

**Information Request Number: JRP.15**  
**Composite Mapping (Terrestrial Environment)**

**Requesting Organization – Joint Review Panel**

**Information Request No.: JRP.15**

**Subject - Composite Mapping (Terrestrial Environment)**

**References:**

EIS Guidelines, Section 2.4 (Sustainable Development); Section 3.2 (Presentation of the EIS); Section 4.4.4.3 (Terrestrial Environment) & Section 4.5.1 (Environmental Effects General) EIS, Volume IIA, Chapter 2 (Existing Environment)

Minaskuat Inc. (December 2008) Project Area Ecological Land Classification Environmental Baseline Report. Report prepared for the Lower Churchill Hydroelectric Generation Project.

**Rationale:**

The EIS Guidelines require the Proponent to provide charts, diagrams and maps "wherever useful to clarify the text" (p. 11).

Minaskuat Inc. (December 2008) includes a series of individual maps depicting ecotypes for the Churchill River Valley and the Transmission line (Appendix C and D). However, there are no maps in the EIS illustrating the multiple and overlapping habitat use between different Key Indicator species, nor are there maps illustrating the biodiversity of the river valley and transmission line. Habitat use maps provided in Volume IIA, Chapter 2 also do not illustrate the areal extent of the flooded area within the Churchill River valley.

The EIS Guidelines require that the Proponent assess the extent to which biological diversity is affected by the Project (Sections 2.4 & 4.5.1). The Canadian Biological Diversity Strategy described "biological diversity" as the variety of species and ecosystems [on Earth] and the ecological processes of which they are a part<sup>2</sup>.

<sup>2</sup>Canadian Biological Diversity Strategy: Canada's Response to the Convention on Biological Diversity. 1996. Environment Canada. 88p. Available online at [http://www.emanres.ca/eman/reports/publications/rt\\_biostrat/intro.html](http://www.emanres.ca/eman/reports/publications/rt_biostrat/intro.html) (Accessed on April 20, 2009)

**Requesting Organization – Joint Review Panel****Information Request No.: JRP.15****Information Request:**

In order for the Panel to gain a comprehensive understanding of the multiple and overlapping habitat uses and the biodiversity potentially most directly affected by the Project, the Proponent is asked to submit a composite map(s) of the Project Area<sup>3</sup> encompassing an area of land spanning 2 km along either side of the Churchill River to be potentially most directly affected by clearing and impoundment of the Muskrat Falls and Gull Island reservoirs and a 1.6 km-wide corridor for the proposed interconnecting transmission line corridor from Happy-Valley Goose Bay to Churchill Falls including the following terrestrial and biodiversity descriptors, as appropriate:

1. Ecological Land Classification ecotypes
2. Moose primary habitat
3. Caribou (RMW and GR) primary habitat
4. Black bear primary habitat
5. Beaver primary habitat
6. Marten primary habitat
7. Porcupine primary habitat
8. Waterfowl primary habitat (staging and breeding)
  - a) Canada Goose
  - b) Surf Scoter
9. Ruffed Grouse primary habitat
10. Osprey primary habitat
11. Wetland Sparrow primary habitat (breeding)
12. Harlequin Duck primary habitat (staging and breeding)
13. Other Species of Concern
  - a) Common Nighthawk
  - b) Grey-cheeked Thrush
  - c) Olive-sided Flycatcher
  - d) Rusty Blackbird

The composite map(s) to be submitted should show the maximum floodline within the Churchill River valley.

The Proponent should include all other pertinent information (including any additional descriptors aside from key indicators) that would facilitate assessment of the extent to which biodiversity is affected, including secondary and tertiary habitat where appropriate, with particular focus on the area to be inundated. The composite map(s) should be at a scale that allows reviewers to associate effect predictions with precise locations and/or ecotypes and should clearly illustrate any areas of high biodiversity. As such, the Proponent may want to divide the Project Area into smaller sections for clearer depiction.

<sup>3</sup> Project Area as described on p. 3-1 of the Component Study on Project Area Ecological Land Classification (Minaskuat Inc., December 2008)

The map(s) should reflect the compilation of data provided throughout the EIS and terrestrial-related component studies. In order to facilitate public review of the information, the Proponent should discuss the feasibility of presenting these maps in an electronic interactive format, and if possible, do so.

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**Response:**

The attached composite map series present the distribution of ecoregions and primary habitat for the following species within the Churchill River valley and along the Interconnecting Transmission Line corridor:

- Moose;
- Caribou calving (RWM only);
- Caribou winter (RWM and GR);
- Black Bear;
- Marten;
- Porcupine;
- Canada Goose;
- Ruffed Grouse;
- Wetland Sparrows;
- Common Nighthawk;
- Gray-cheeked Thrush;
- Olive-sided Flycatcher; and
- Rusty Blackbird.

Also indicated are the number of terrestrial Key Indicators (KIs) from the EIS that could use each ecoregion as primary habitat. Note that due to other factors that influence their distribution, maps depicting primary habitat for the following KIs were not prepared (see Volume IIA-Section 2.4.1.3):

- Beaver – primary habitat is dependent on factors including geology, stream width, slope, presence of aspen;
- Surf Scoter – primary habitat is dependent on factors including water depth, presence of rocky bottoms, elevated wetlands;
- Osprey – primary habitat is dependent on factors including timing of open water in spring, clarity of water, availability of suitable nest substrate; and
- Harlequin Duck – primary habitat for breeding is associated with swift flowing rivers. Other factors include presence of black fly larvae and aspects of water quality, that are not all discernable at a mapping scale.

George River Caribou do not calve in the Assessment Area (Bergerud et. al., 2008).

Biodiversity, or biological diversity, is the variability among living organisms and the ecological complexes of which they are a part. The EIS examined species diversity or species richness, which refers to the number and type of different species within a given area (Volume IIA-Section 1.0). The requested composite maps represent the overlap of important habitats for KIs, and provide an indication of the relative degree of biodiversity among these areas for these species only.

Presenting these maps in an interactive electronic format was investigated, but it would not provide the information in a format that would be available in most of the centres in Labrador where the EIS is housed for review. In addition, the electronic version would contain data files that were so large as to be awkward to view on many computers. It should also be noted that the electronic mapping would not be available as a web page

on the internet because there is no appropriate web page for the Project to host it. The paper maps produced can be viewed and interpreted by all parties.

**References:**

- Bergerud, C. S.N. Luttich and L. Camps. 2008. *The Return of Caribou to Ungava*. McGill-Queen's Native and Northern Series, 50. McGill-Queen's University Press, Montreal, QC.

## **ATTACHMENT A**

**Primary Habitat for Individual Terrestrial Key Indicators  
for Churchill River Valley**

**Composite Mapping of Primary Habitat for Terrestrial Key  
Indicators for Churchill River Valley**

**Primary Habitat for Individual Terrestrial Key Indicators  
for Interconnecting Transmission Line**

**Composite Mapping of Primary Habitat for Terrestrial Key  
Indicators for Interconnecting Transmission Line**

**INFORMATION RESPONSES  
LOWER CHURCHILL PROJECT  
CEAA REFERENCE NO.07-05-26178**

**JOINT REVIEW PANEL**

**JRP.15**

**Composite Mapping (Terrestrial Environment)**

June 29, 2009



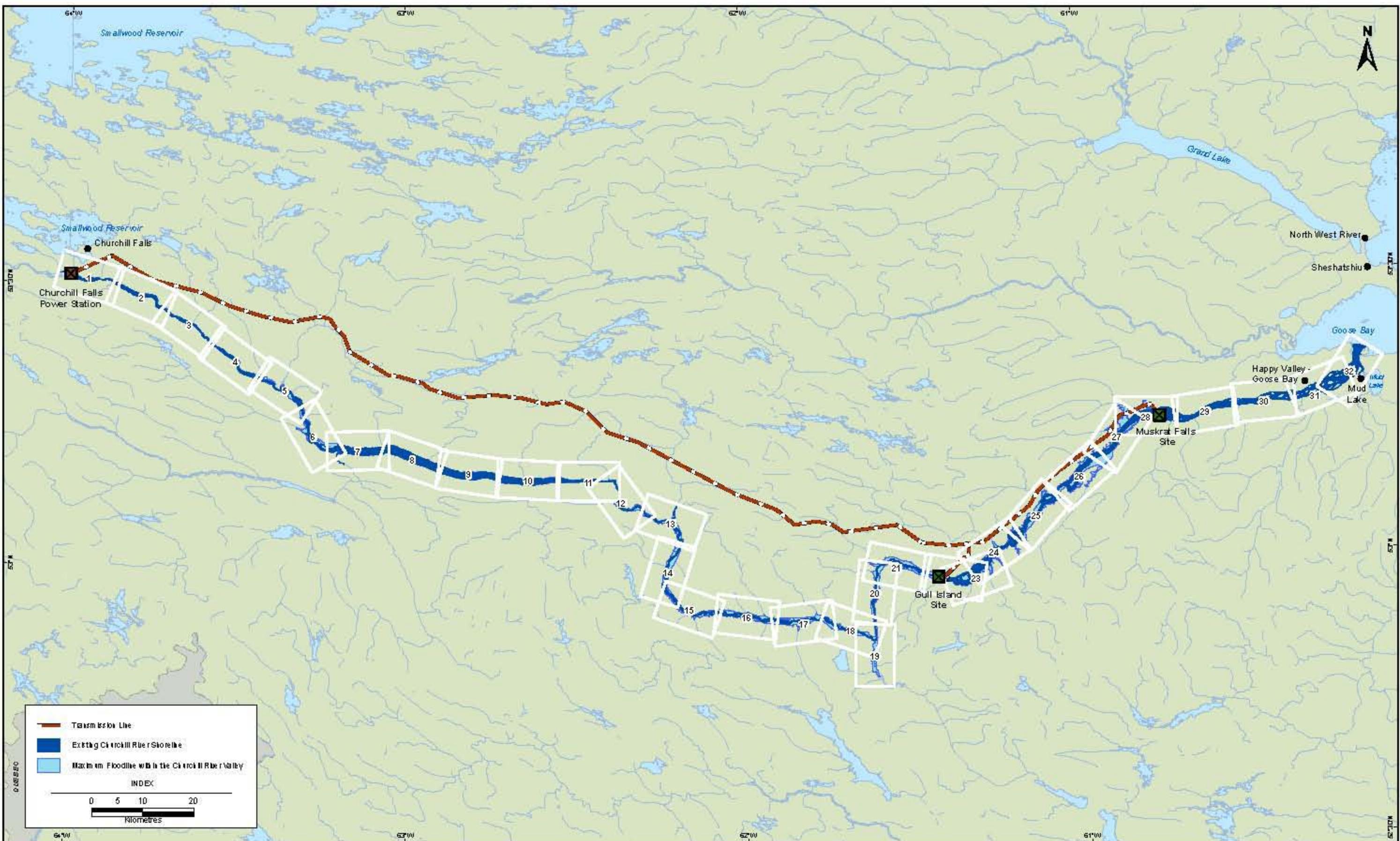
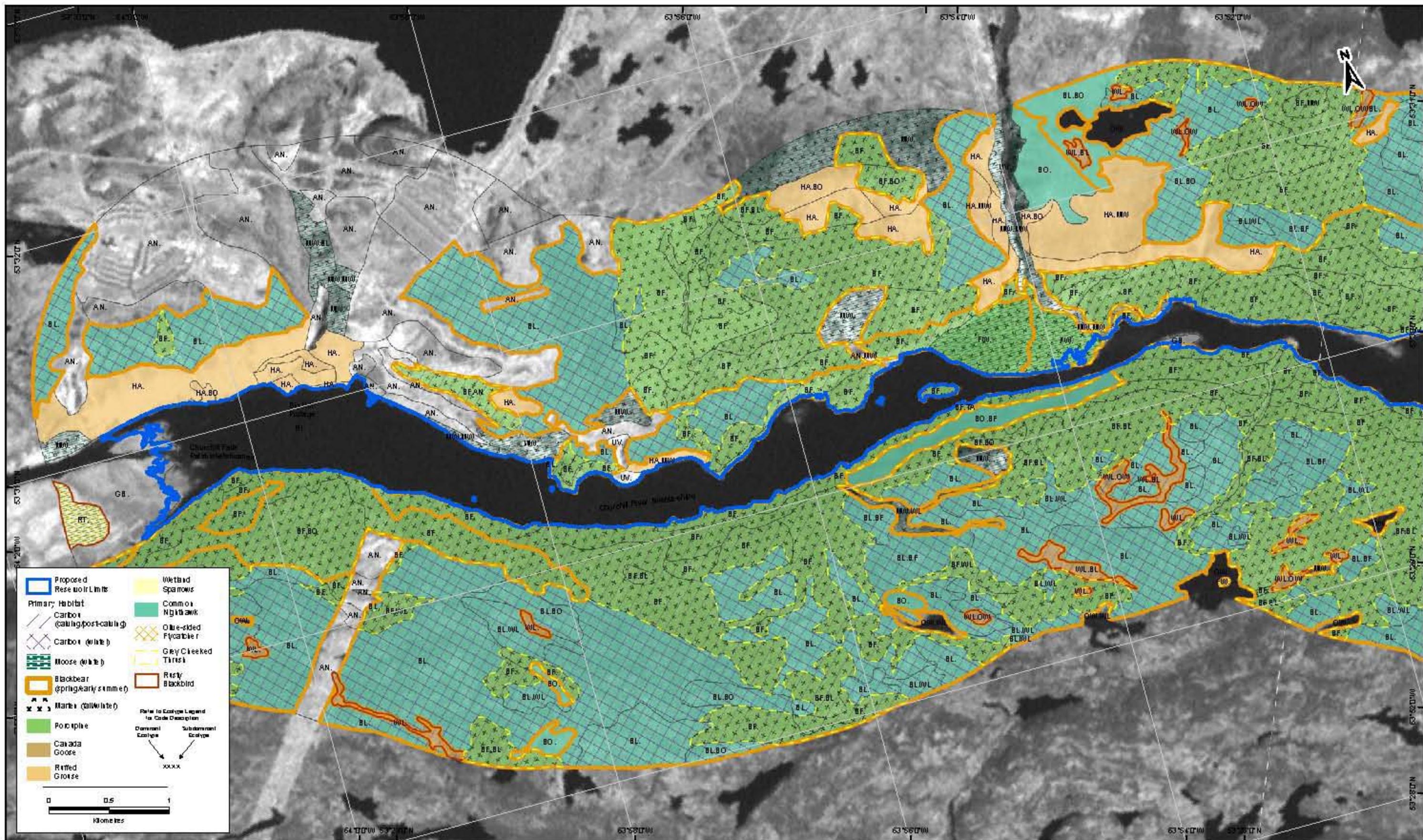


FIGURE NO:  
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Primary Habitat for Individual Terrestrial Key Indicators for Churchill River Valley - Index

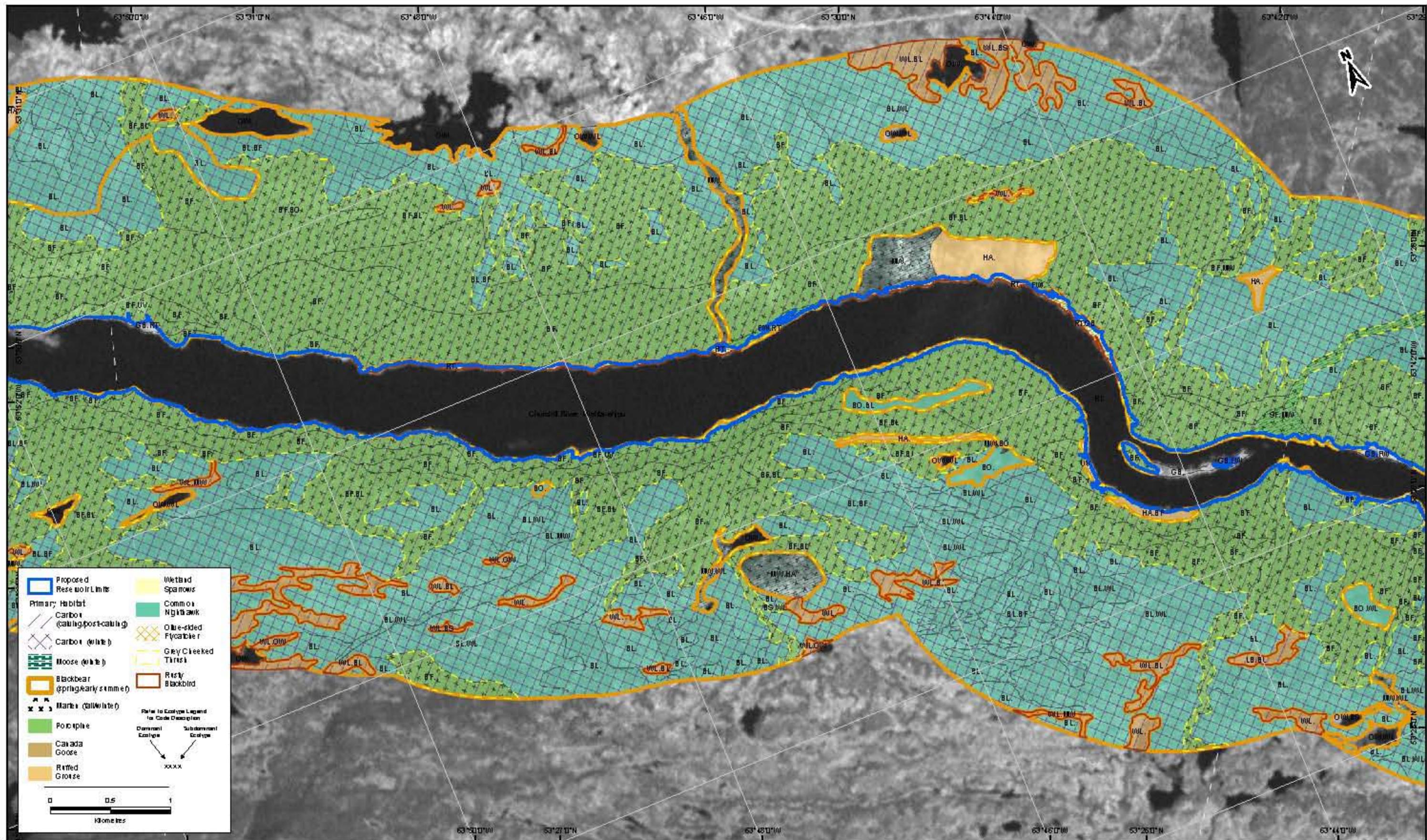
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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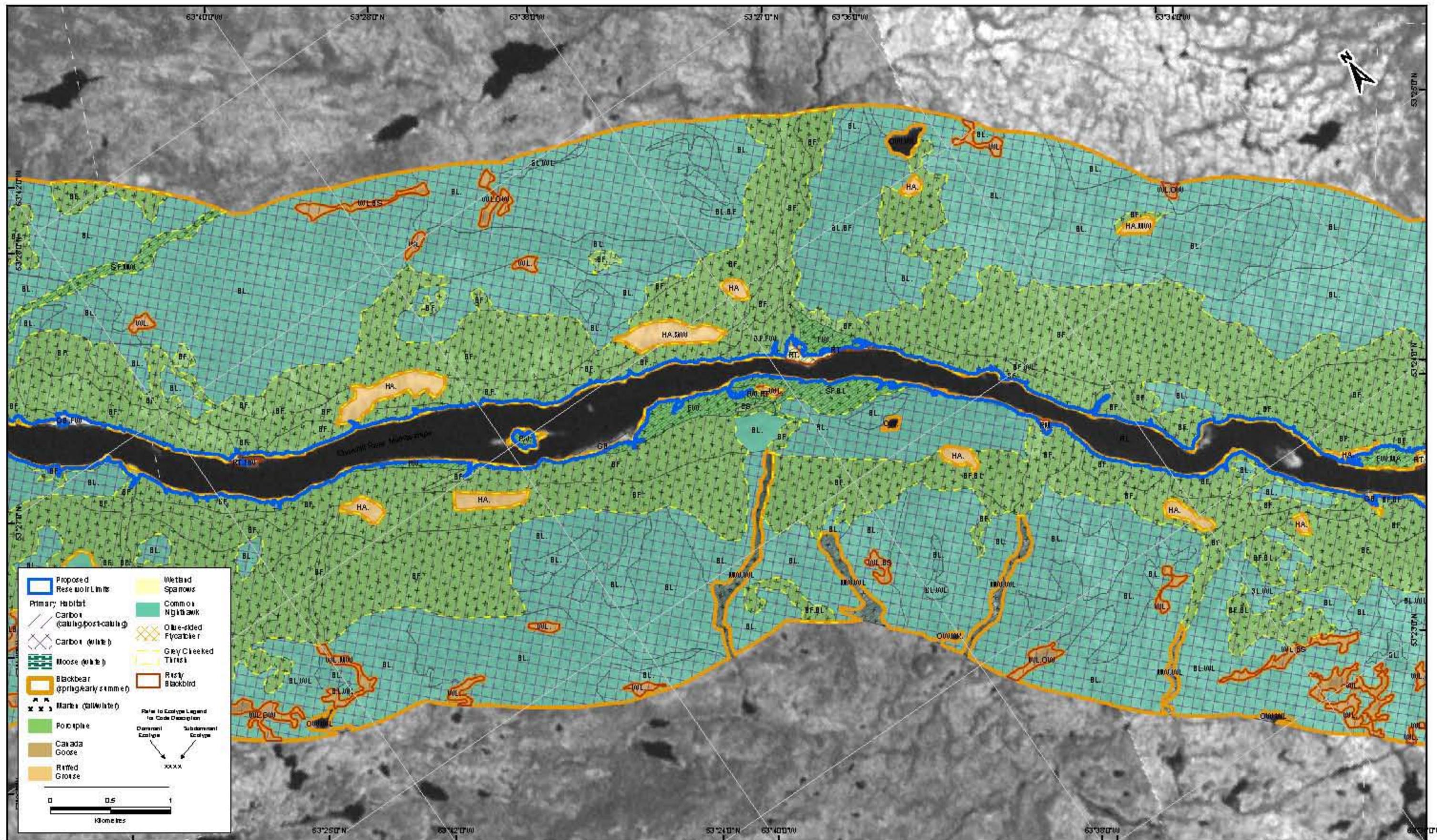
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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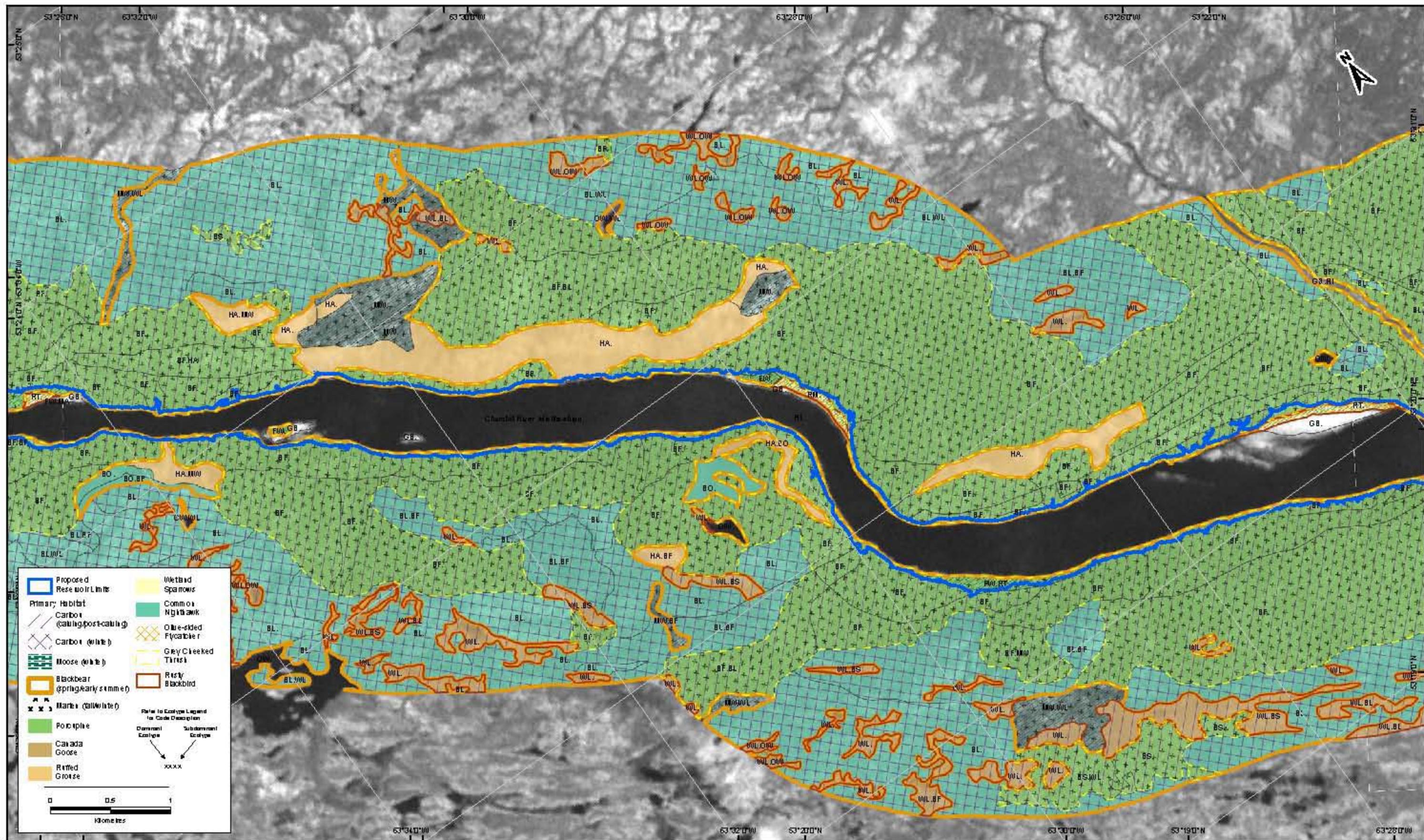


