m across	Prov MB - Topo 20k
Fens	Wetland classification based on the Forest Resource Inventory	Prov MB - Forestry Branch
Marsh	Wetland classification based on the Forest Resource Inventory	
Permanent Stream	All permanent streams not classified Type A or B streams based on Fisheries and Oceans Canada habitat classification	Canada Department of Fisheries and Oceans
Permanent Stream (CRA Fish Bearing)	All Type A and B streams based on Fisheries and Oceans Canada habitat classification	
<b>Special Features</b>		
No Special Land	All areas not covered by one of the criteria below	N/A
Managed Woodlots	Areas of land designated as Manitoba Forestry Association Woodlot Locations	Manitoba Forestry Association
Crown Land With Special Code	Land that is Crown-owned with a special code	Prov MB - Lands Branch

<b>Criteria</b>	<b>Description</b>	<b>Source</b>
Areas of Special Interest (ASI)	Areas within the province that represent the enduring features found within the region designated as areas of special interest	Prov MB - Protected Areas
Recreation Provincial Park (Non-Protected Portions)	Areas that are designated as recreational provincial parks, only the non-protected portions	
Wildlife Management Area (Non-Protected Portions)	Areas that are designated as wildlife management areas, only the non-protected portions	
<b>Proposed Protected Areas</b>	Areas that are being proposed as protected areas within the region	
Heritage Rivers	Areas designated by the Canadian Heritage Rivers Systems as being protected	Canadian Heritage Rivers Systems
Heritage Marshes	Areas designated by the Manitoba Heritage Marsh Program as being protected	Manitoba Heritage Marsh Program
Conservation Lands	All locations of Nature Conservancy Canada property interests	Nature Conservancy Canada
<b>Land Cover</b>		
Exposed/Urbanized/Open Land	Land cover features as compiled by Landsat Thematic Mapper imagery. Data were collected in 2005-2006	Prov MB - Land Cover Classification
Agricultural (Forage)		
Agricultural (Crops)		
Burnt Areas		
Grassland		
Deciduous Forest		
Coniferous Forest		
Mixed Forest		
Native Grassland		
<b>Wildlife Habitat</b>		
Other	All areas not covered by one of the criteria below	N/A
Ungulate Habitat (High)	Areas identified a ungulate wildlife habitat	Agriculture and Agri Food Canada - Canadian Land Inventory
Critical Habitat	Critical habitat as defined by SARA as "the habitat that is necessary for the survival or recovery of a listed wildlife species and that is identified as the species' critical habitat in the recovery strategy or in an action plan for the species"	Natural Resources Canada
Endangered Species Habitat	Land cover classified as having an endangered species habitat	Prov MB - Land Cover Classification
<b>BUILT</b>		
<b>Proximity to Buildings</b>		
> 800 m	Areas that are farther than 800 m from buildings	Manitoba Hydro - Windshield Survey
400 - 800 m	Areas that are between 400 and 800 m from buildings	
100 - 400 m	Areas that are between 100 and 400 m from buildings	
ROW - 100 m	Areas that are between the ROW and 100 m from buildings	
<b>Building Density</b>		
< 1 Building / Acre (Rural Agricultural)	Areas that have a building density of less than 1 building per acre	Manitoba Hydro - Windshield Survey
1 Building per 1-5 acres	Areas that have a building density of 1 building per 1 to 5 acres	
1-3 Buildings / Acre (Rural Residential)	Areas that have a building density of 1 to 3 buildings per acre	
3-10 Buildings / Acre (Suburban Density)	Areas that have a building density of 3 to 10 buildings per acre	
<b>Proposed Development</b>		
No Proposed Development	All areas not covered by one of the criteria below	N/A
Proposed Development – Industrial Zoning	Administrative areas indicating the Development plan of the respective RM which is a long range development	Project area Rural Municipality zoning departments
Proposed Development – Agriculture Zoning	Proposed Development – Agriculture Zoning plan projected for the next 20-30 years	
Proposed Development - Commercial Zoning		
Proposed Development - Rural Residential Zoning		
<b>Soil Capability &amp; Agricultural Use</b>		
Other	All areas not covered by one of the criteria below	N/A
Class 6 & 7 (Low Productivity)	Soils classified from the MB Soils Database from a combination of all the digital RM soils data available on the MLI website	Prov MB - Soils

<b>Criteria</b>	<b>Description</b>	<b>Source</b>
Organic Soils / Peat Bogs / Sod Production	Soils classified from the MB Soils Database from a combination of all the digital RM soils data available on the MLI website	
Class 4 & 5 (Forages, Transitional)	Soils classified from the MB Soils Database from a combination of all the digital RM soils data available on the MLI website	Prov MB - Soils
Class 1- 3 (Prime Ag./Cultivated Land)	Soils classified from the MB Soils Database from a combination of all the digital RM soils data available on the MLI website	
<b>Land Use</b>		
Forest	Land use features as compiled by Landsat Thematic Mapper imagery. Data were collected in 2005-2006	Prov MB - Land Cover Classification
Open Land (Sand and Gravel)		
Burnt Areas	Areas that have been classified as having a fire occur in the vicinity	Prov MB - Fire Program
Active Forestry Operation	Areas representing quota holders for the 2010-2015 timber sale plan	Prov MB - Forestry Branch
Listed Trails (Existing & Planned)	Trails that are listed as snowmobile trails within Manitoba	SnoMan
Agricultural (Forage)	Land use features as compiled by Landsat Thematic Mapper imagery. Data were collected in 2005-2006	Prov MB - Land Cover Classification
Intense Development and Use		
Agricultural (Crops)		
Intensive Livestock	All Hog Operation Farms within the region	Manitoba Pork Council
<b>National/Provincial/Municipal Historic Sites</b>		
> 300 m	Areas that are greater than 300 m from various historic sites	Manitoba Historical Society
200 - 300 m	Areas that are between 200 and 300 m from various historic sites	
<b>Proximity to Heritage Sites</b>		
> 300m	Areas that are greater than 300 m from various heritage sites	Prov MB - Heritage Resource Branch
0 - 300m	Areas that are between 200 and 300 m from various heritage sites	
<b>Landscape Character (Viewsheds)</b>		
Recreational Trails	All areas within the viewshed of these various layers	Trans Canada Trail
Identified Scenic Provincial Trails & Roads		Prov MB - Infrastructure and Transportation
Resort Lodges and Campgrounds		Google Earth
Designated Historic Sites		Manitoba Historical Society Google Earth
<b>Edge of Field</b>		
Road Allowances	Areas between sections provided for roads, where no roads have been built	Manitoba Hydro - Parcel Fabric
Drains	All drains	Canada Department of Fisheries and Oceans
Quarter Section / Half-Mile Lines	All quarter and half-mile section lines	Manitoba Hydro - Parcel Fabric
Parallel or Adjacent To Road Allowances	Areas between sections provided for roads, where no roads have been built, that are parallel or adjacent	Derived
Other (None of the Above)	All areas not covered by one of the criteria above	N/A