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**Churchill River**

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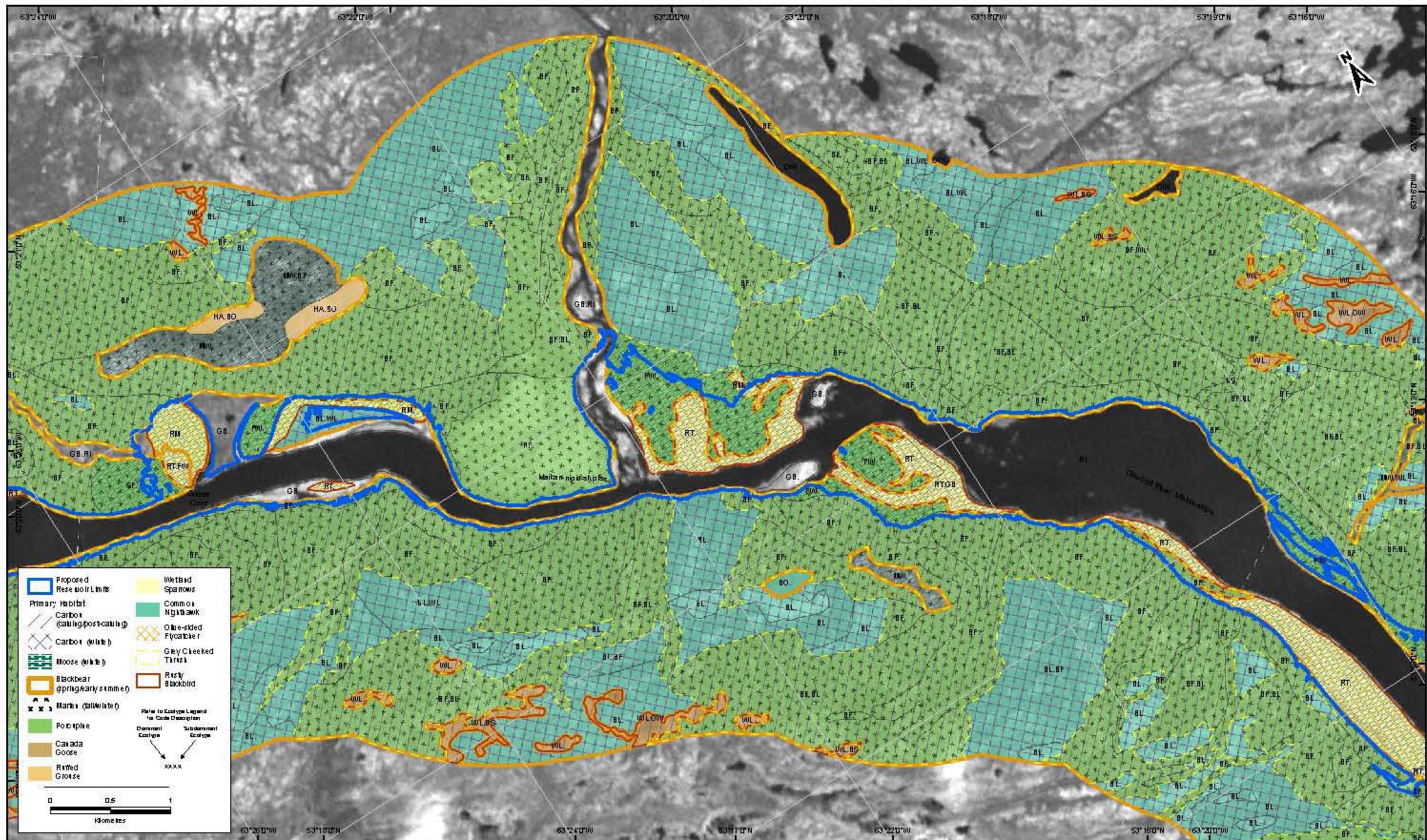
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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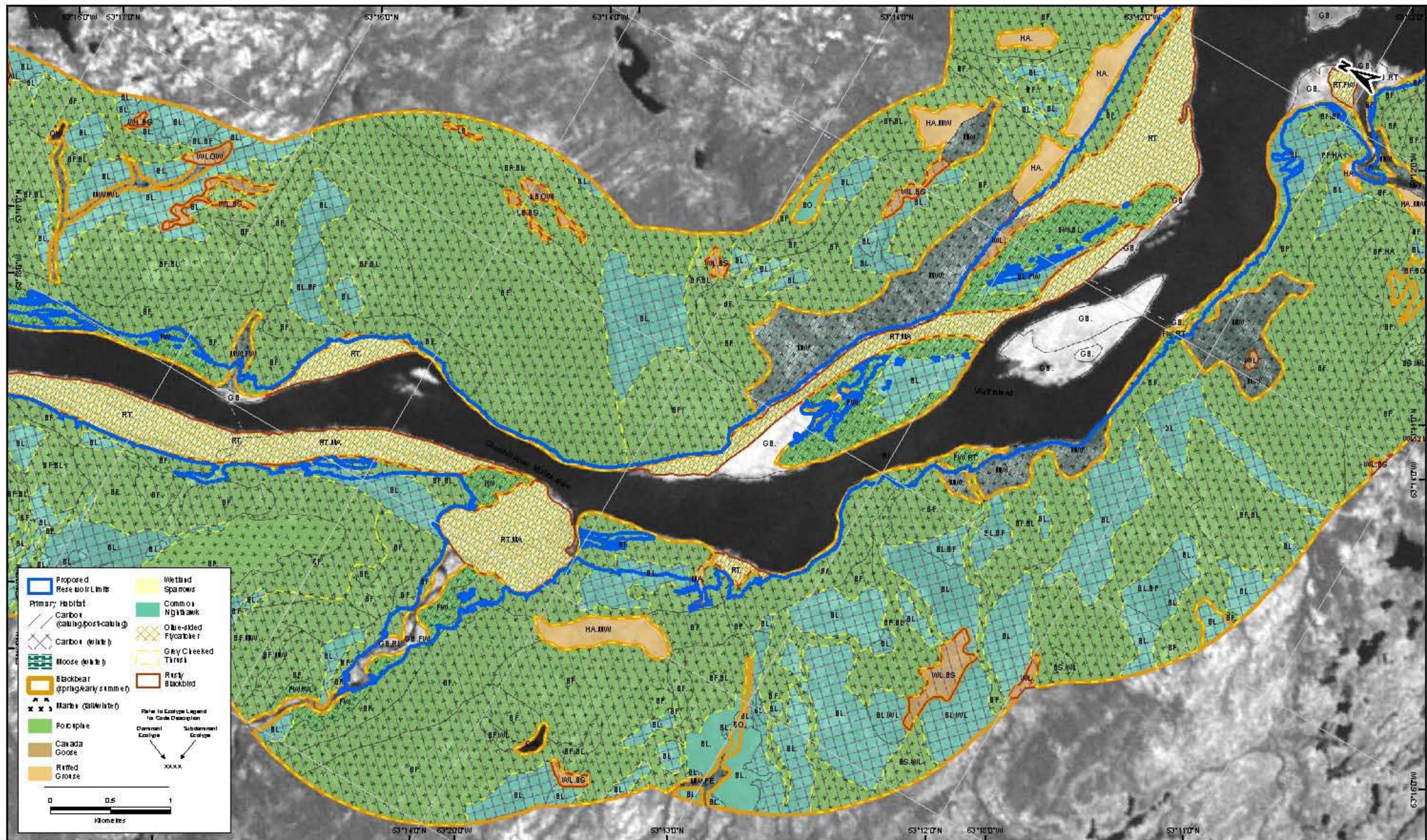
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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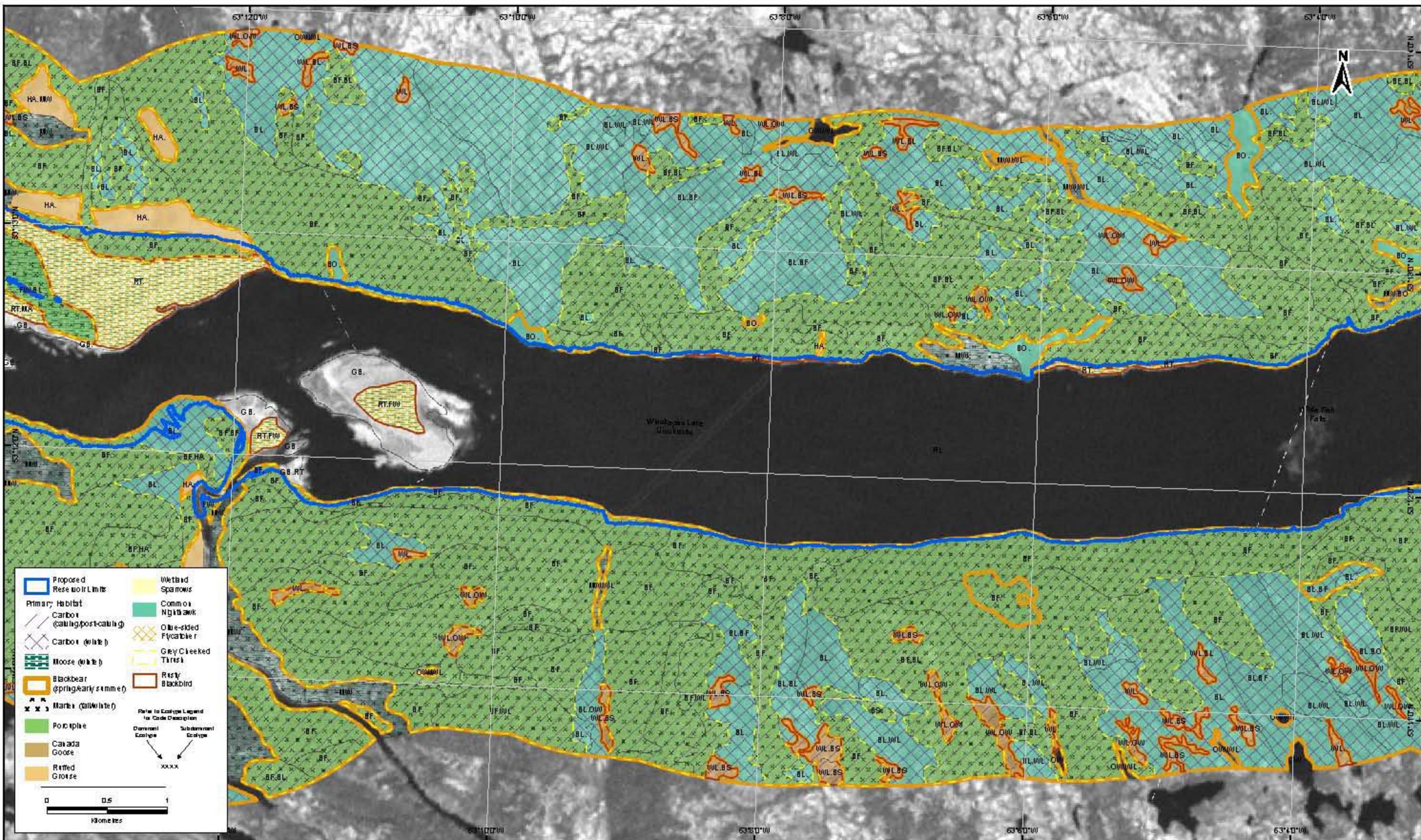
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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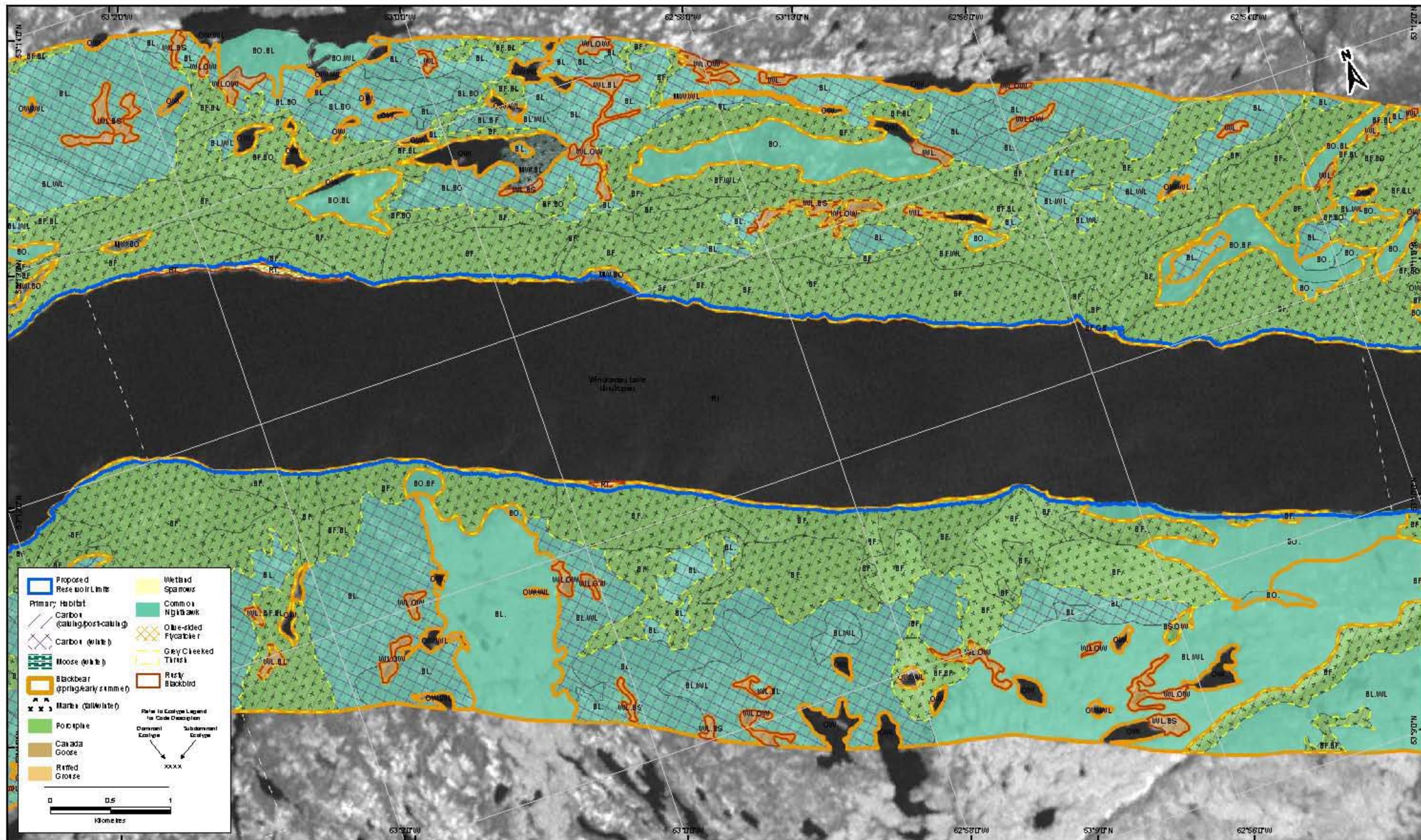
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

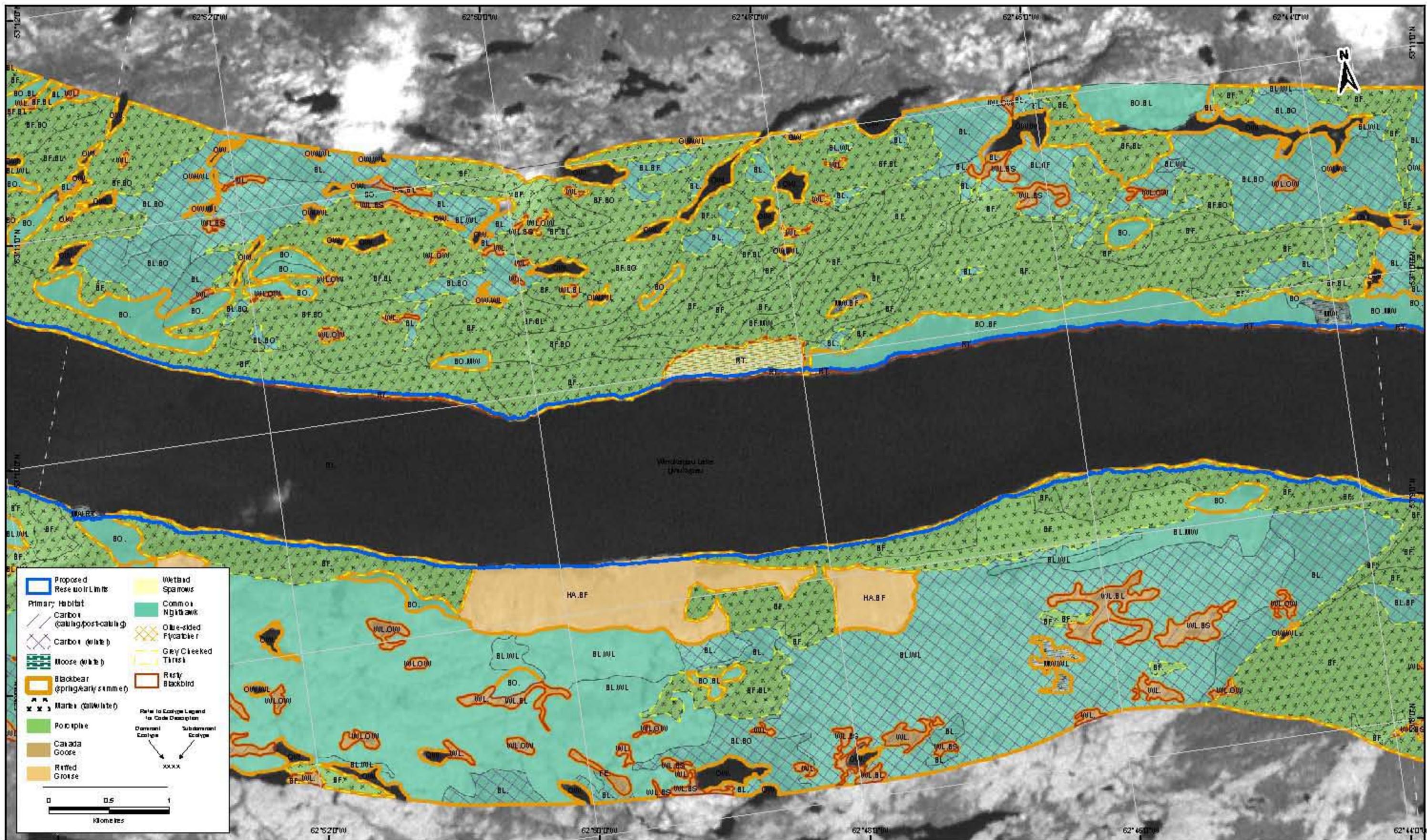
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**Primary Habitat for Individual Terrestrial Key Indicators**  
**Churchill River**

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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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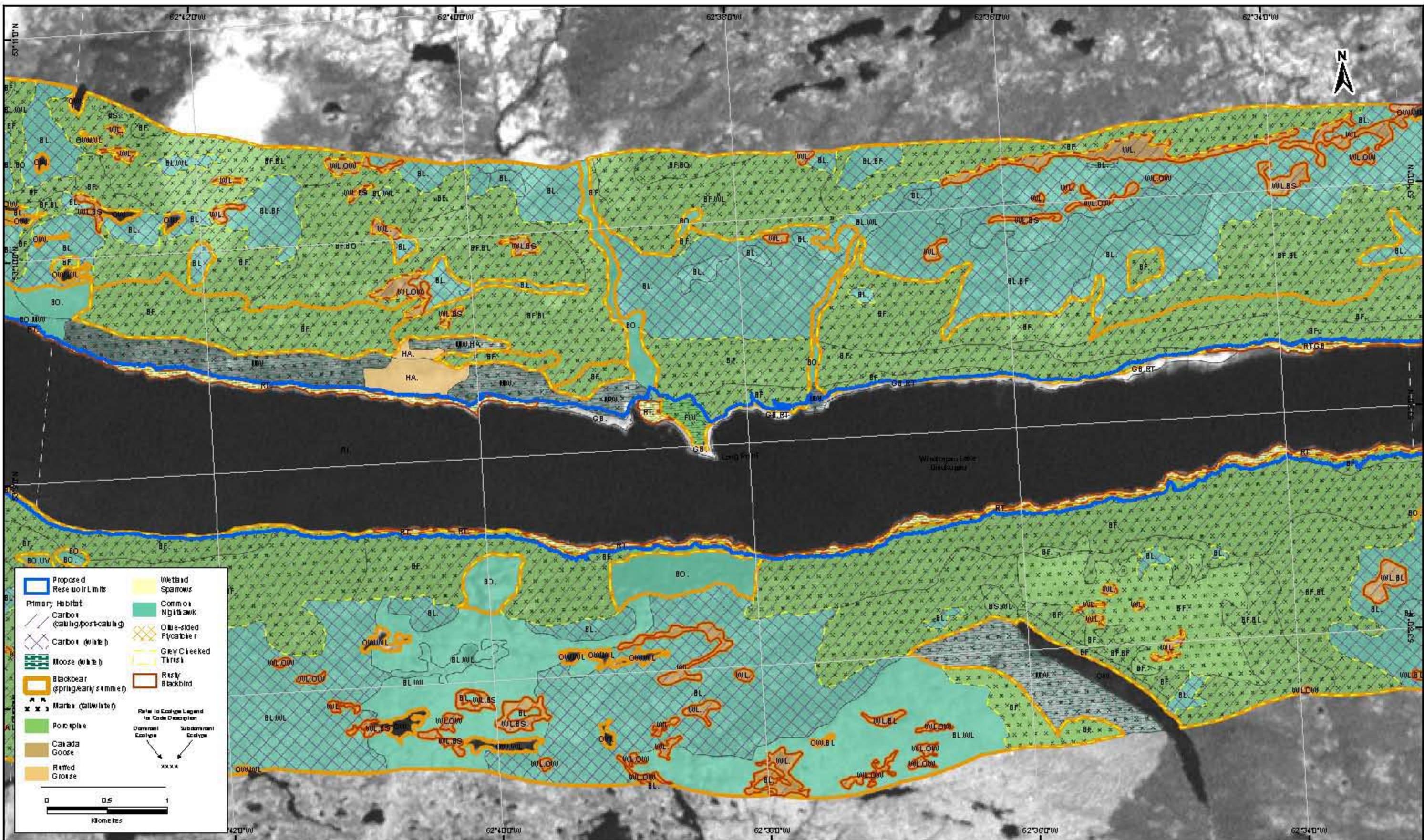
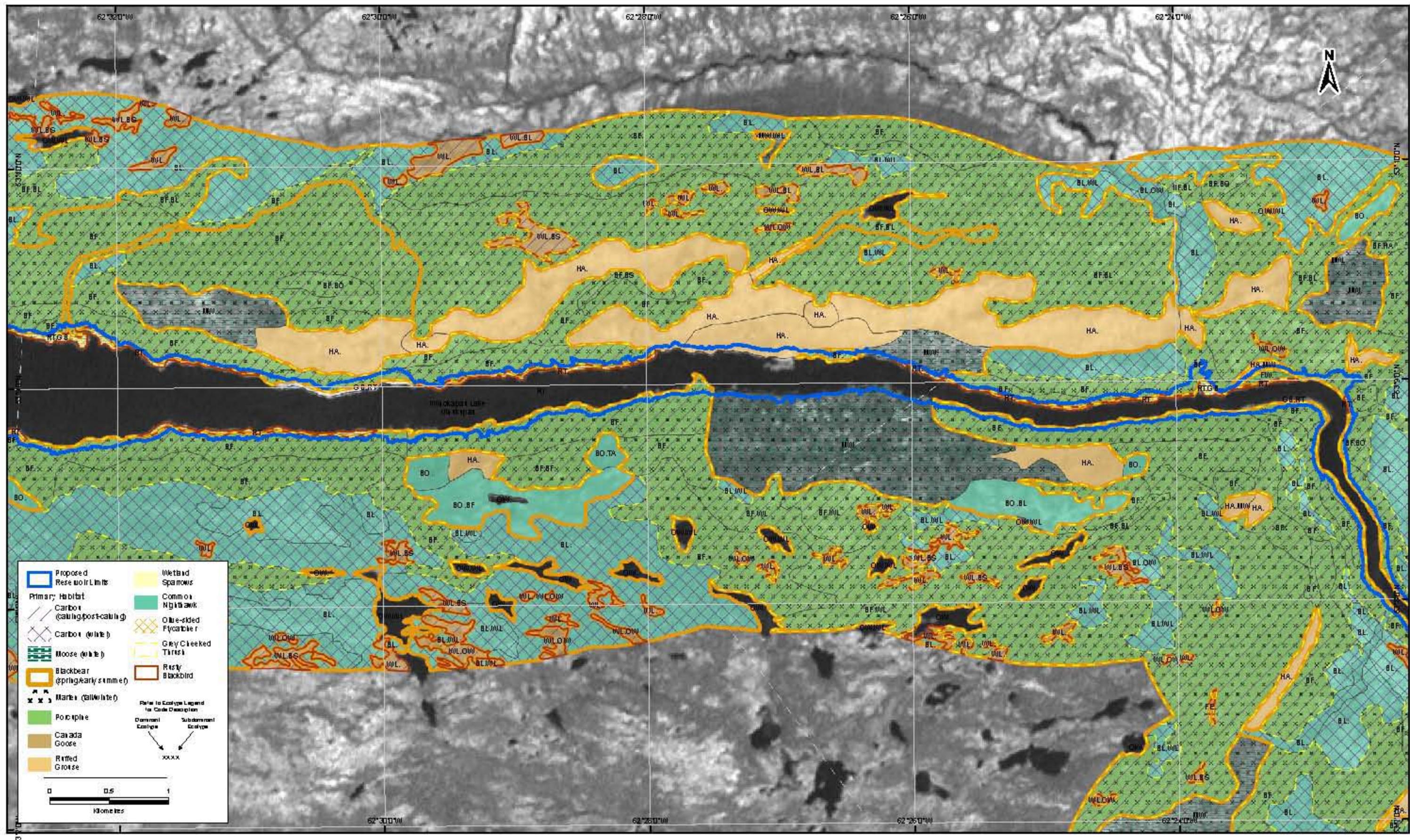


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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

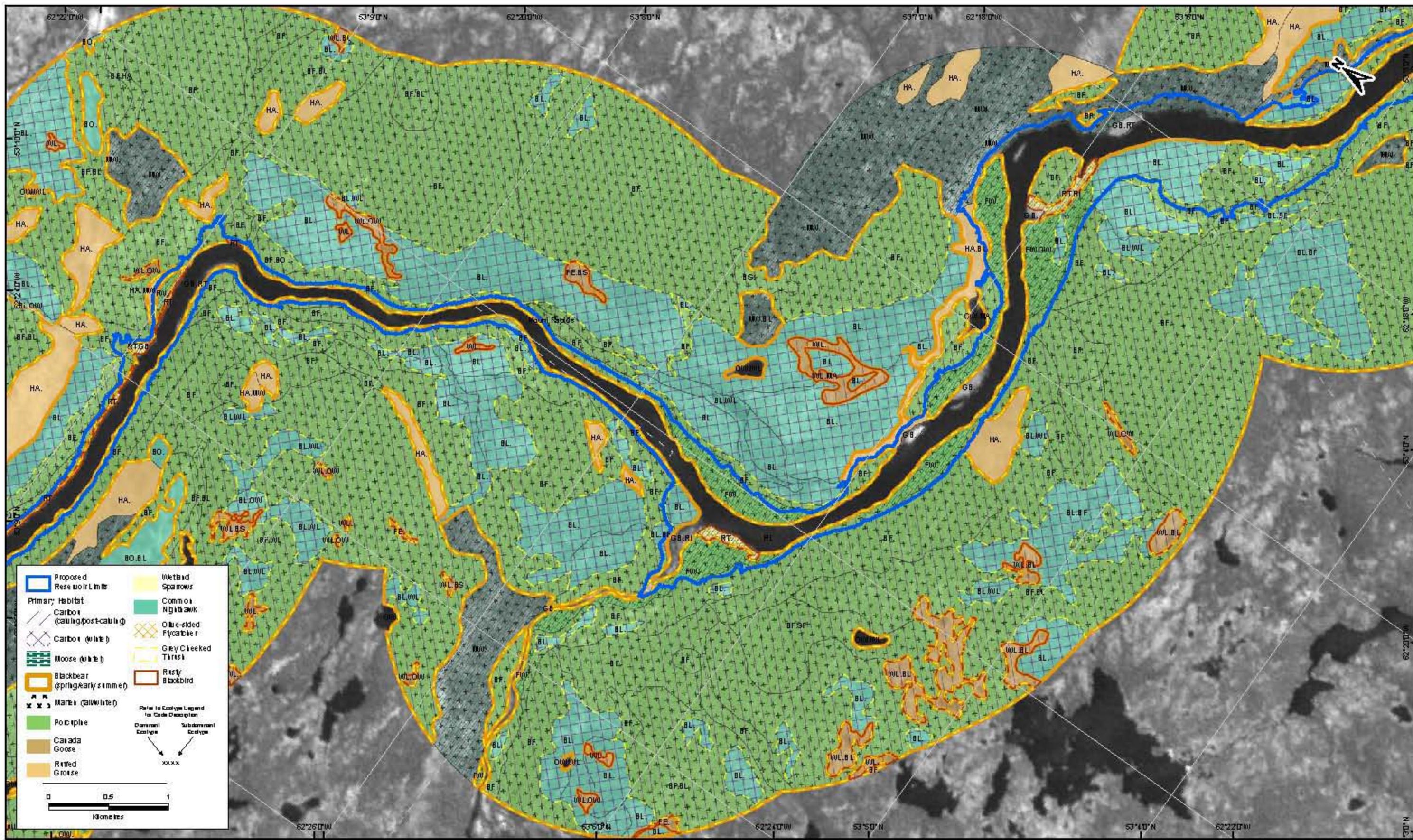
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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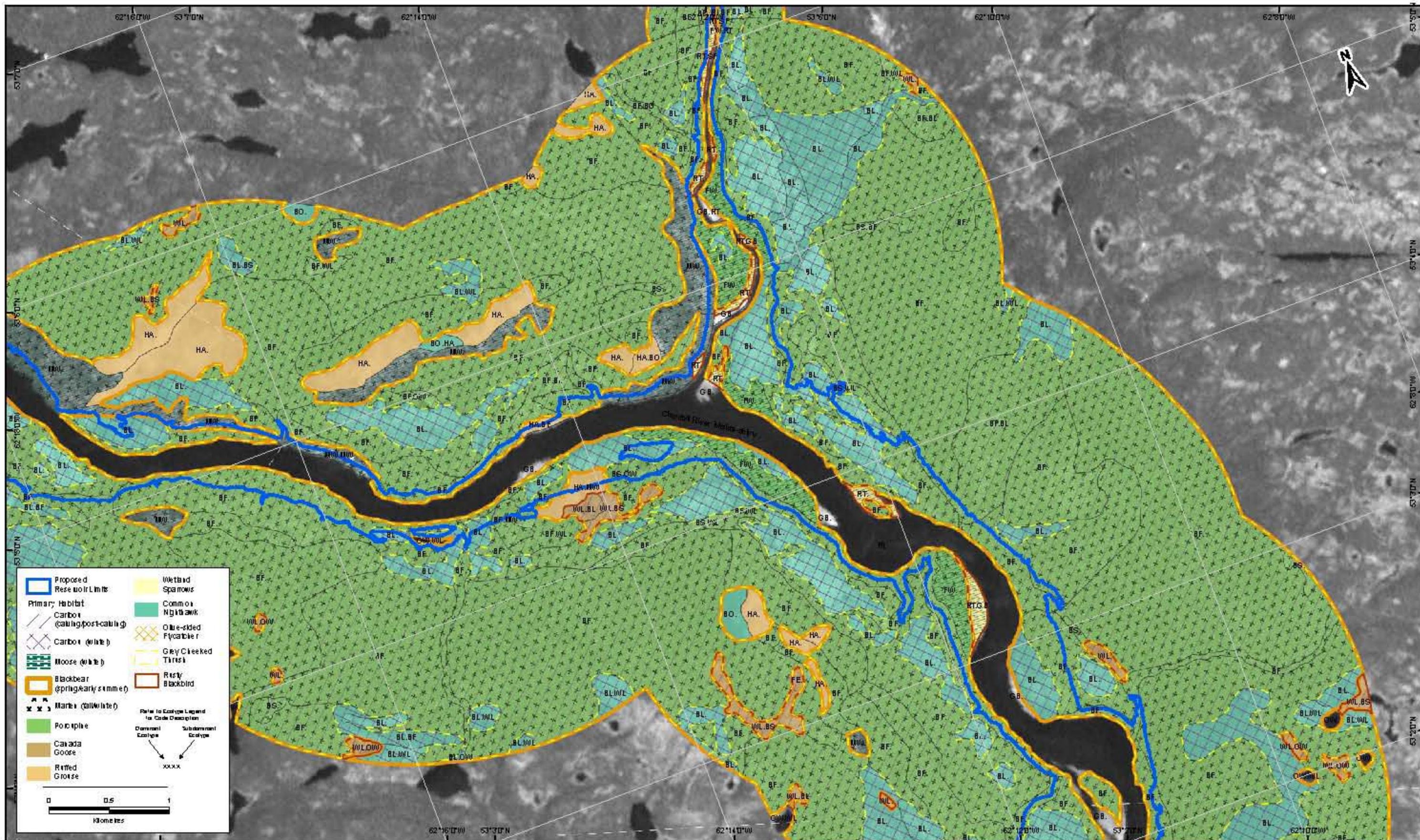
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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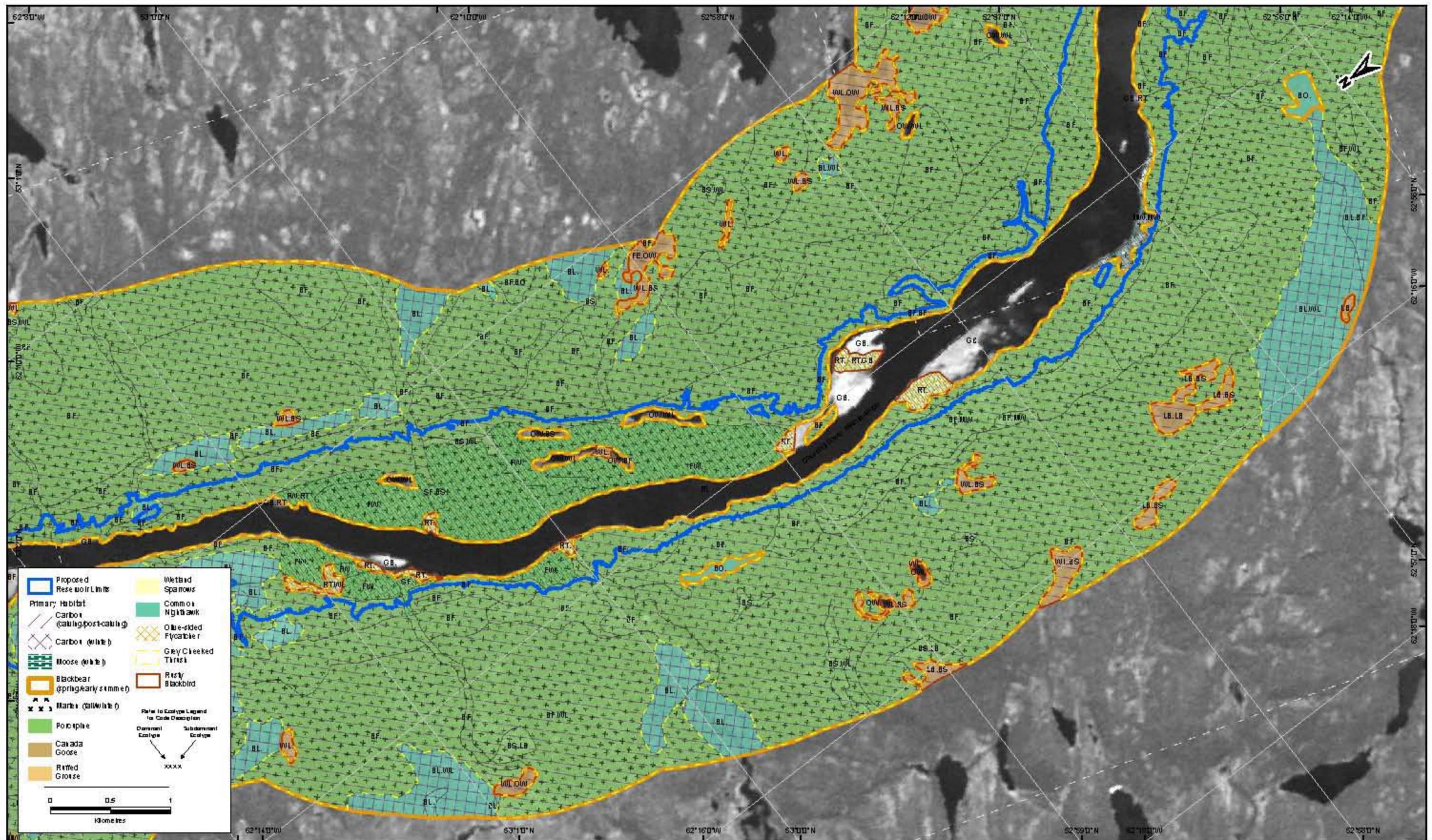
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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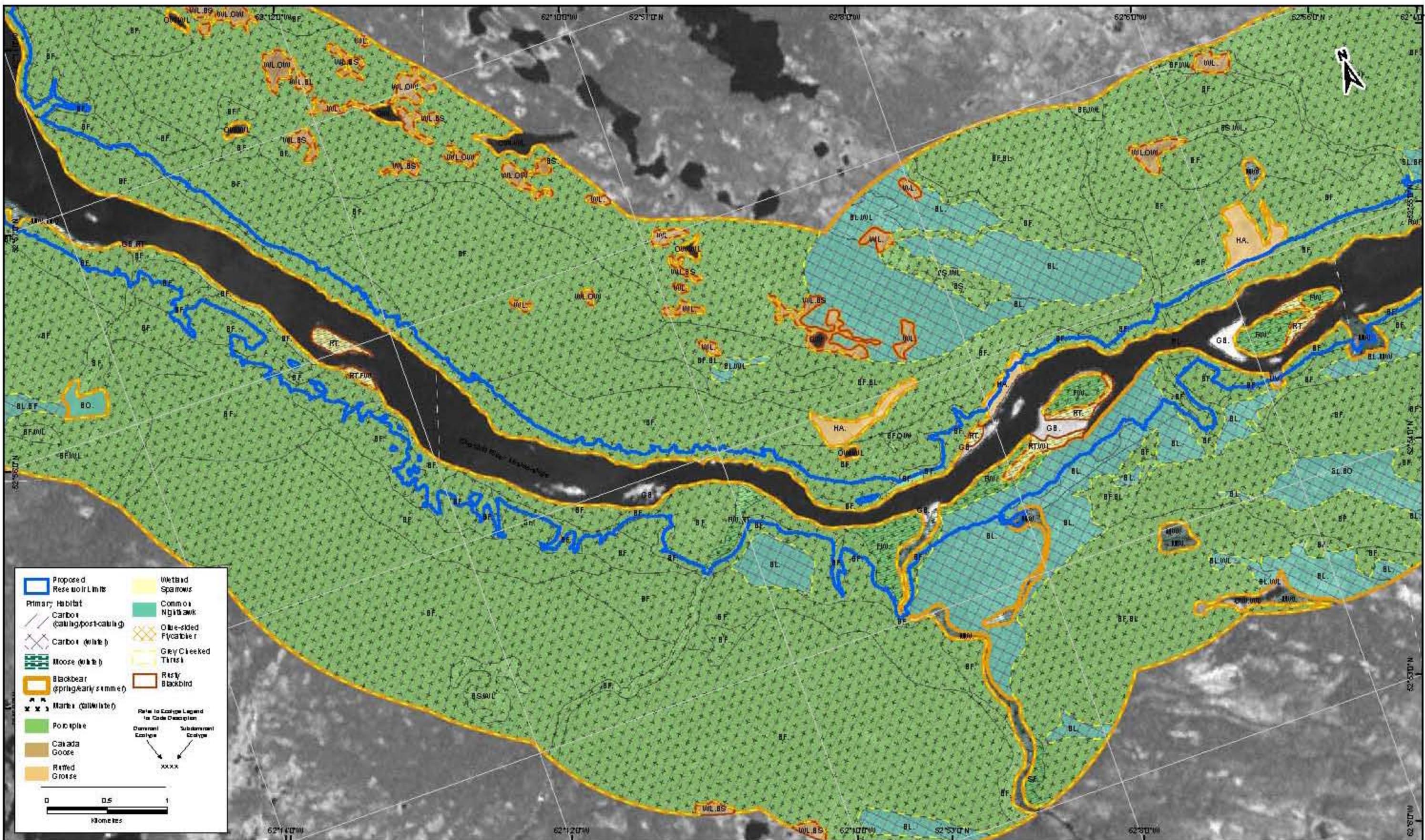
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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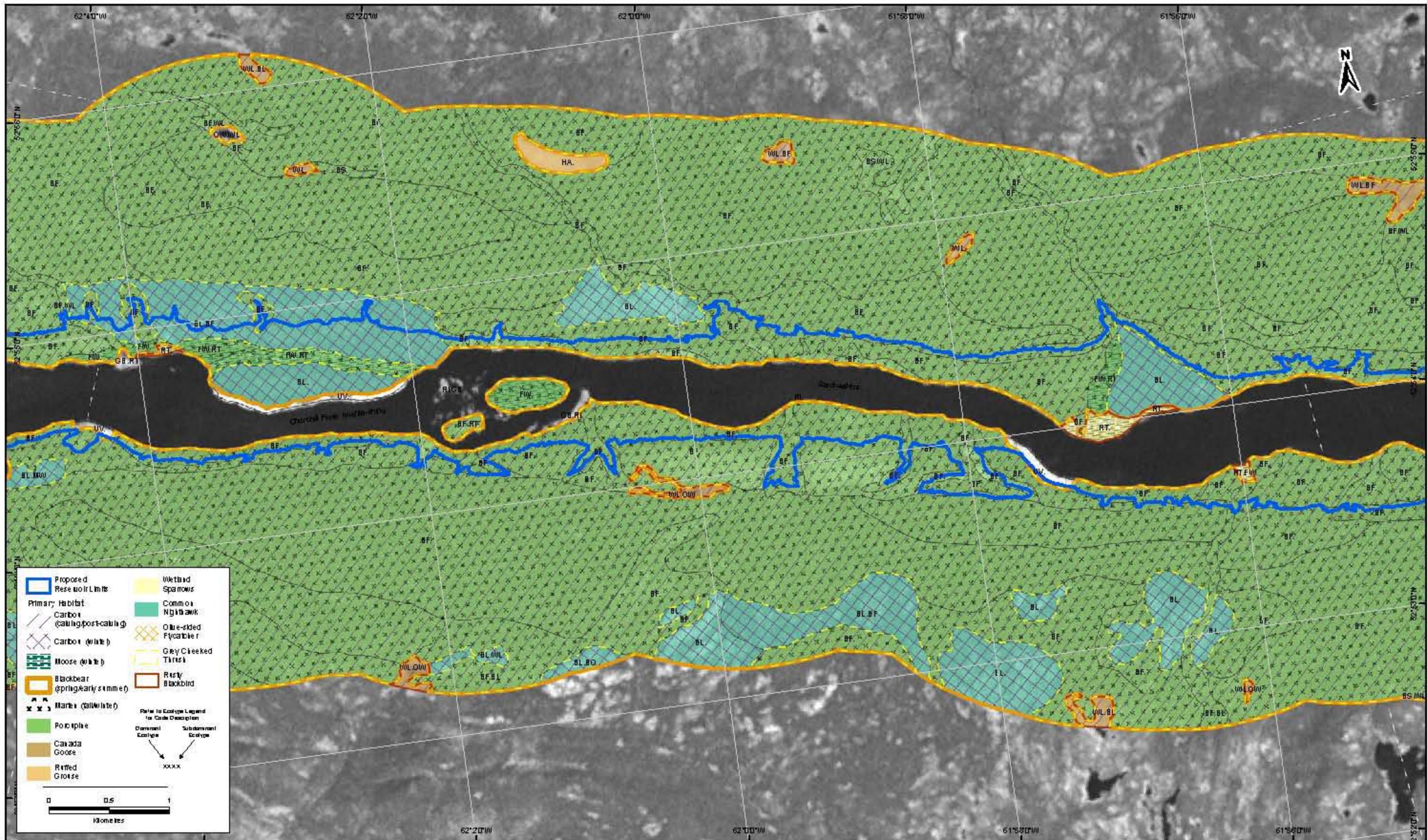
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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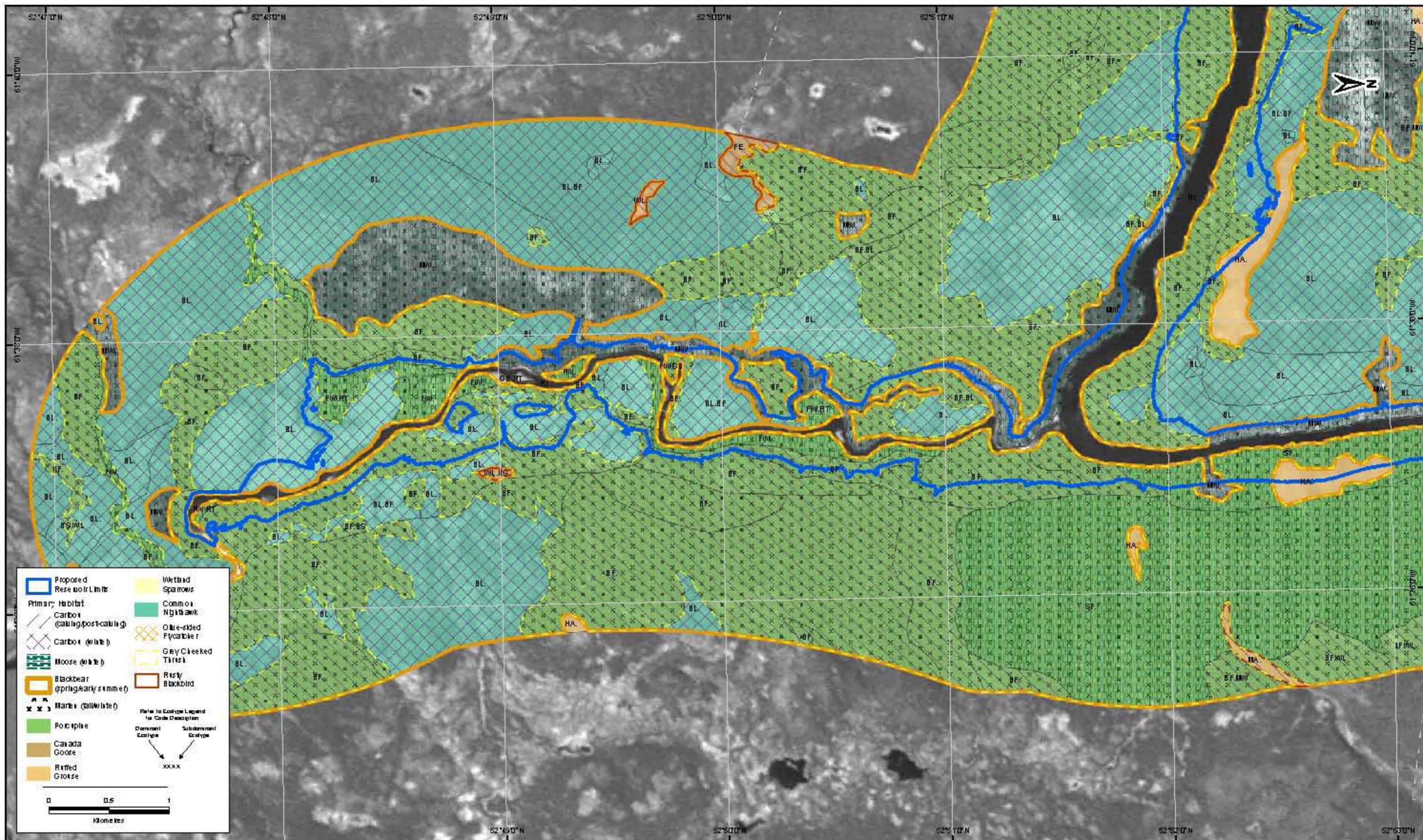


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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Churchill River**

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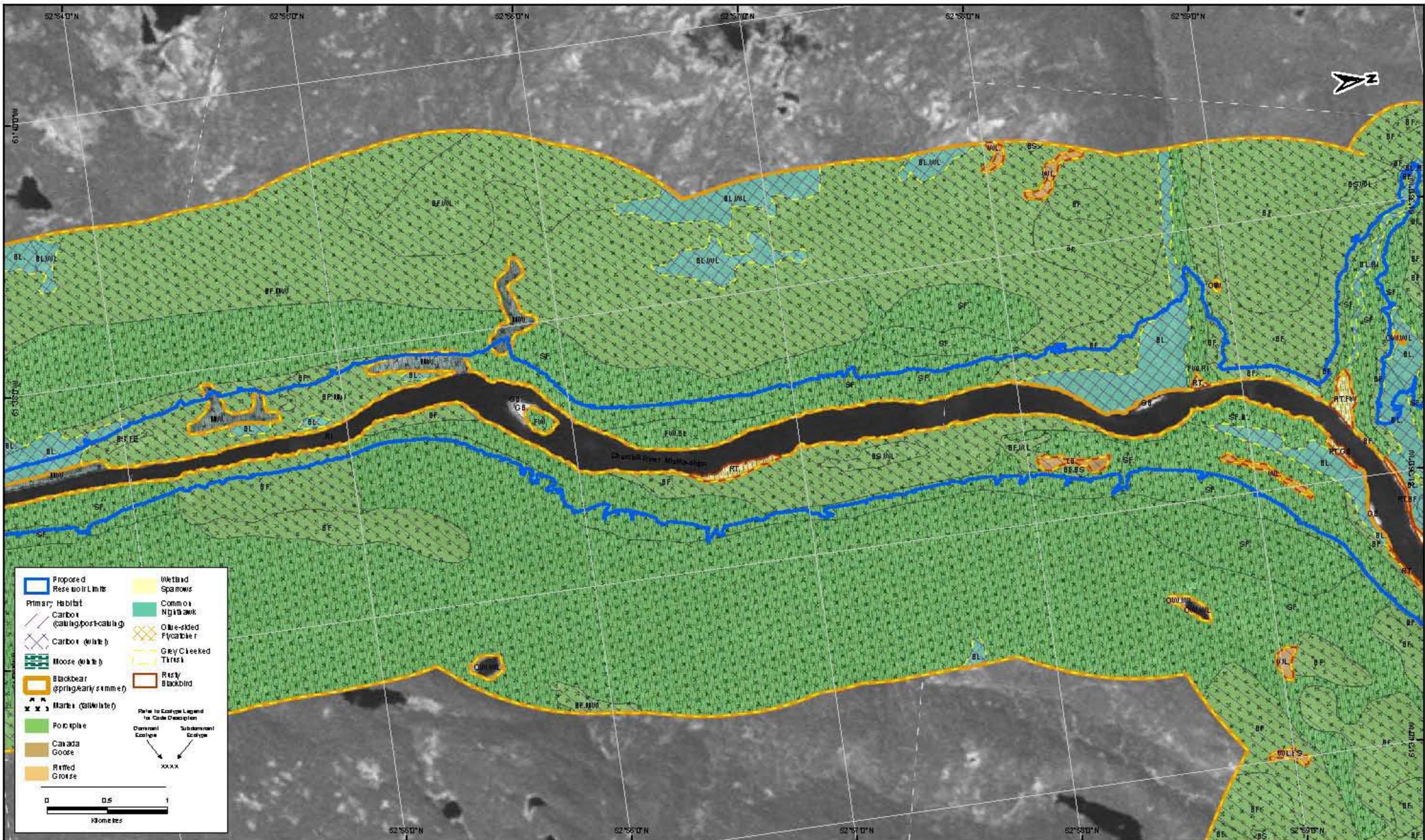
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IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
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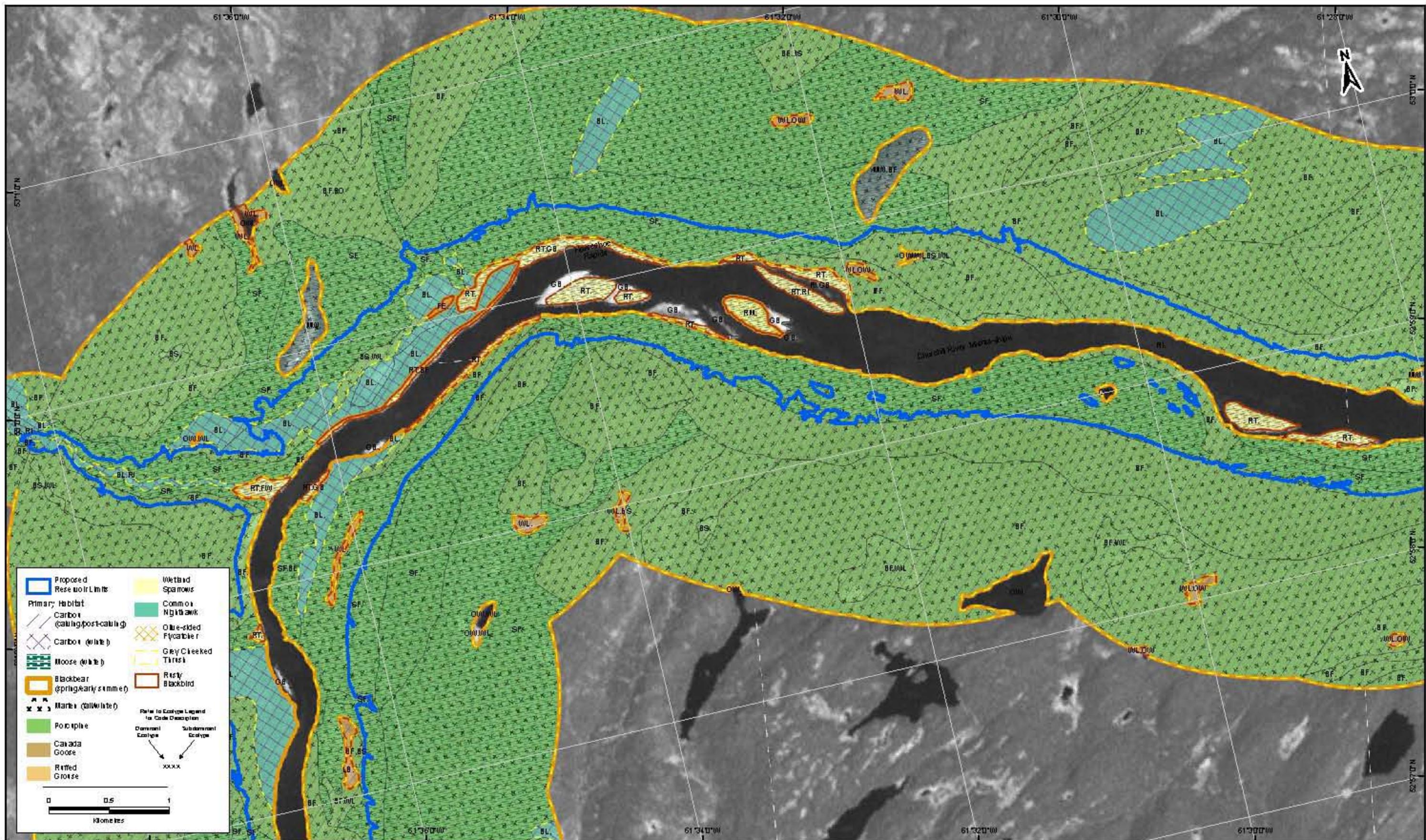
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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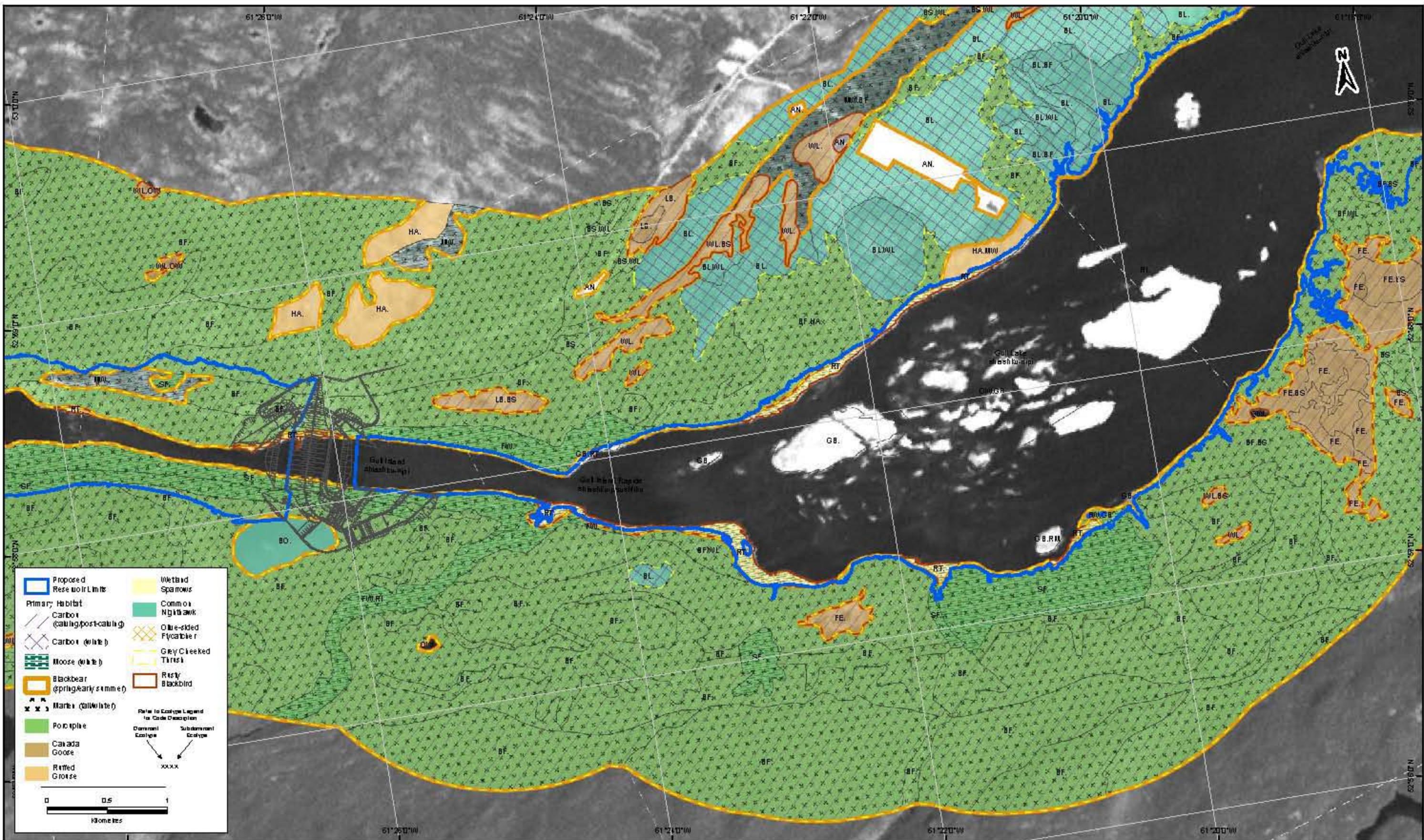
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Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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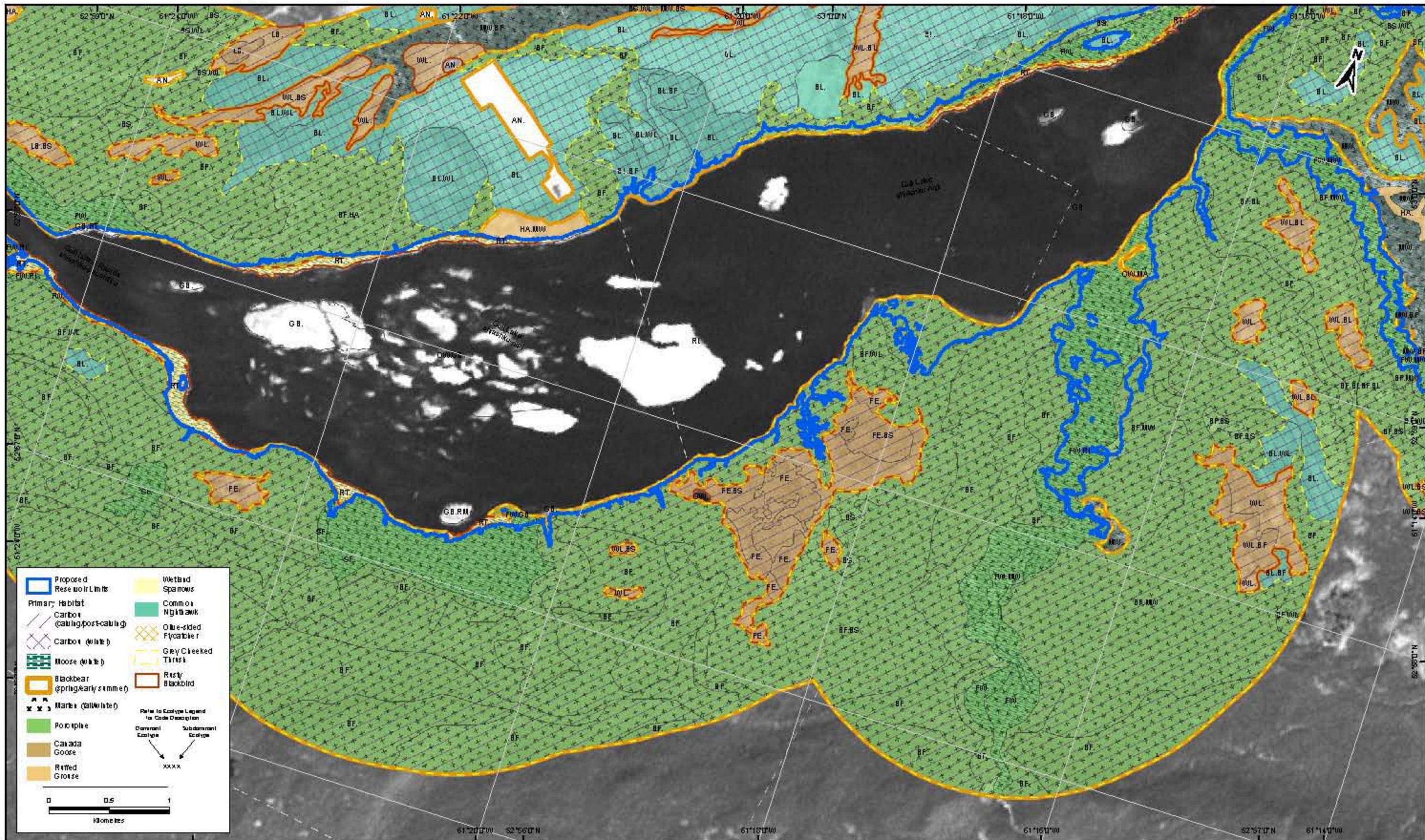
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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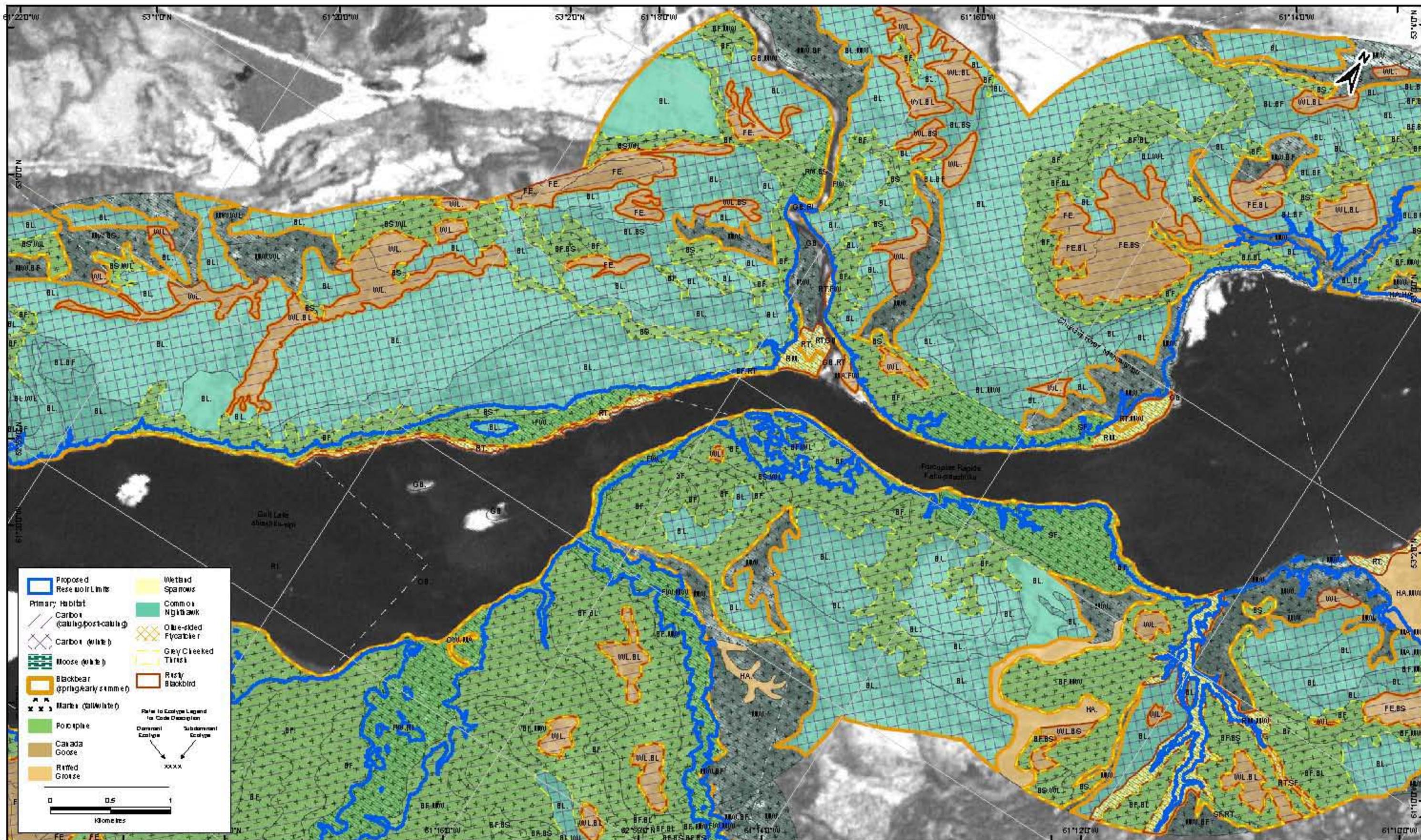
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
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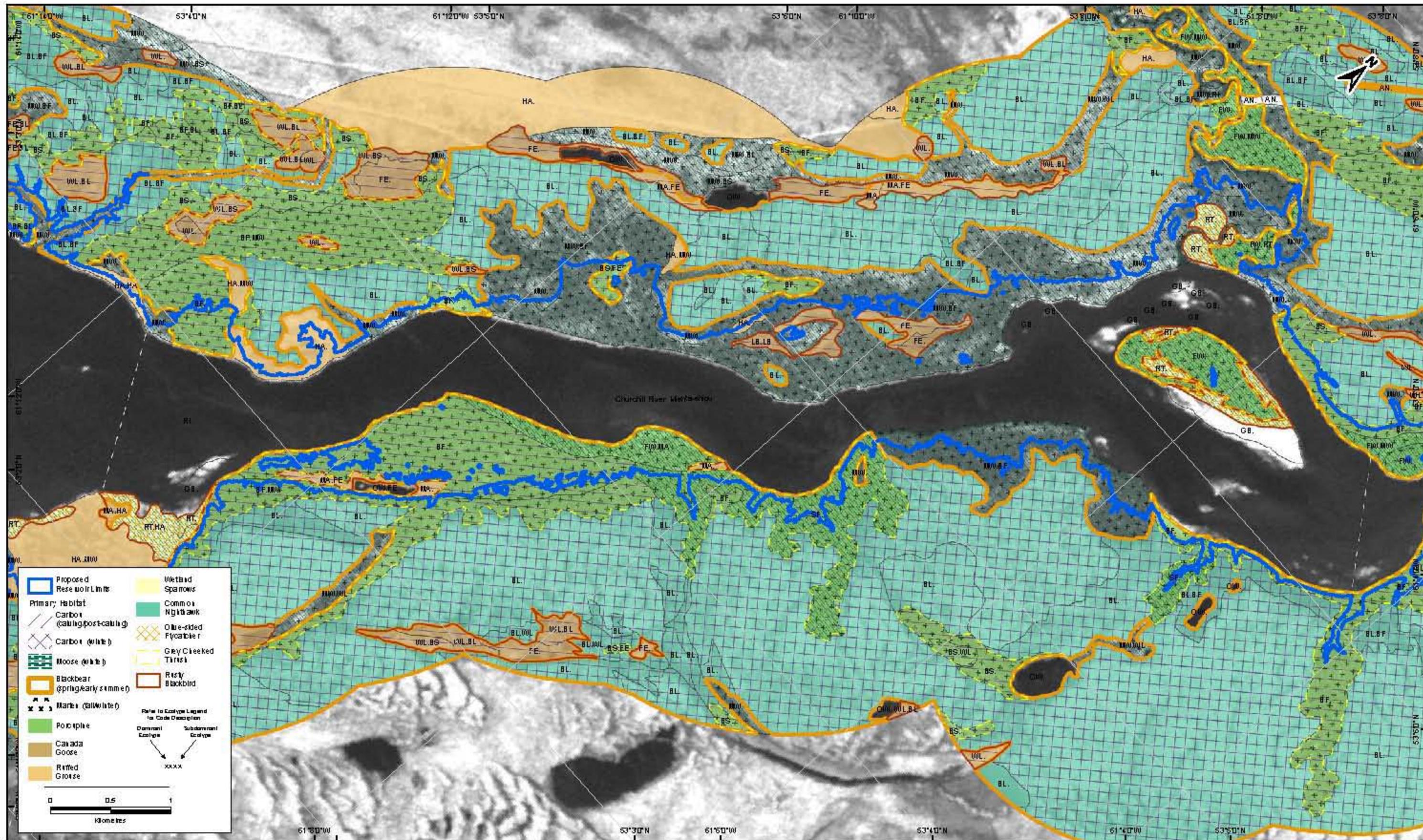
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Primary Habitat for Individual Terrestrial Key Indicators  
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
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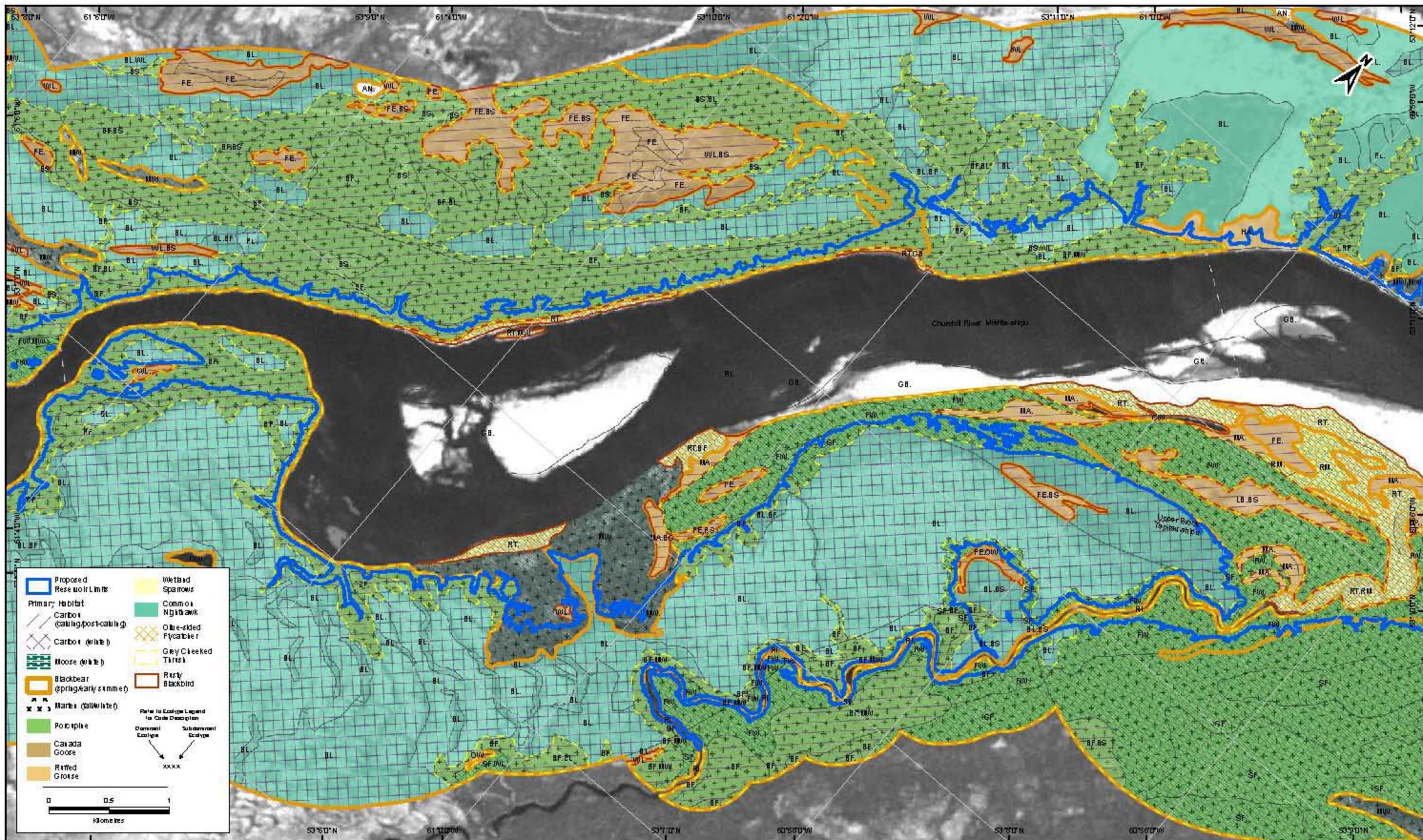
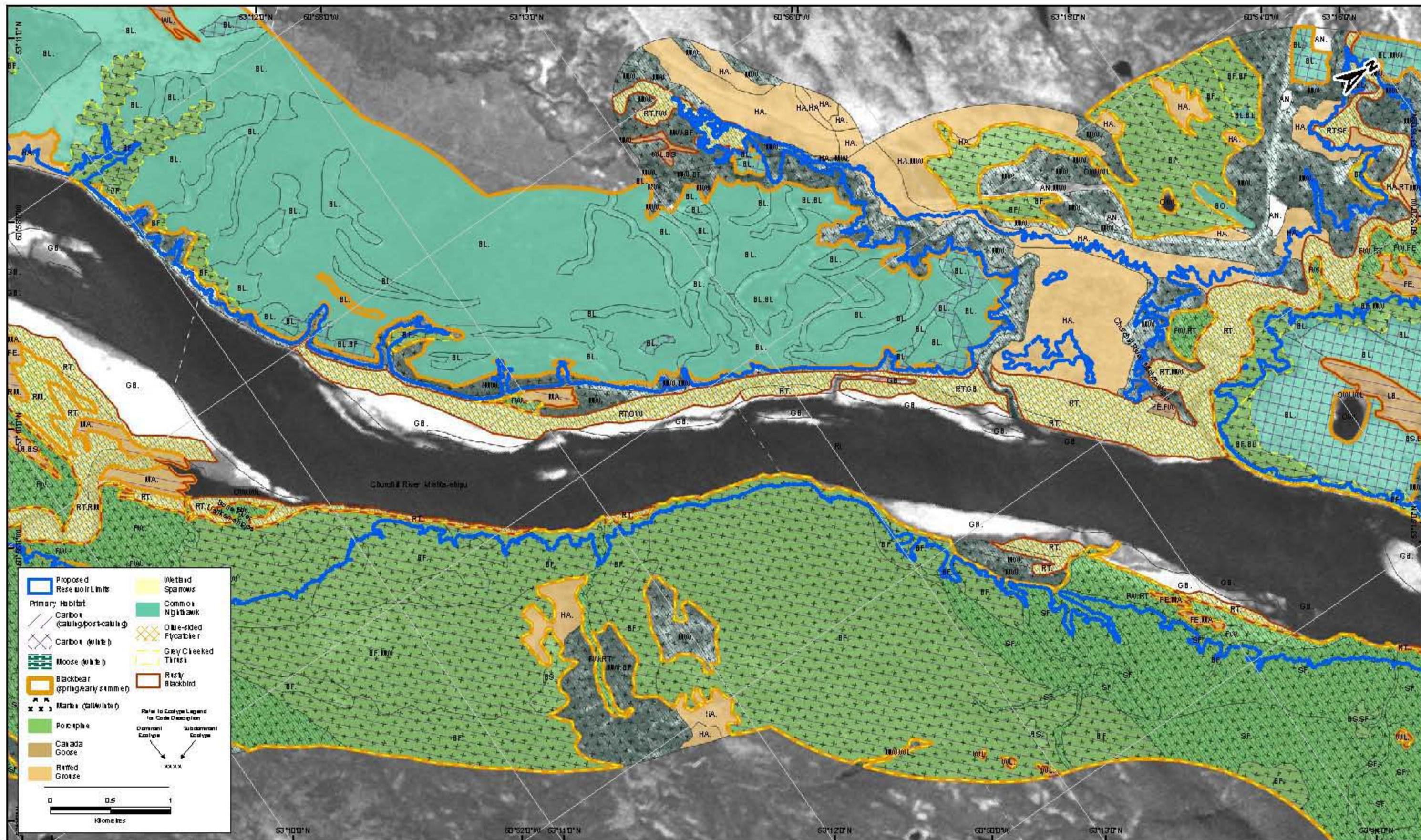


FIGURE NO.: IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
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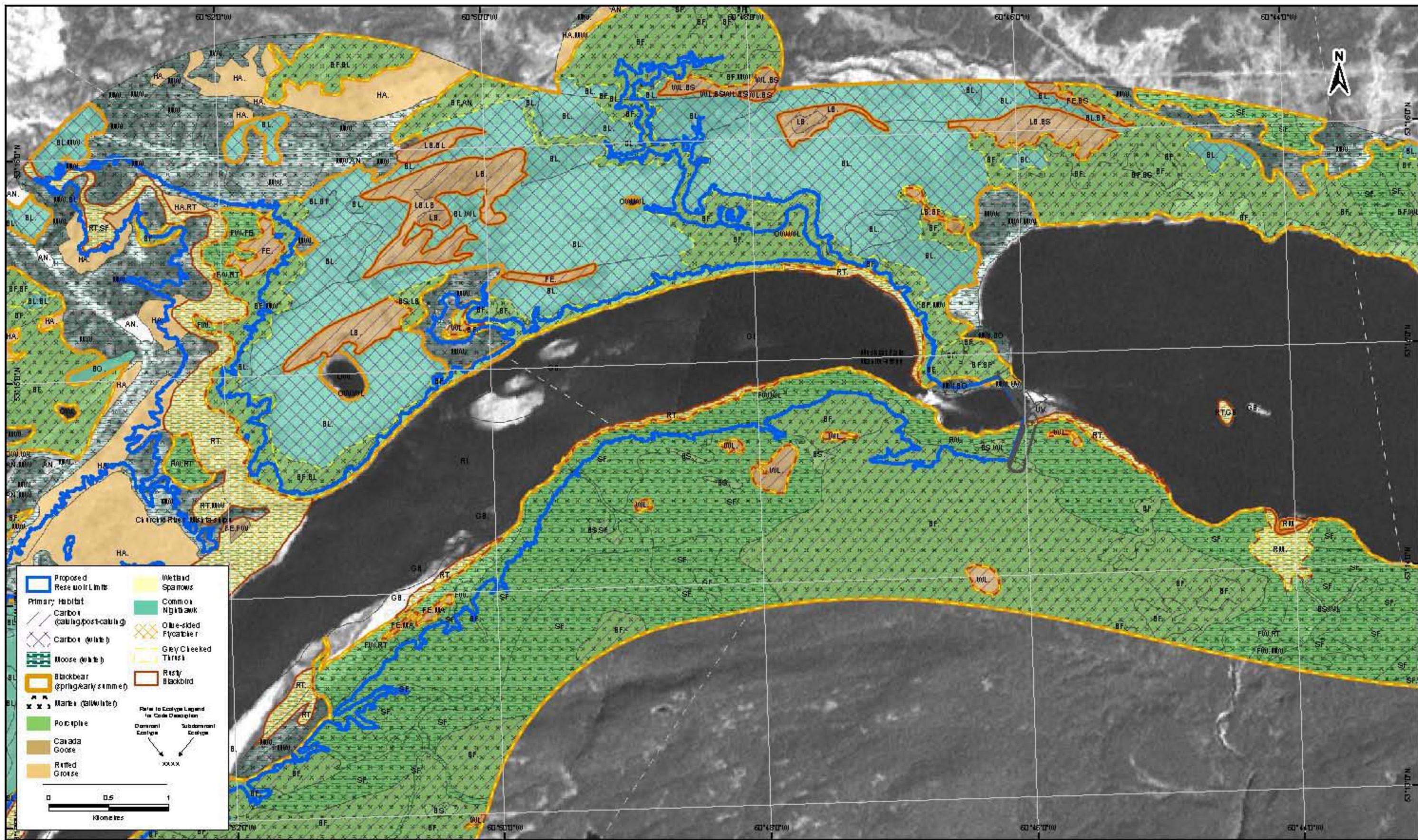
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Primary Habitat for Individual Terrestrial Key Indicators  
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
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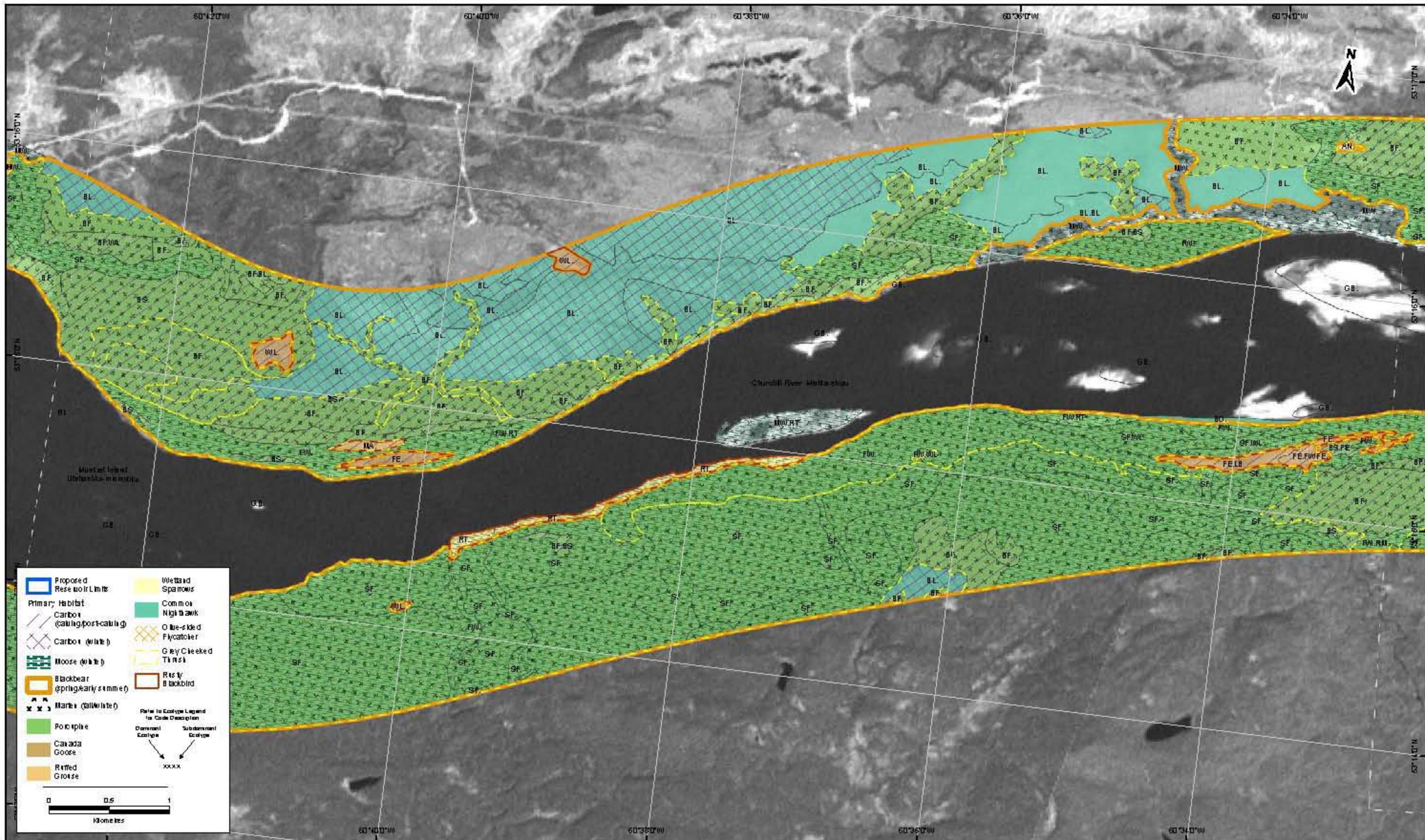
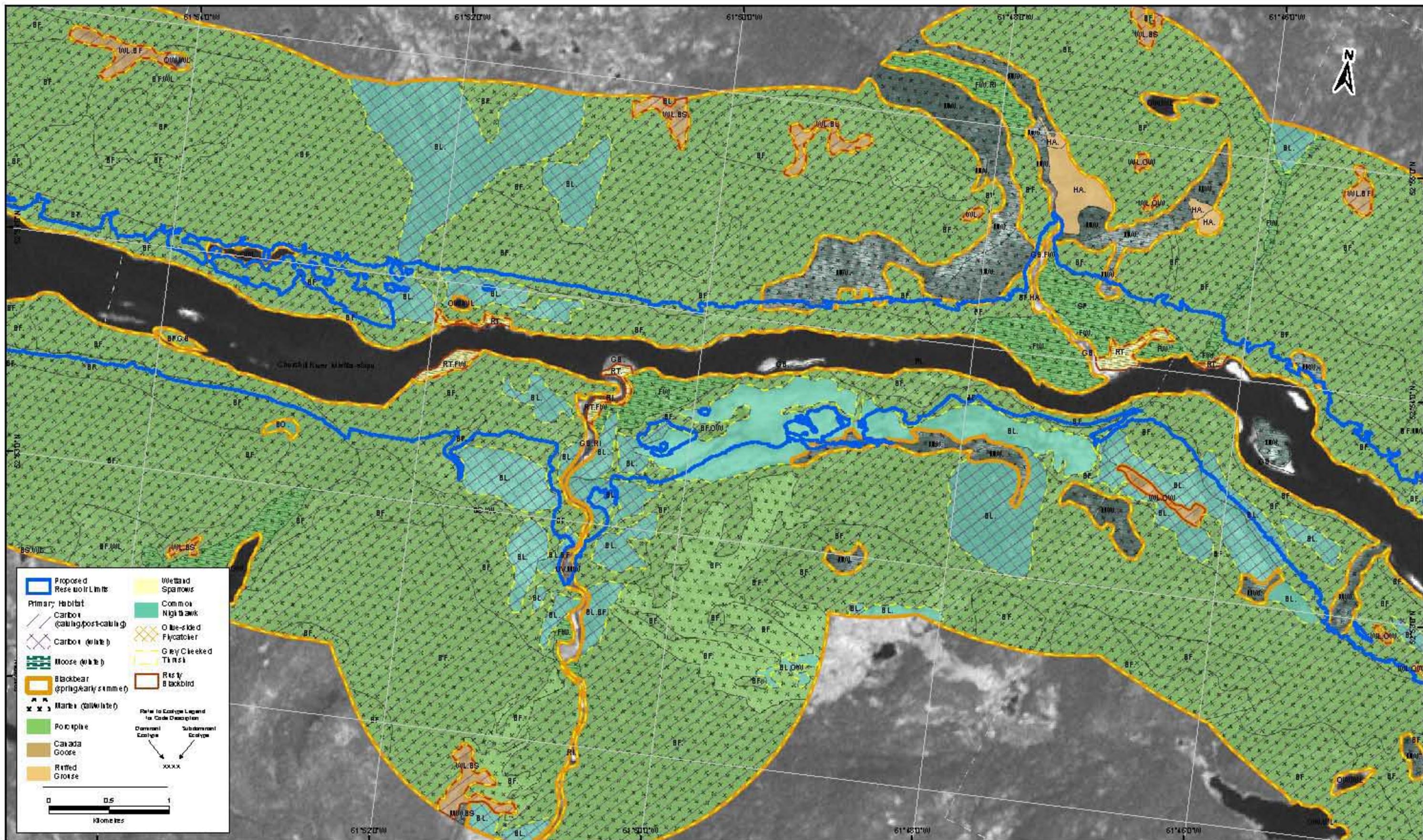


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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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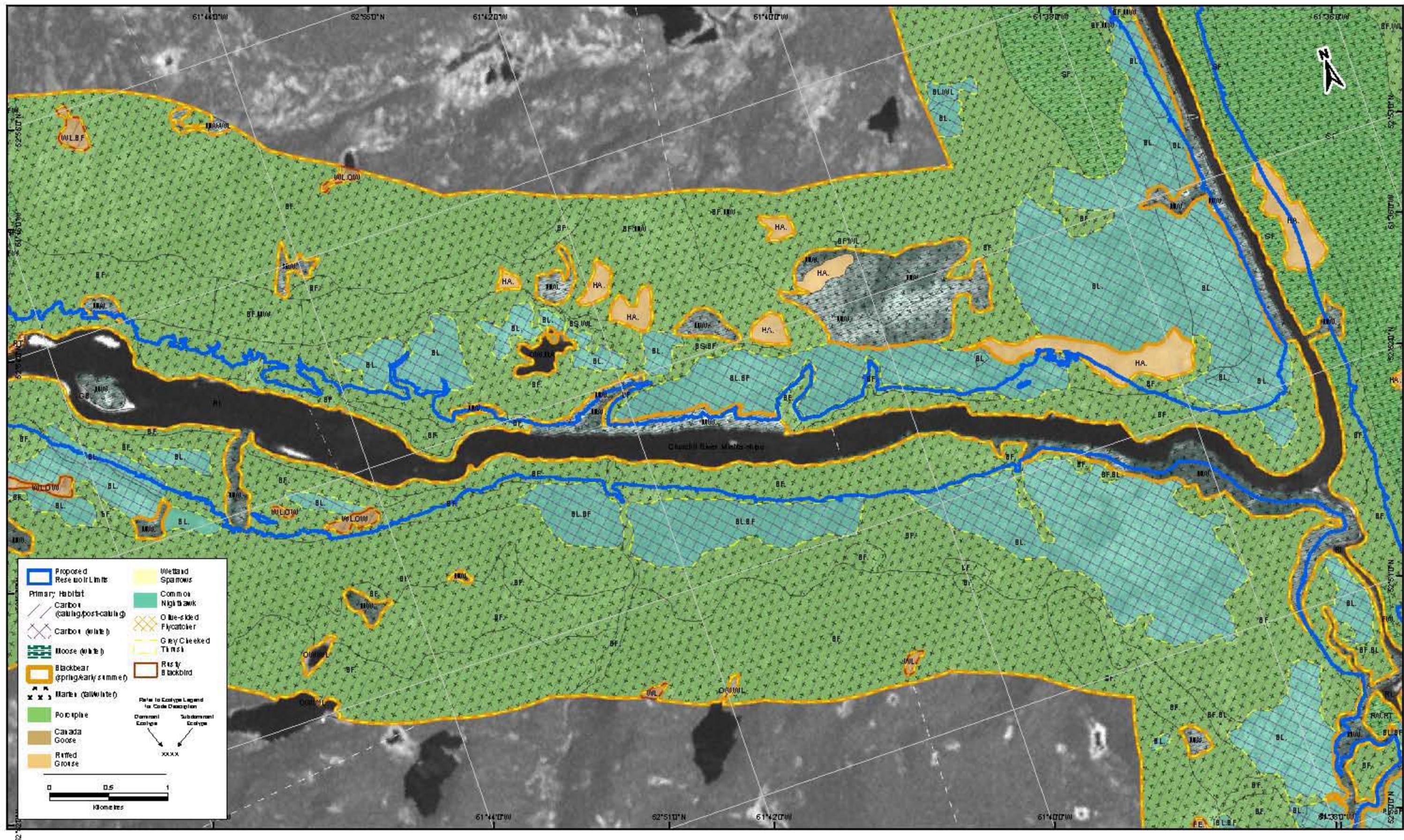


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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Churchill River**

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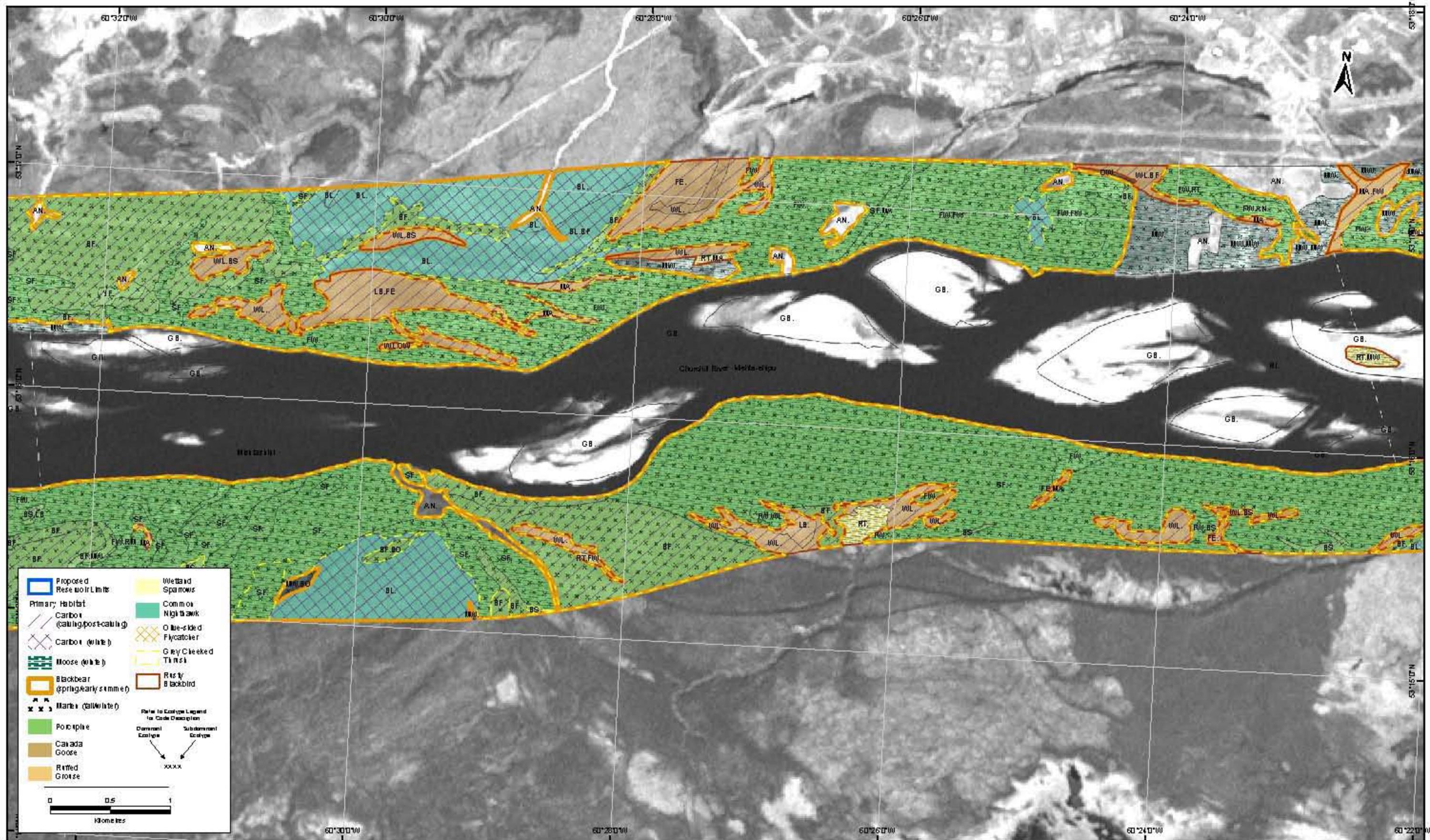


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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Churchill River**

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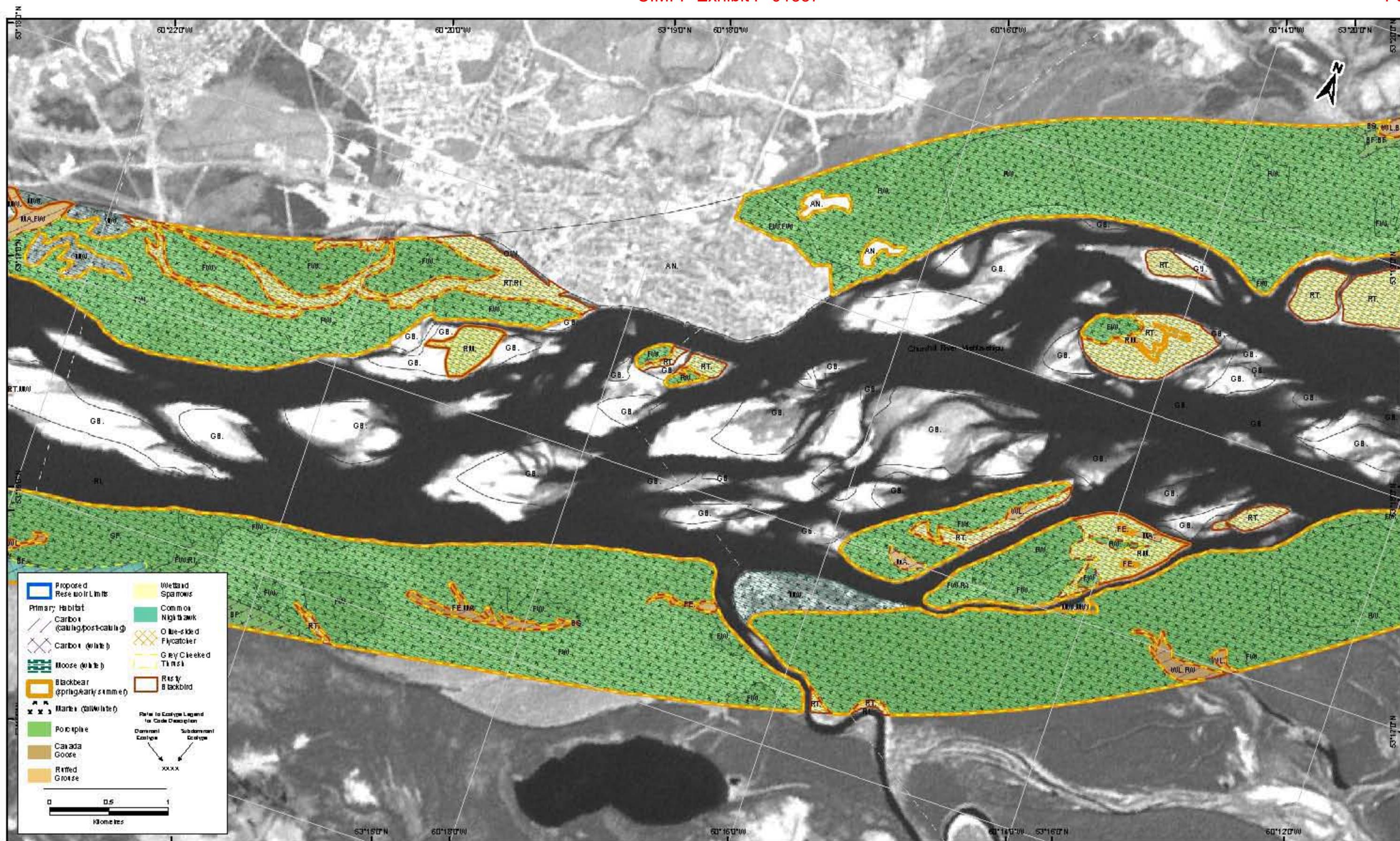
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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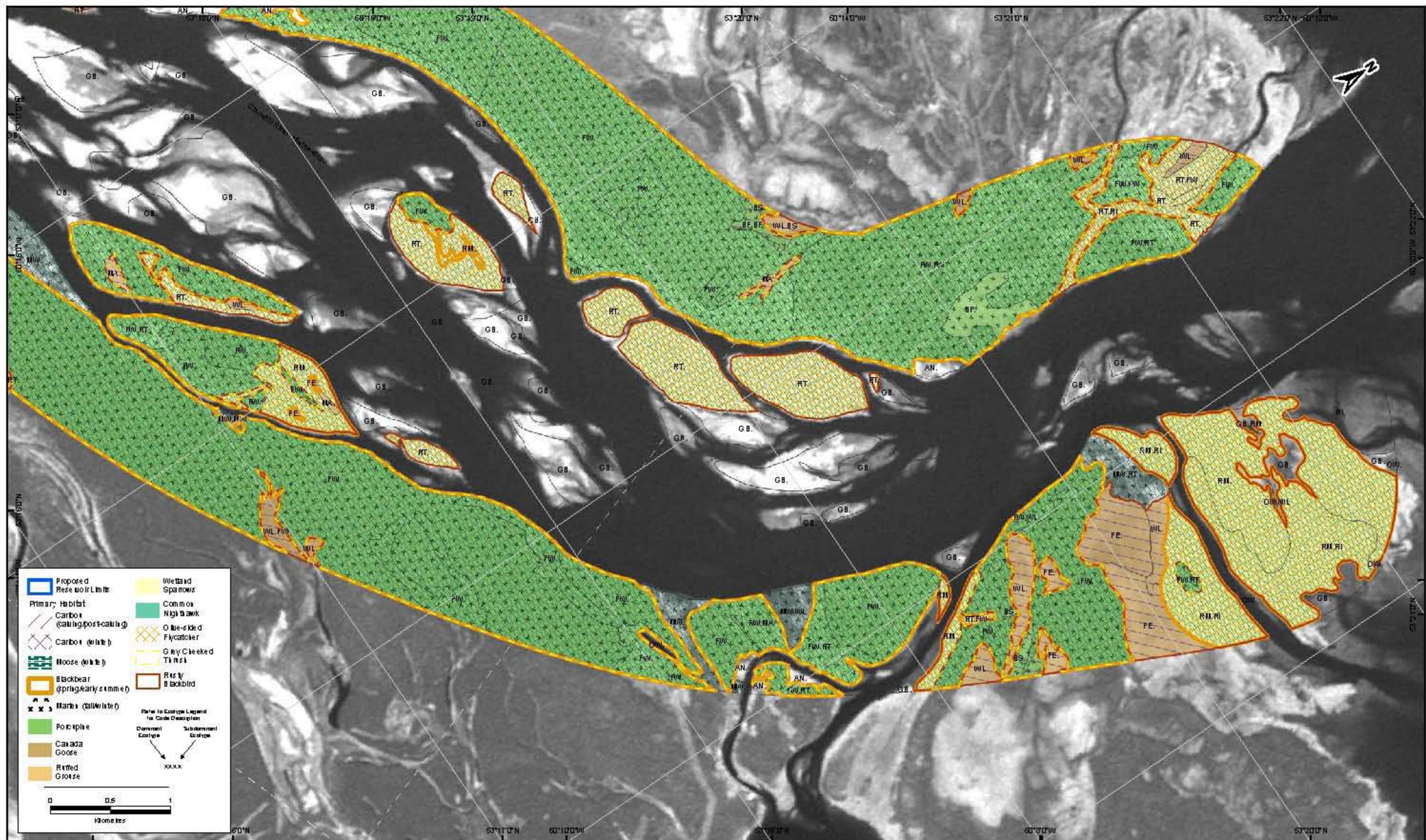
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

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IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Churchill River

FIGURE NO: IR#JRP15-32	
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ELC Code	Ecotype Name	ELC Code	Ecotype Name
AN	Anthropogenic	LB	Low Shrub Bog
BF	Black Spruce - Feather Moss	MA	Marsh
BL	Black Spruce - Lichen Woodland	MW	Mixedwood
BO	Black Spruce on Outcropping	OW	Open Water
BS	Black Spruce - Sphagnum Woodland	RI	River
FE	Fen	RM	Riparian Meadow
FW	Fir/White Spruce Woodland	RT	Riparian Thicket
GB	Gravel Bar	SF	Spruce/Fir Feathemoss
HA	Hardwood	UV	Unvegetated
		WL	Wetland

	IR JRP.15
	Composite Mapping (Terrestrial Environment) Ecotype Land Classification Legend

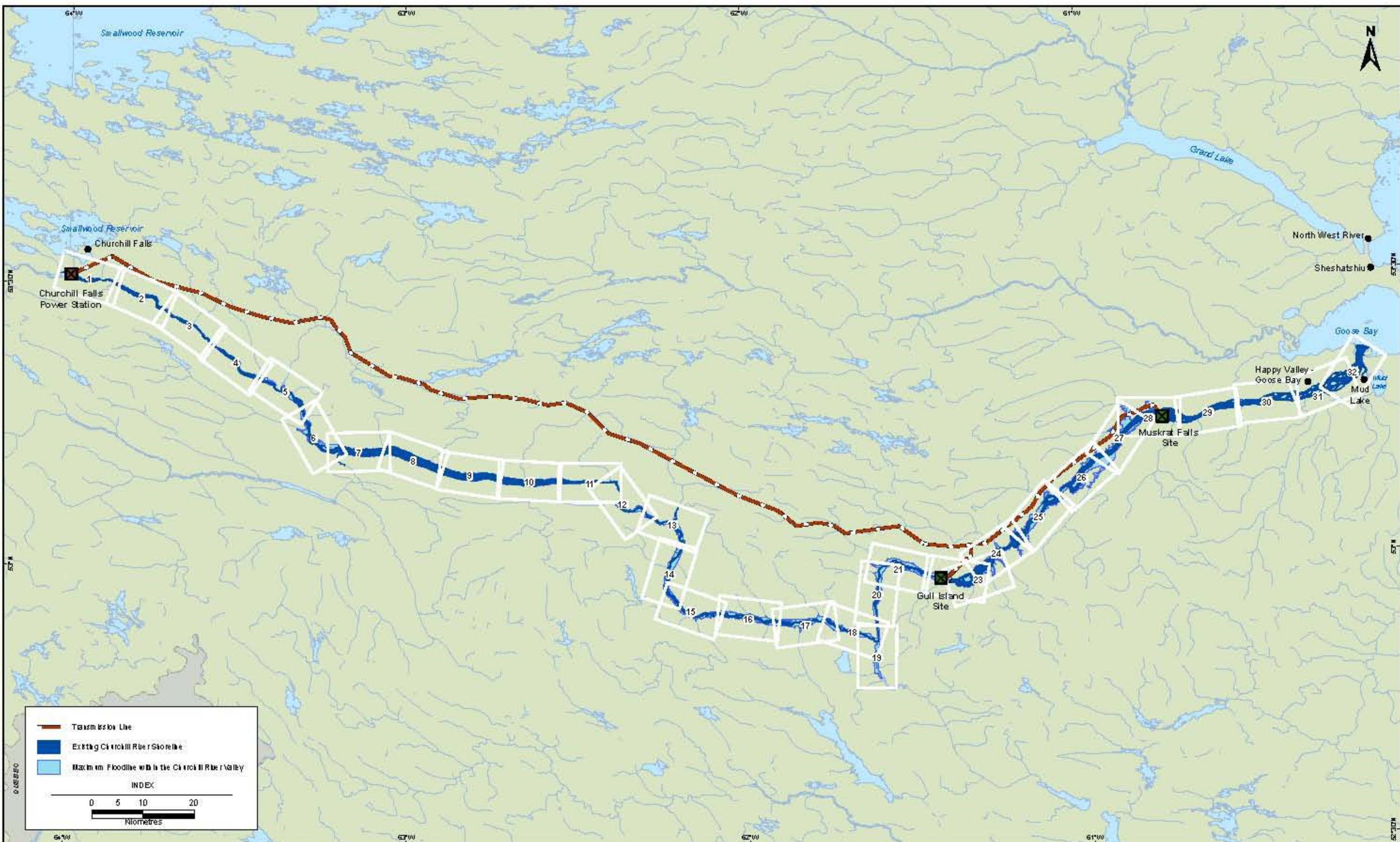


FIGURE NO:	IR JRP.15 Composite Mapping of Primary Habitat for Terrestrial Key Indicators for Churchill River Valley - Index	DRAFT DATE: 22/05/2009
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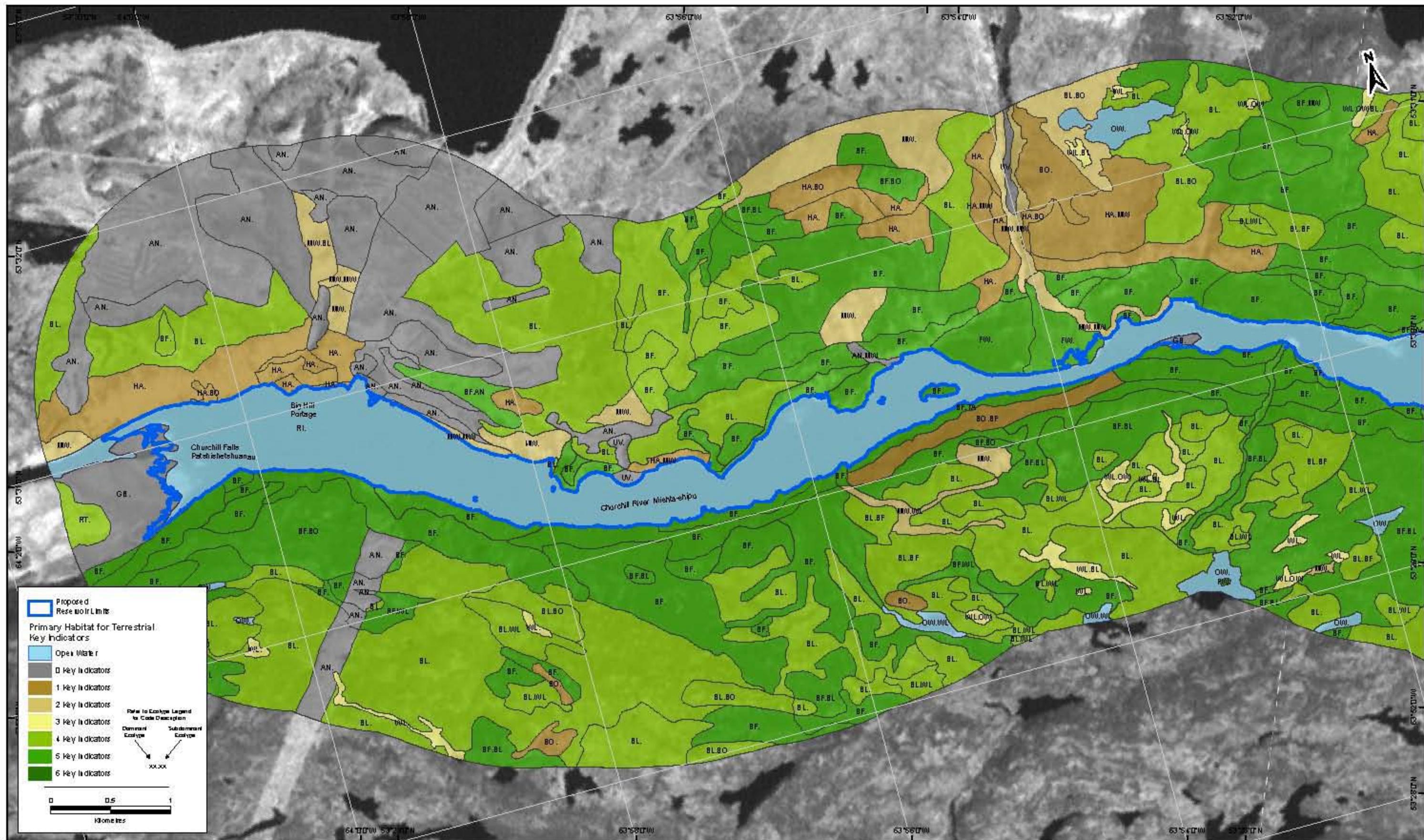


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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

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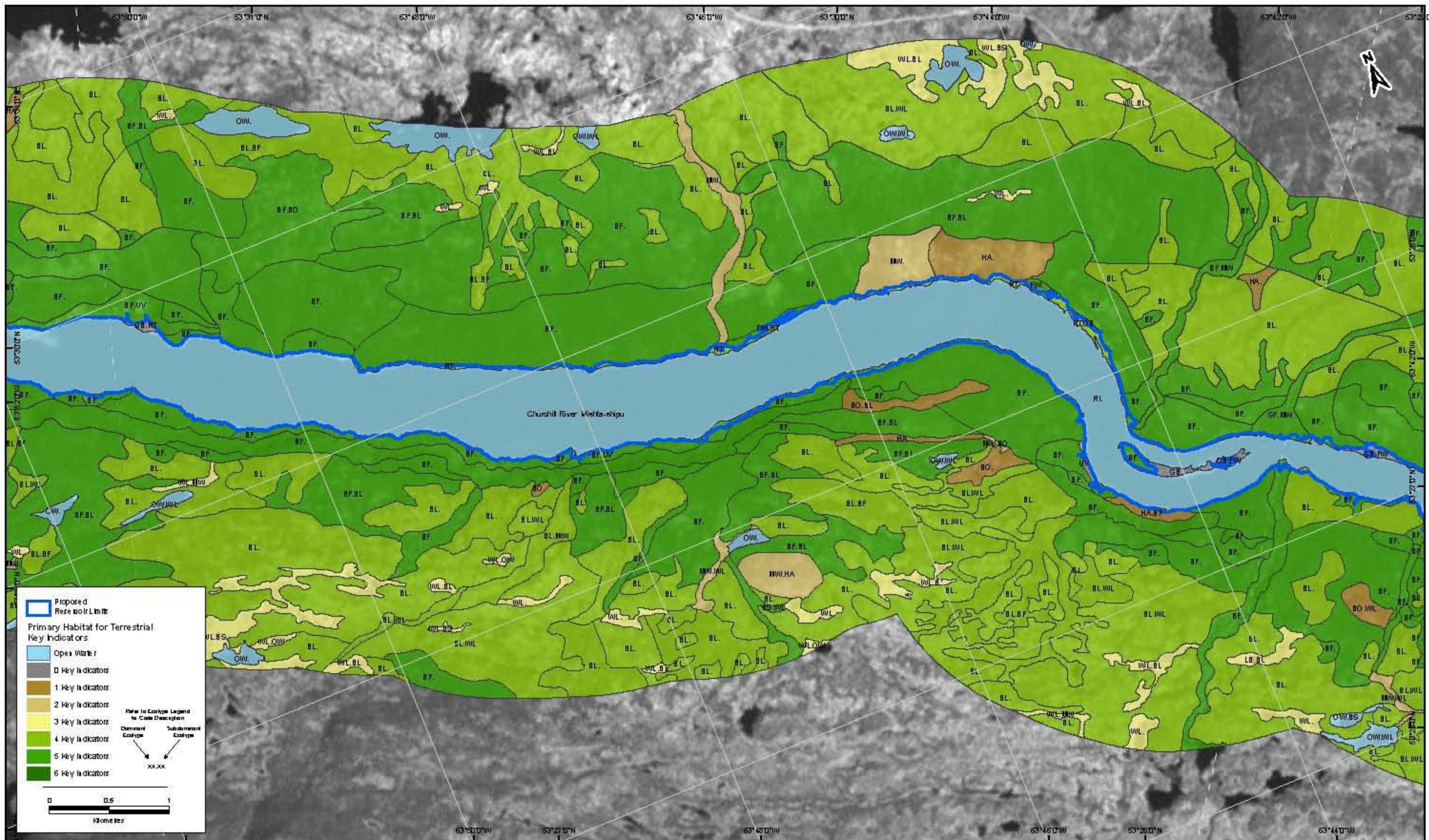


FIGURE NO:	IR#JRP15-2
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

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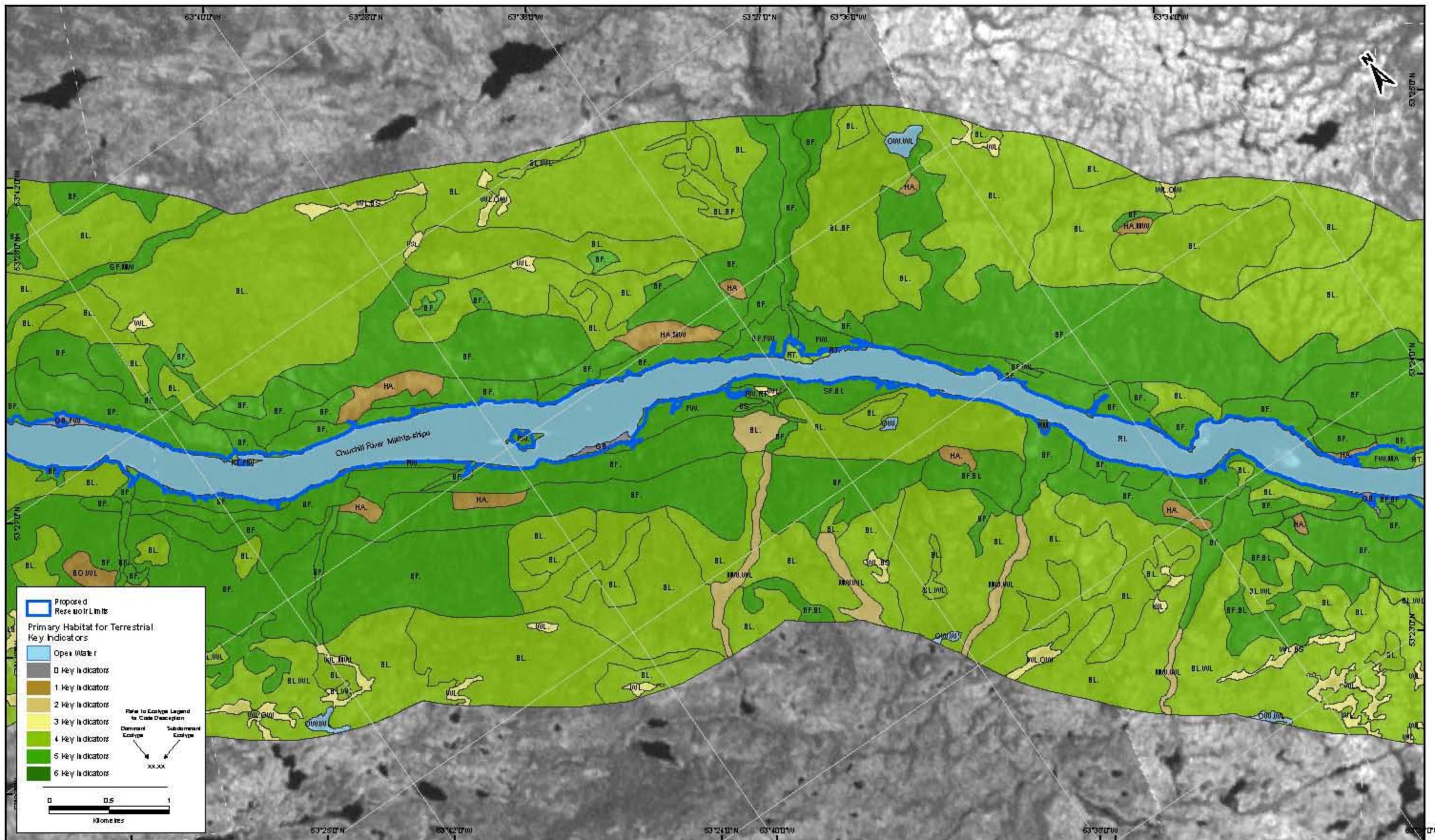


FIGURE NO:	IR#JRP15-3
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

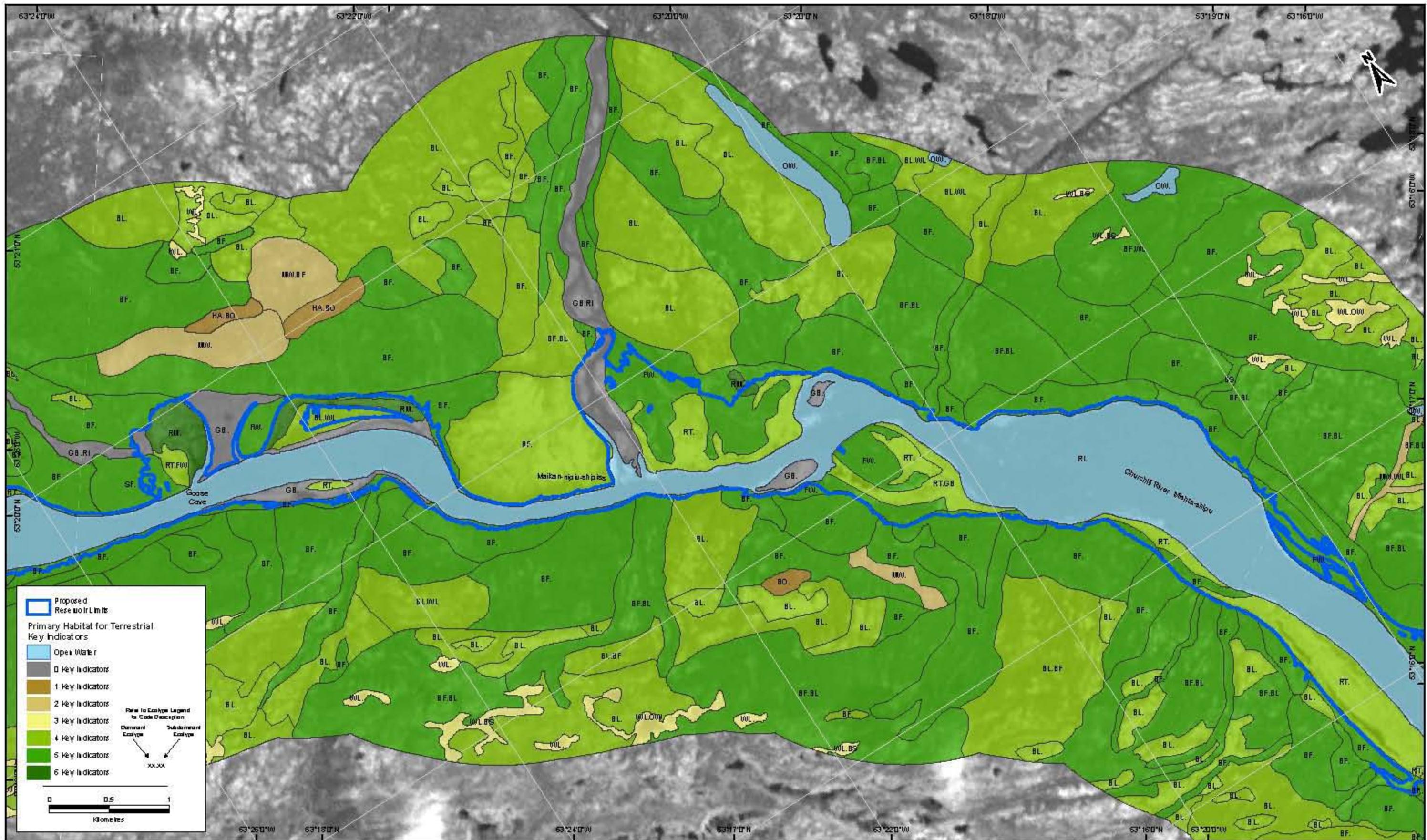
DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009



FIGURE NO:	IR#JRP15-4
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009



**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

FIGURE NO: IR#JRP15-5	
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DRFT DATE: 05/26/2009
REVISED DATE: 05/26/2009

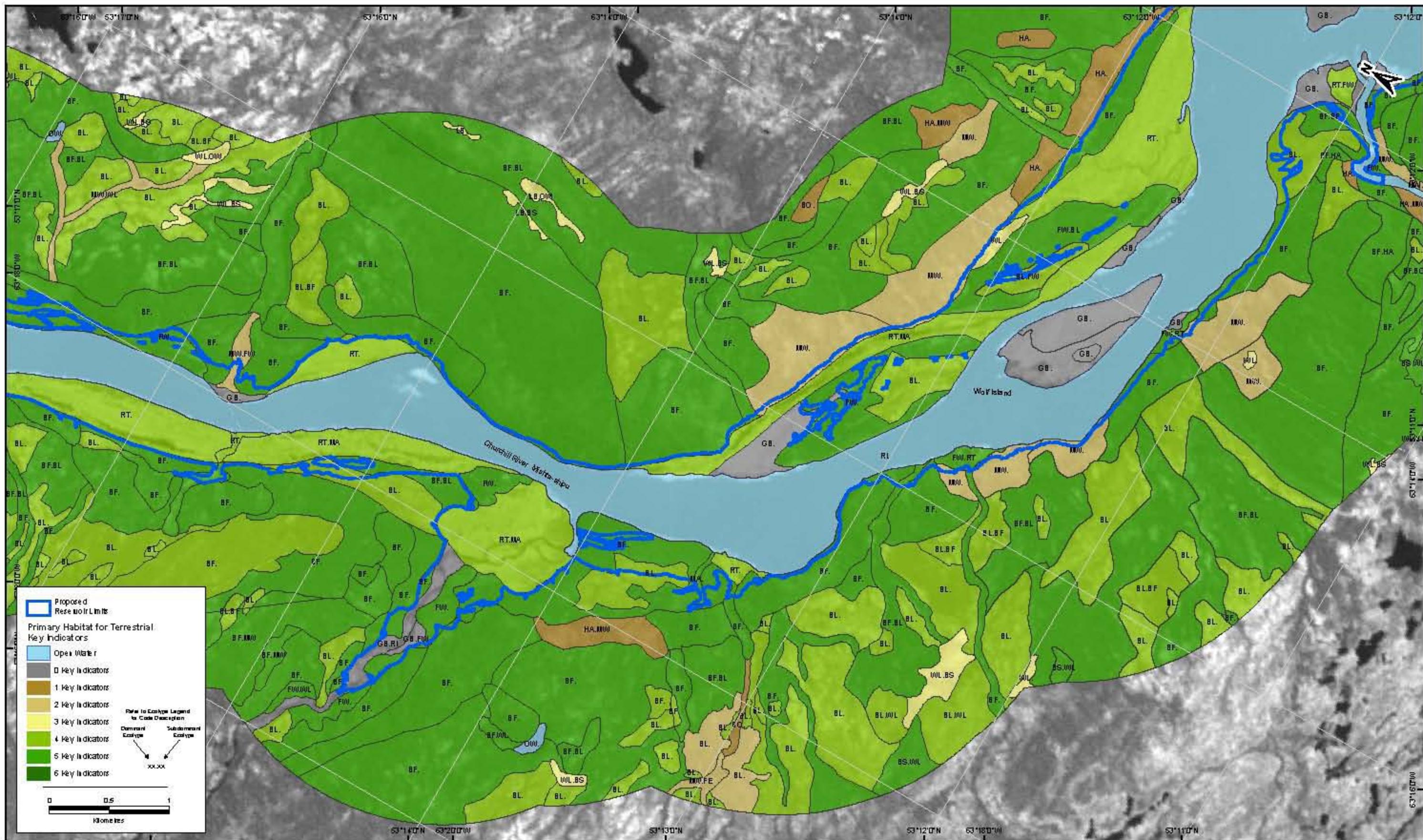


FIGURE NO.	IR#JRP15-6
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DR&PT DATE:	05/26/2009
REVISION DATE:	05/26/2009

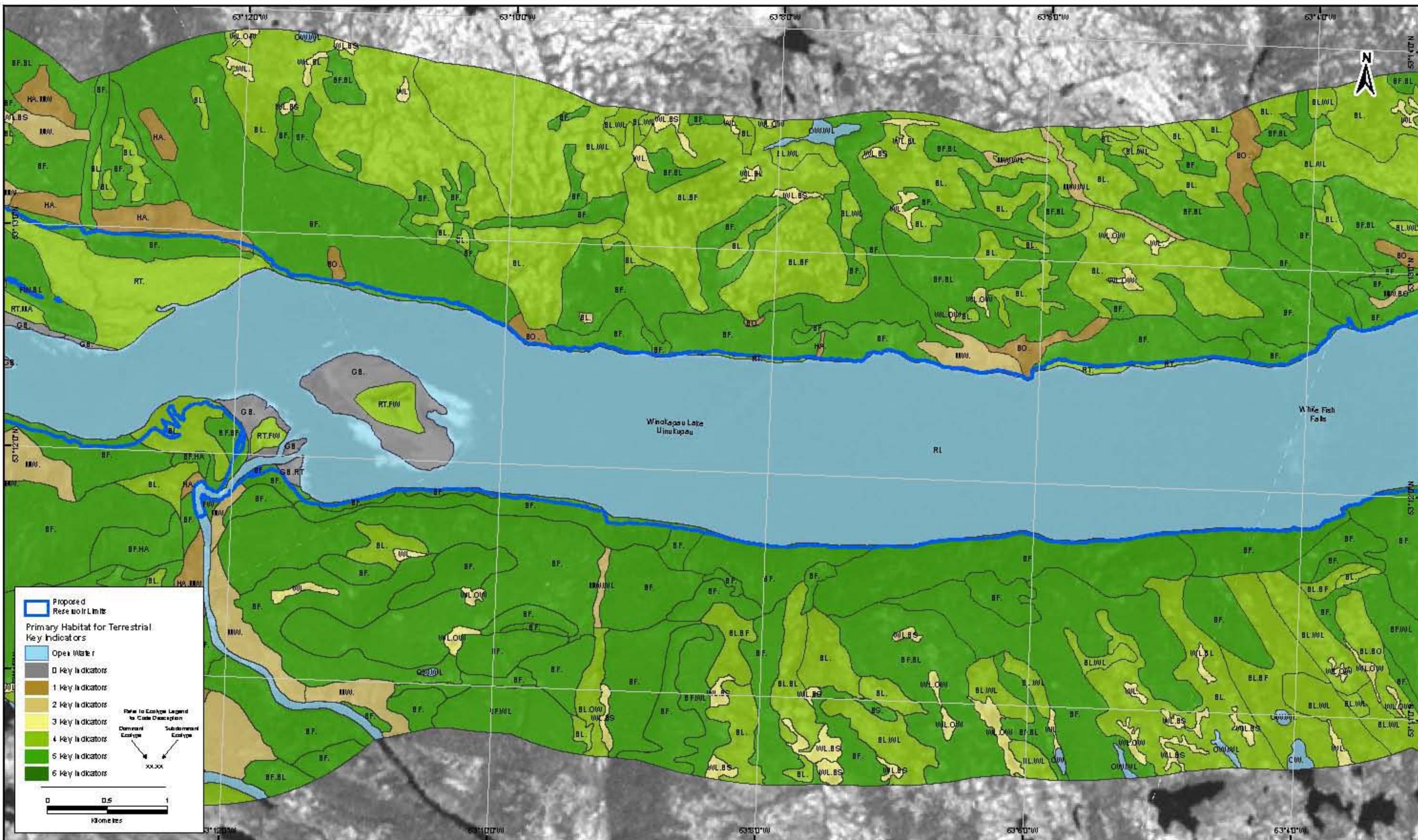


FIGURE NO:	IR#JRP15-7
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

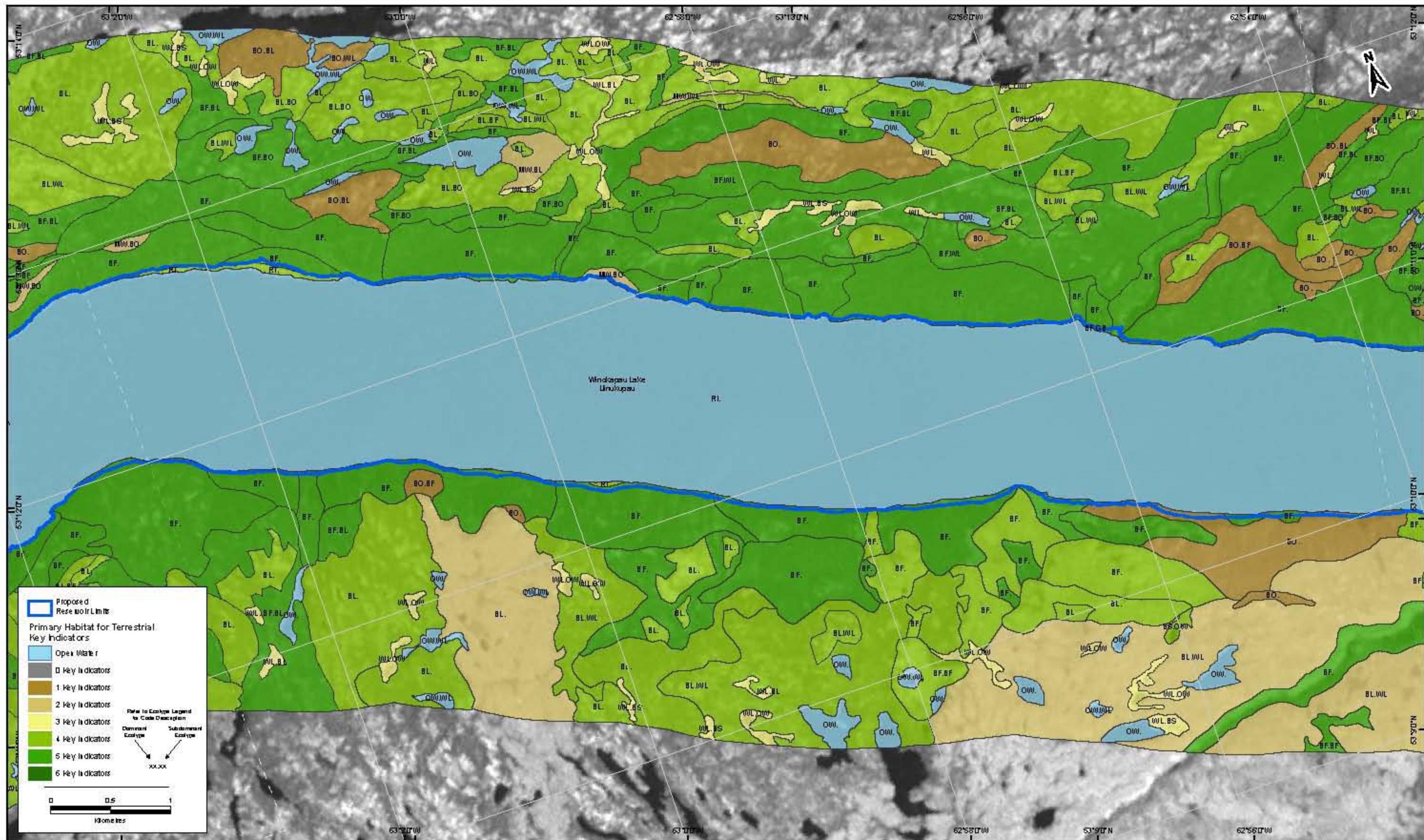


FIGURE NO.	IR#JRP15-8

**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

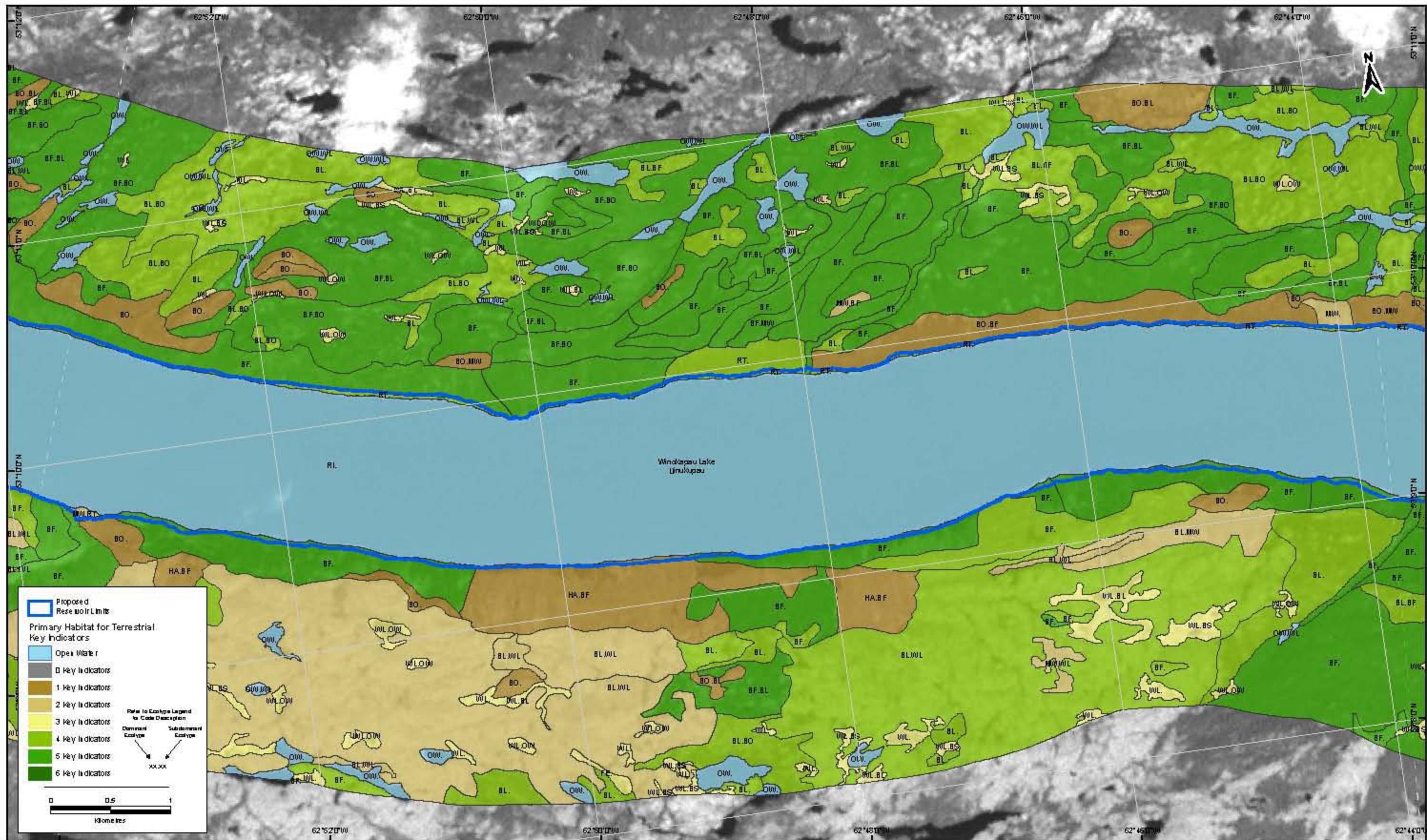


FIGURE NO.	IR#JRP15-9
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

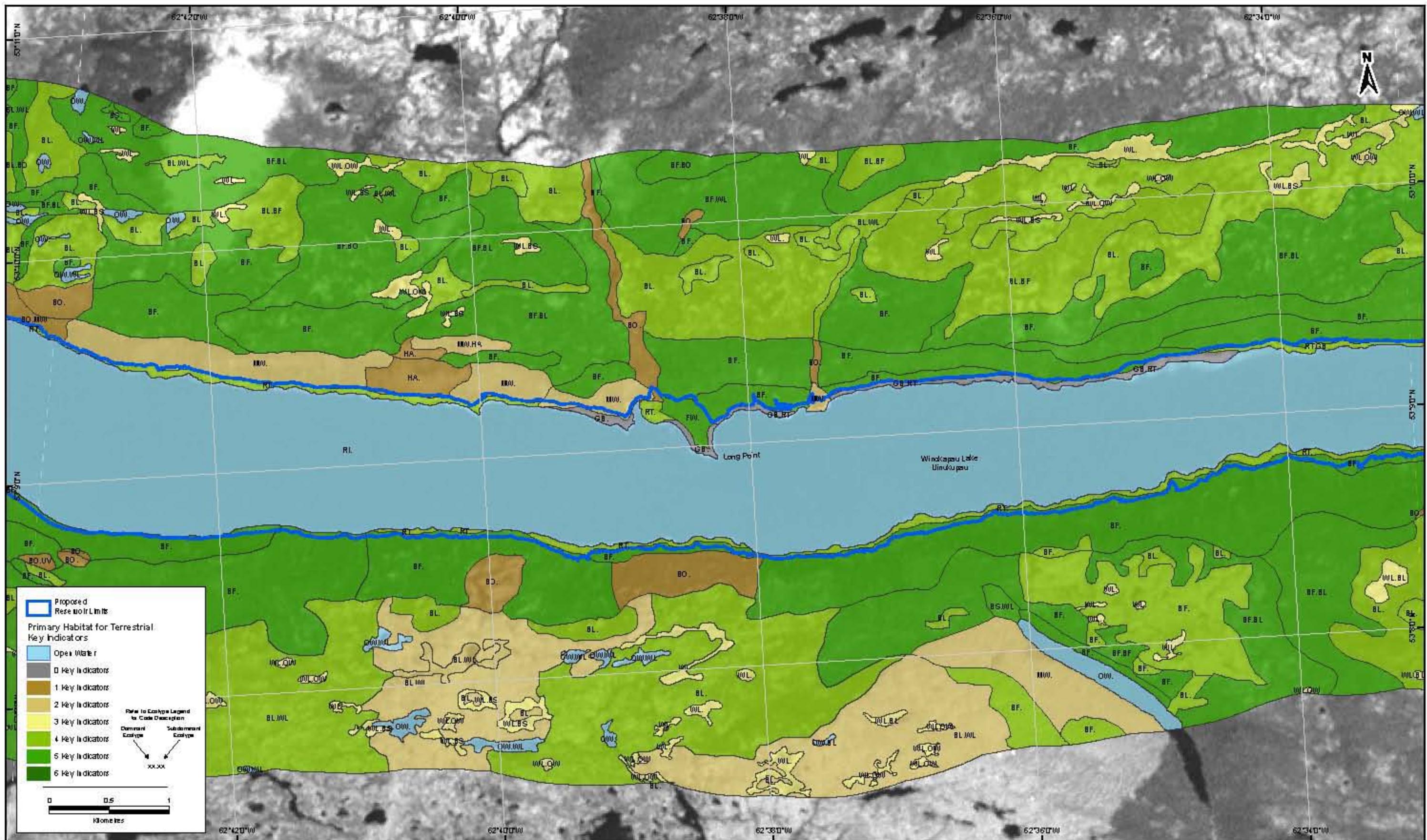


FIGURE NO.	IR#JRP15-10
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

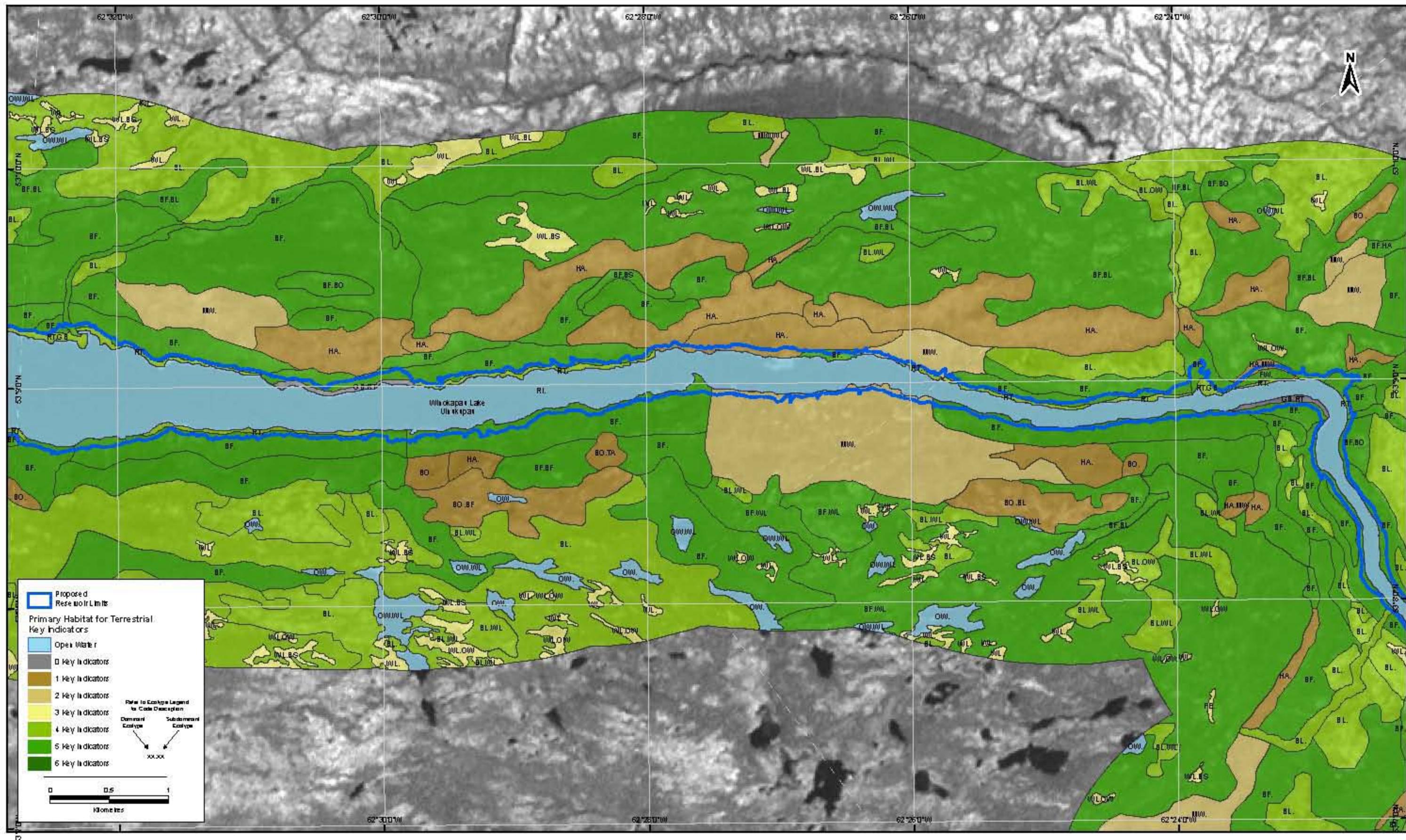


FIGURE NO.	IR#JRP15-11
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2003
REVISION DATE:	05/26/2003

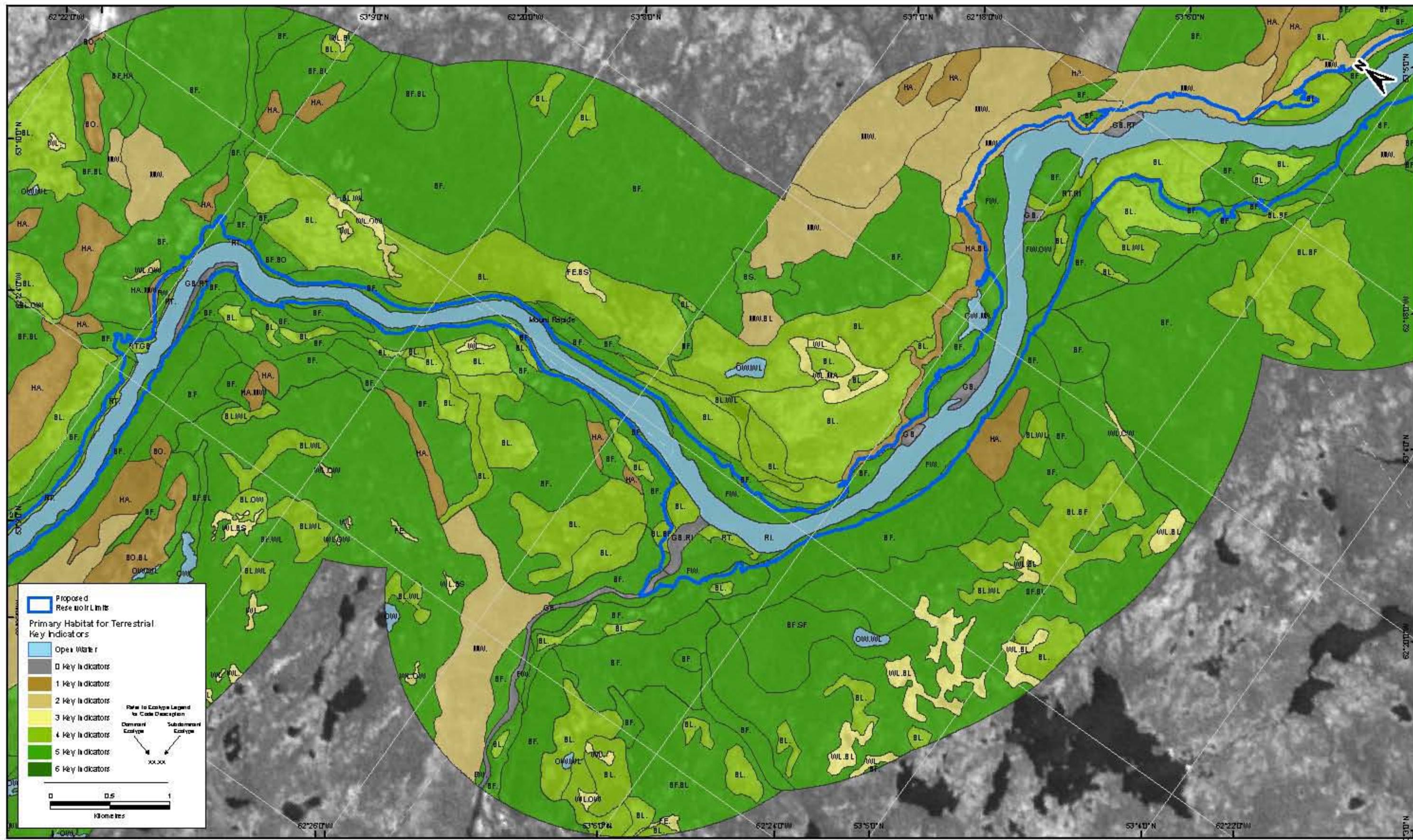


FIGURE NO.	IR#JRP15-12
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DATE	05/26/2009
REVISION DATE:	05/26/2009

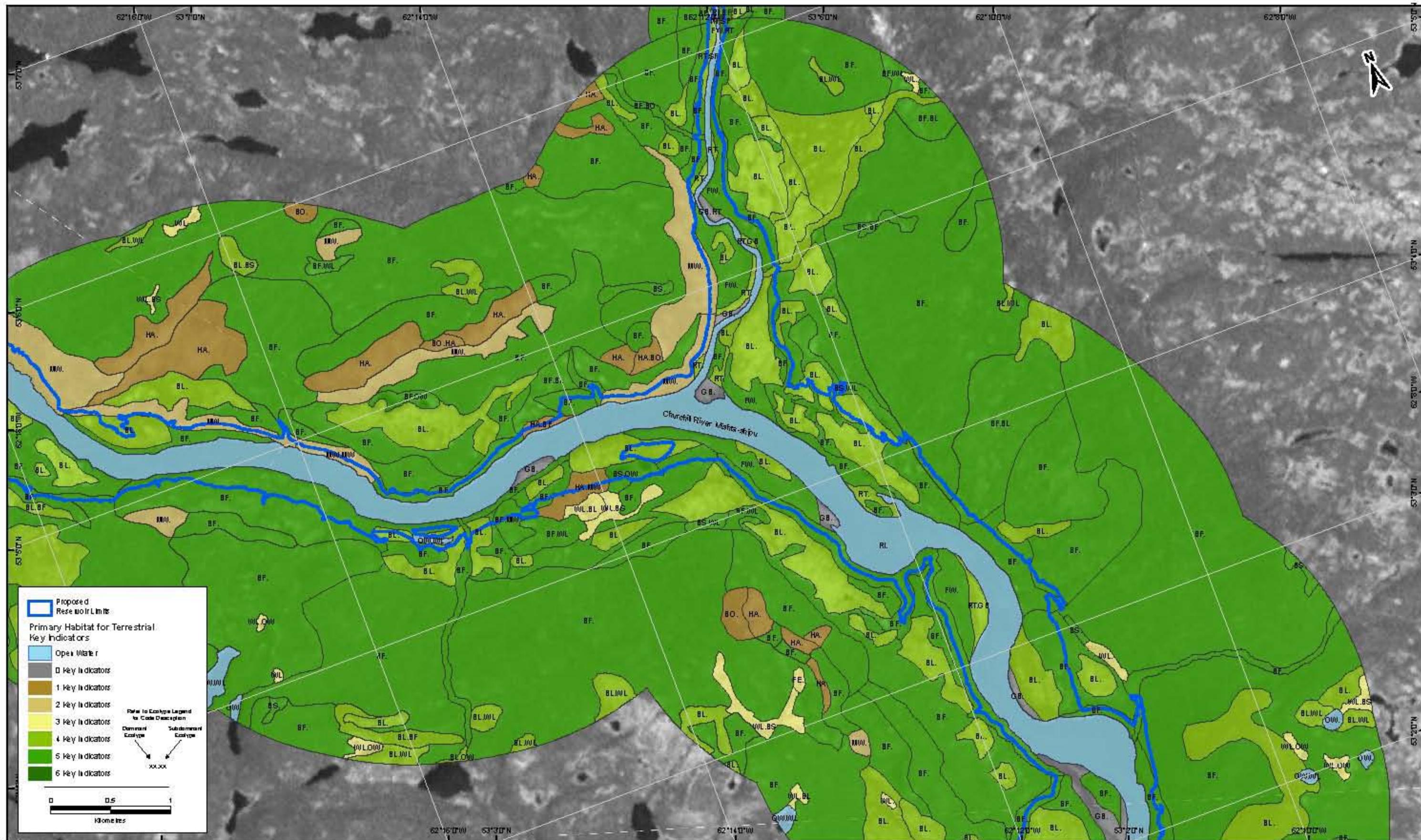


FIGURE NO:	IR#JRP15-13
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DR&PT DATE:	05/26/2009
REVISION DATE:	05/26/2009

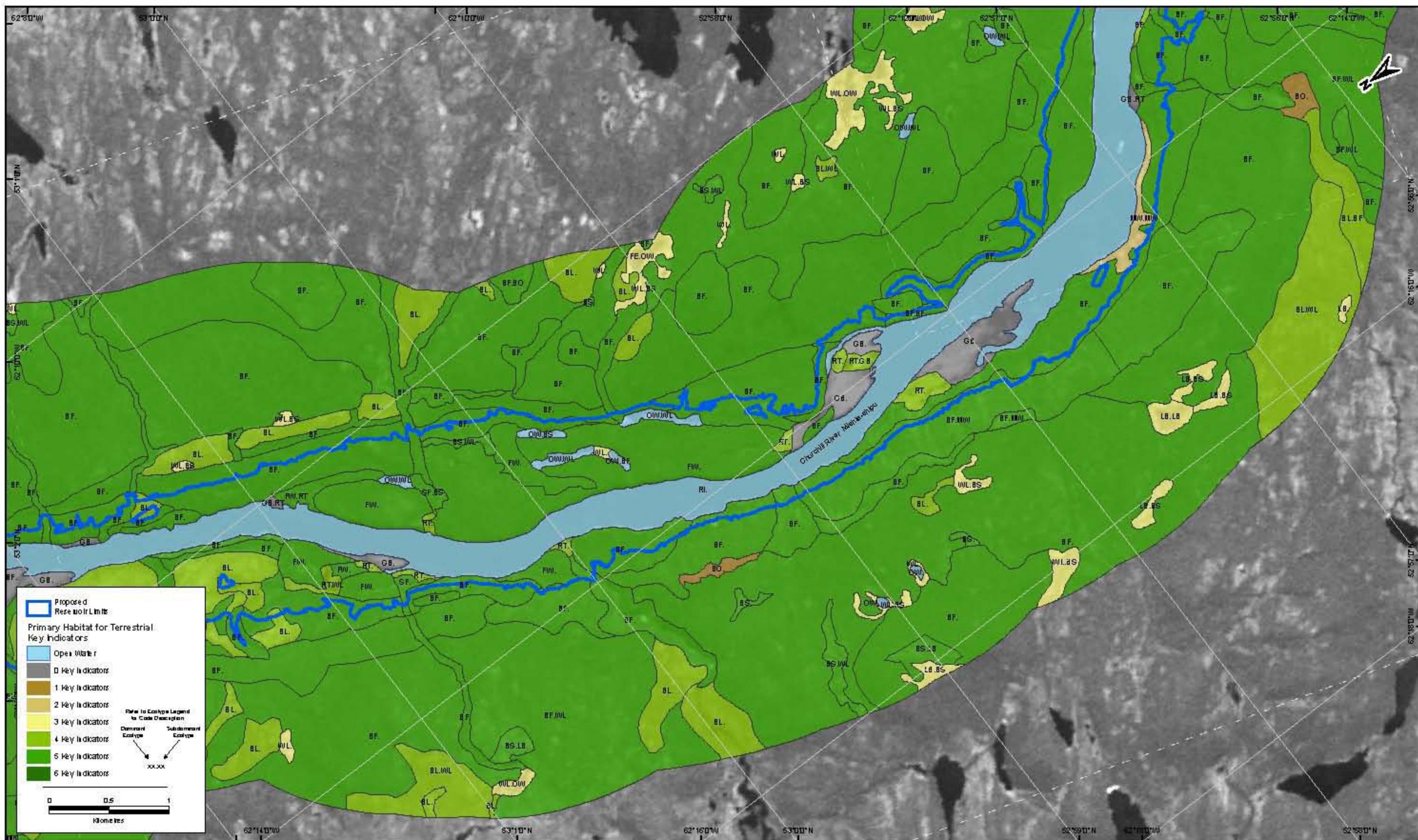


FIGURE NO.: IR#JRP15-14  
IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFTDATE: 05/26/2003  
REVISION DATE: 05/26/2003

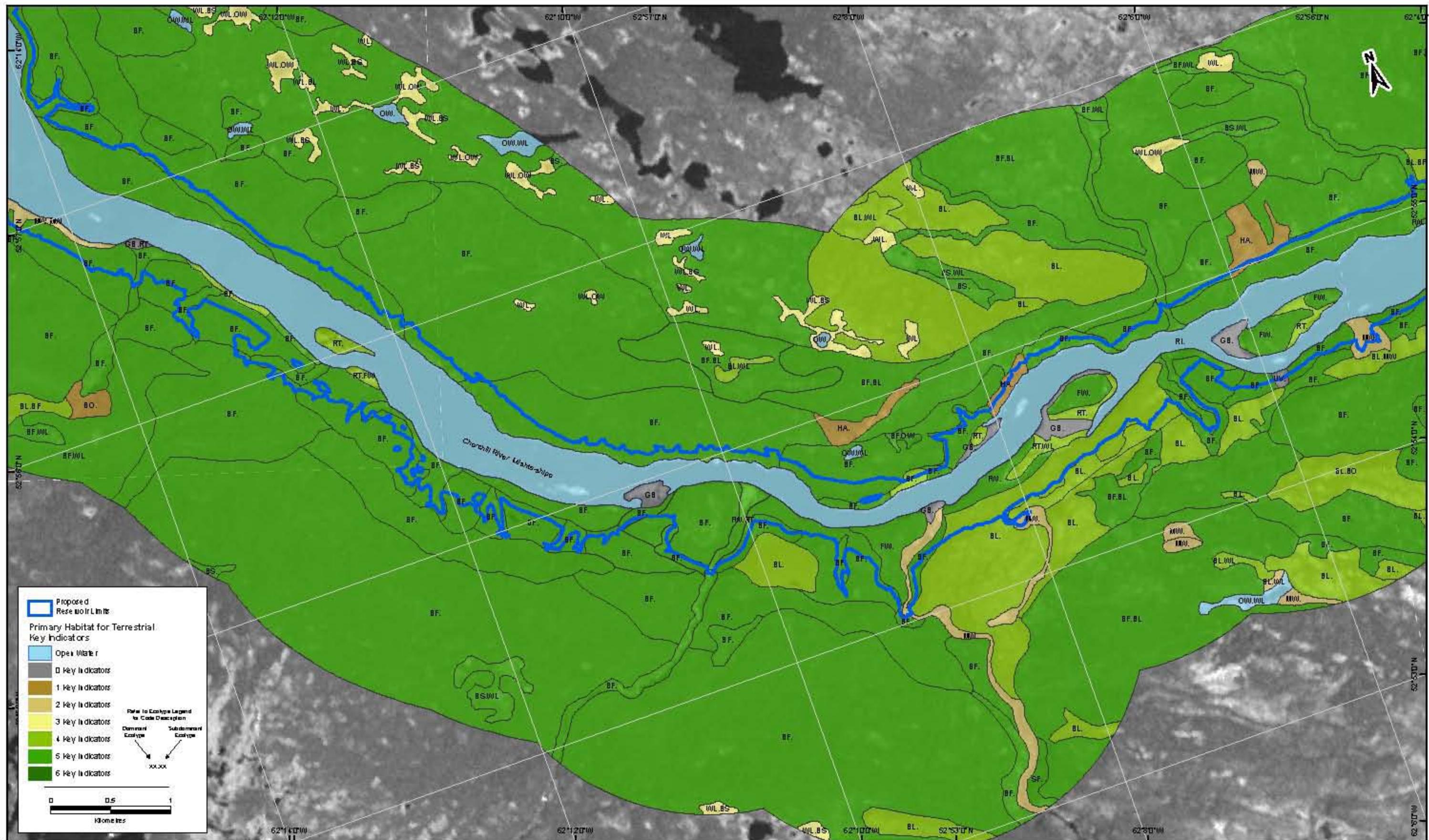


FIGURE NO:  
IR#JRP15-15

IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFTDATE: 05/26/2009  
REVISION DATE: 05/26/2009

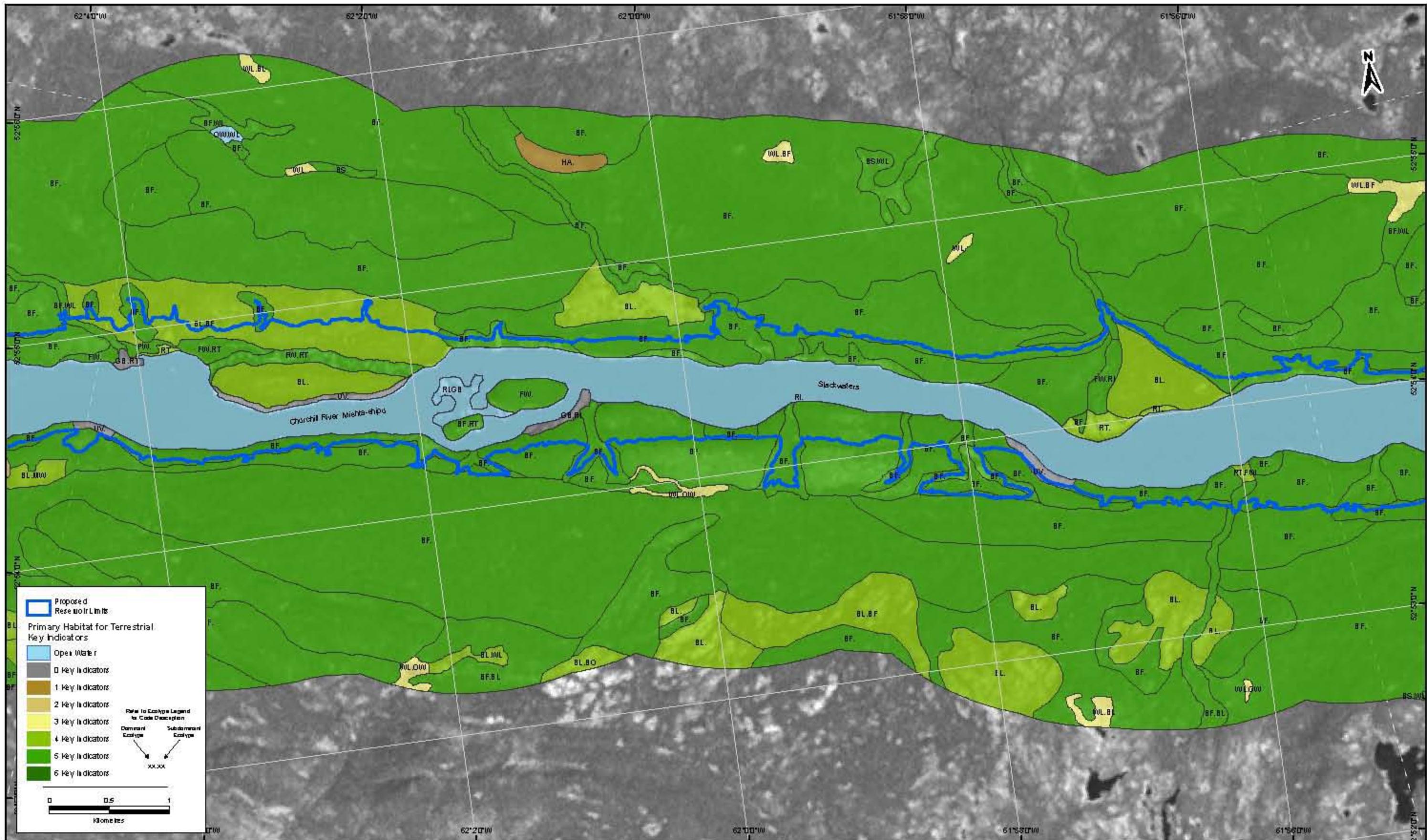


FIGURE NO.	IR#JRP15-16
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DR&PT DATE:	05/26/2009
REVISION DATE:	05/26/2009

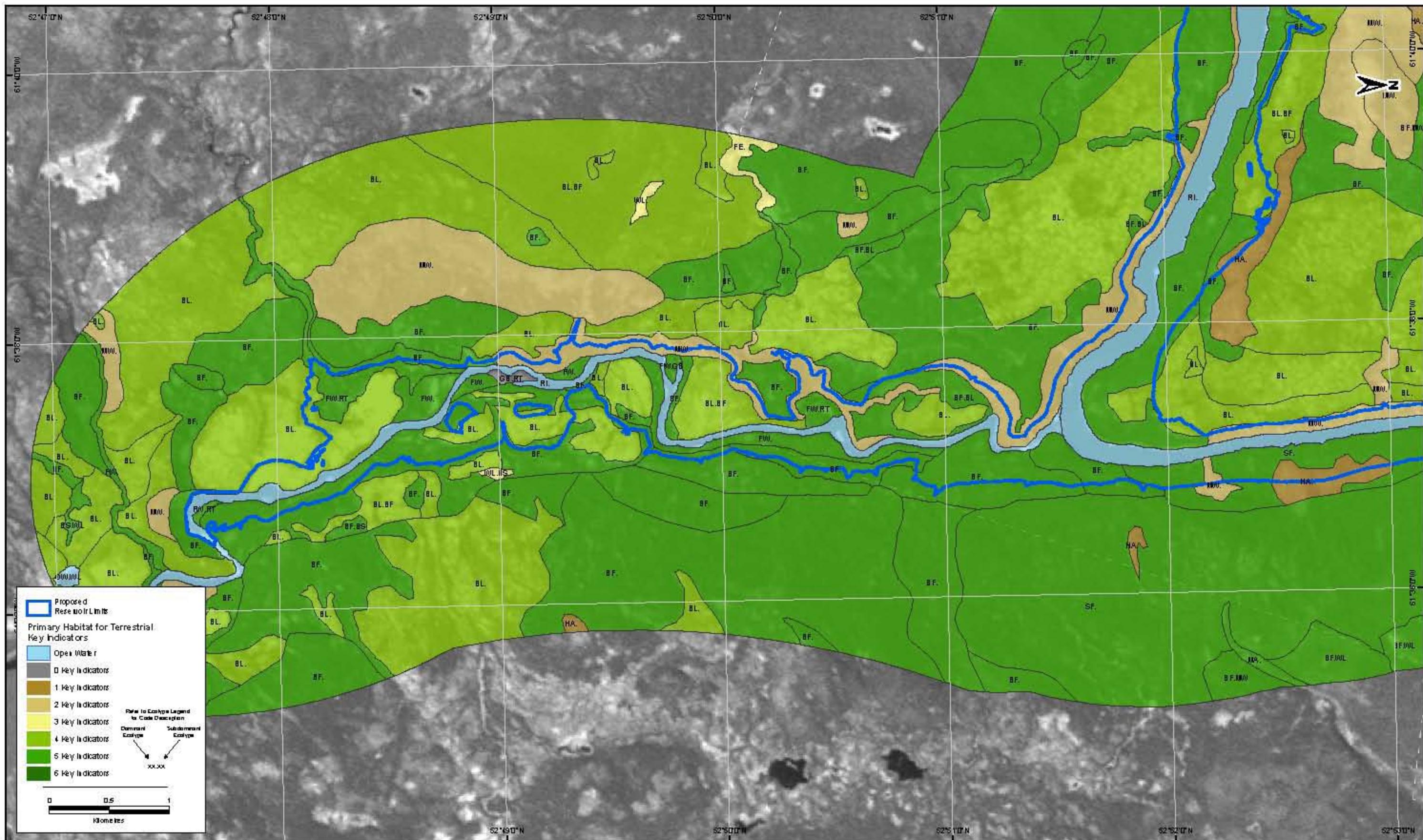


FIGURE NO:	IR#JRP15-17
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

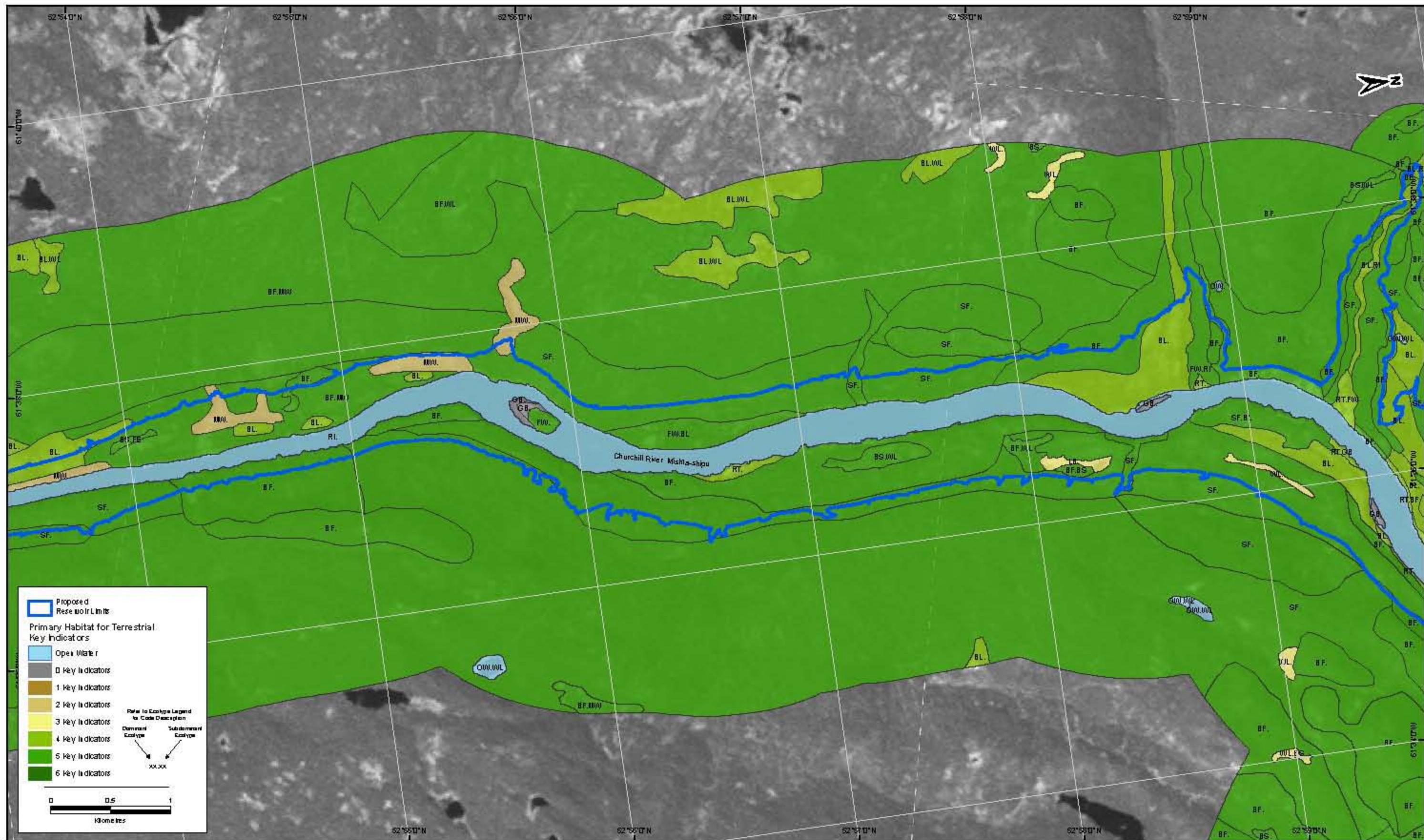


FIGURE NO.	IR#JRP15-18

**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

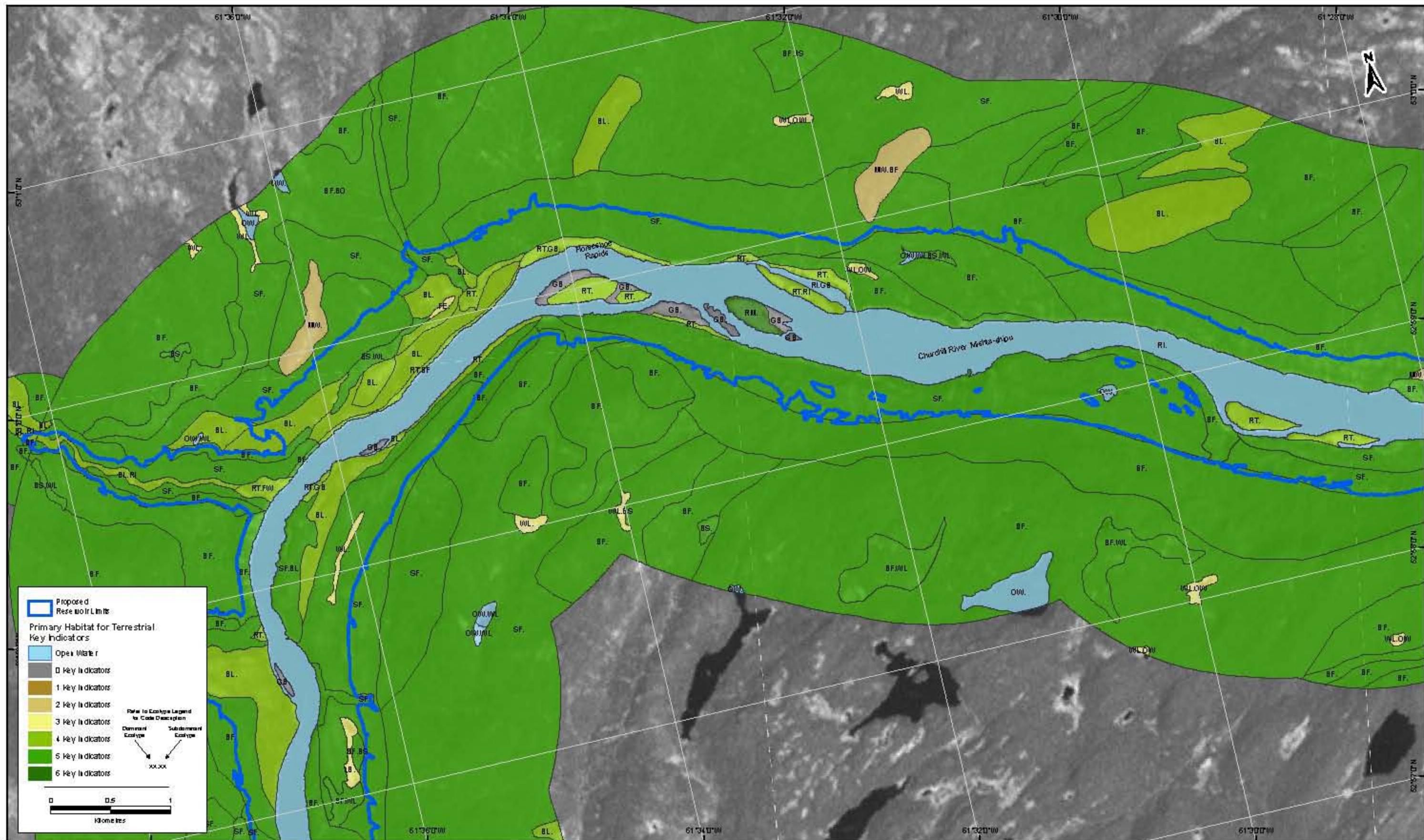


FIGURE NO:	IR#JRP15-19
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DATE:	05/26/2009
REVISION DATE:	05/26/2009

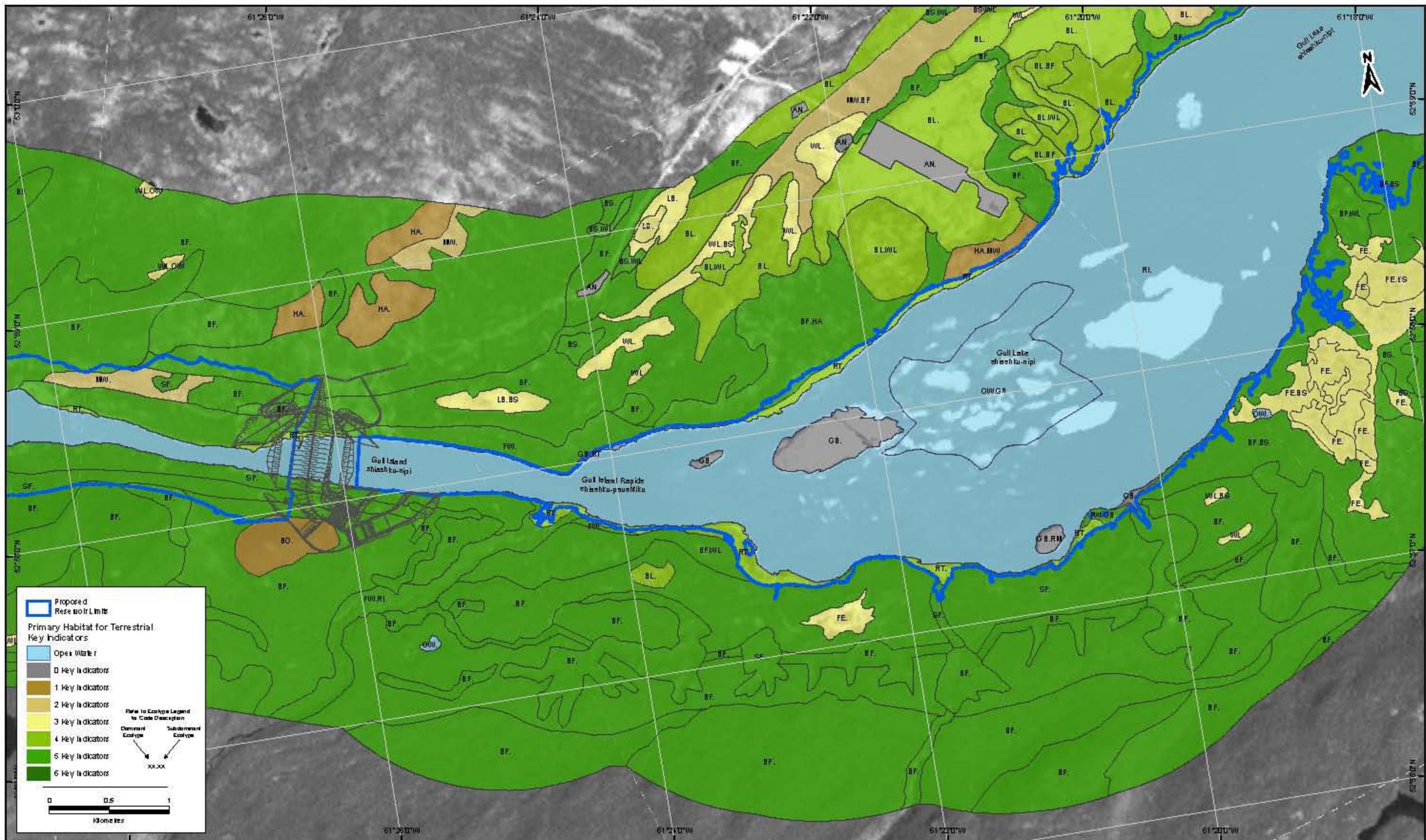


FIGURE NO:	IR#JRP15-20
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DR&PT DATE:	05/26/2009
REVISION DATE:	05/26/2009

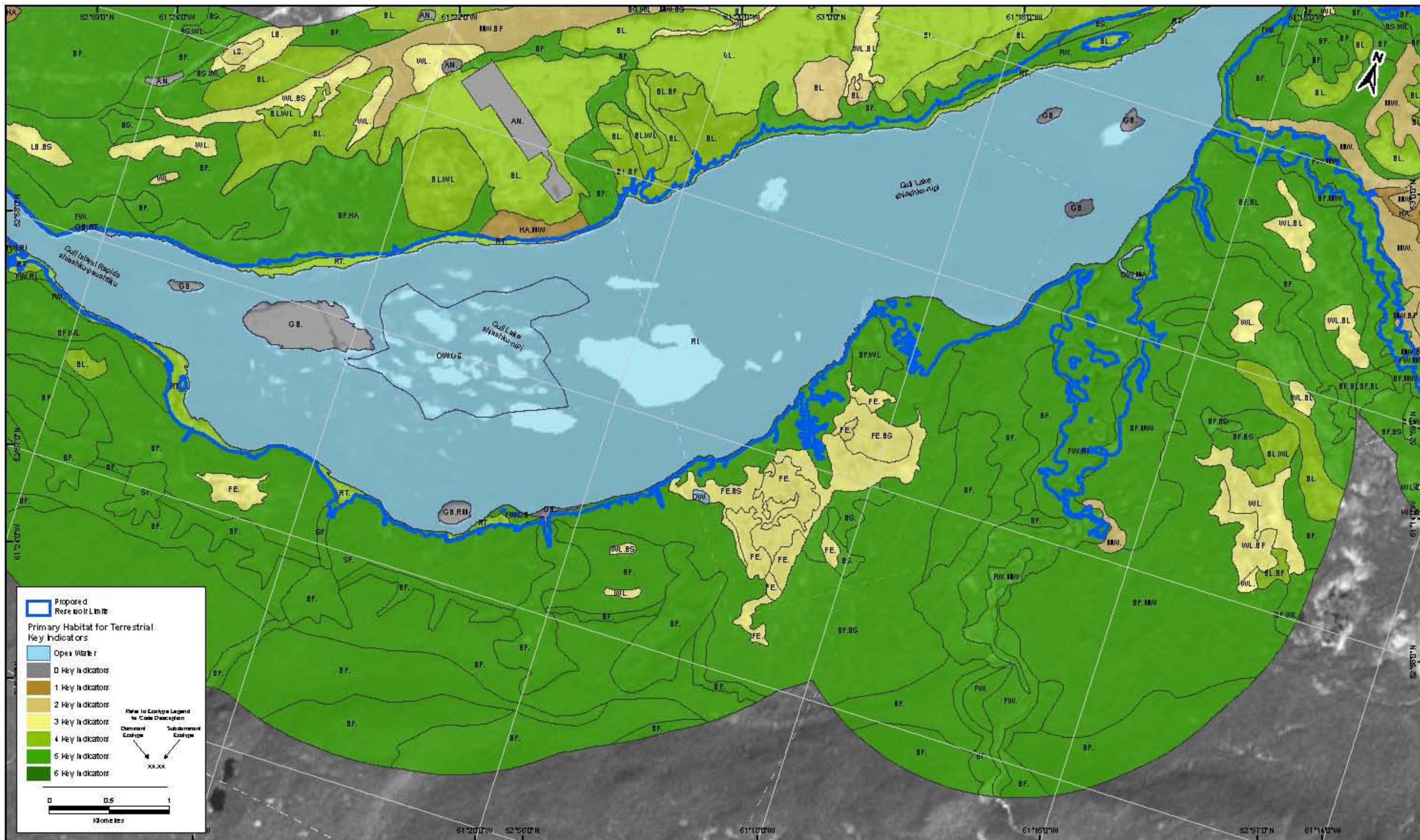


FIGURE NO:	IR#JRP15-21
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DATE:	05/26/2003
REVISION DATE:	05/26/2003

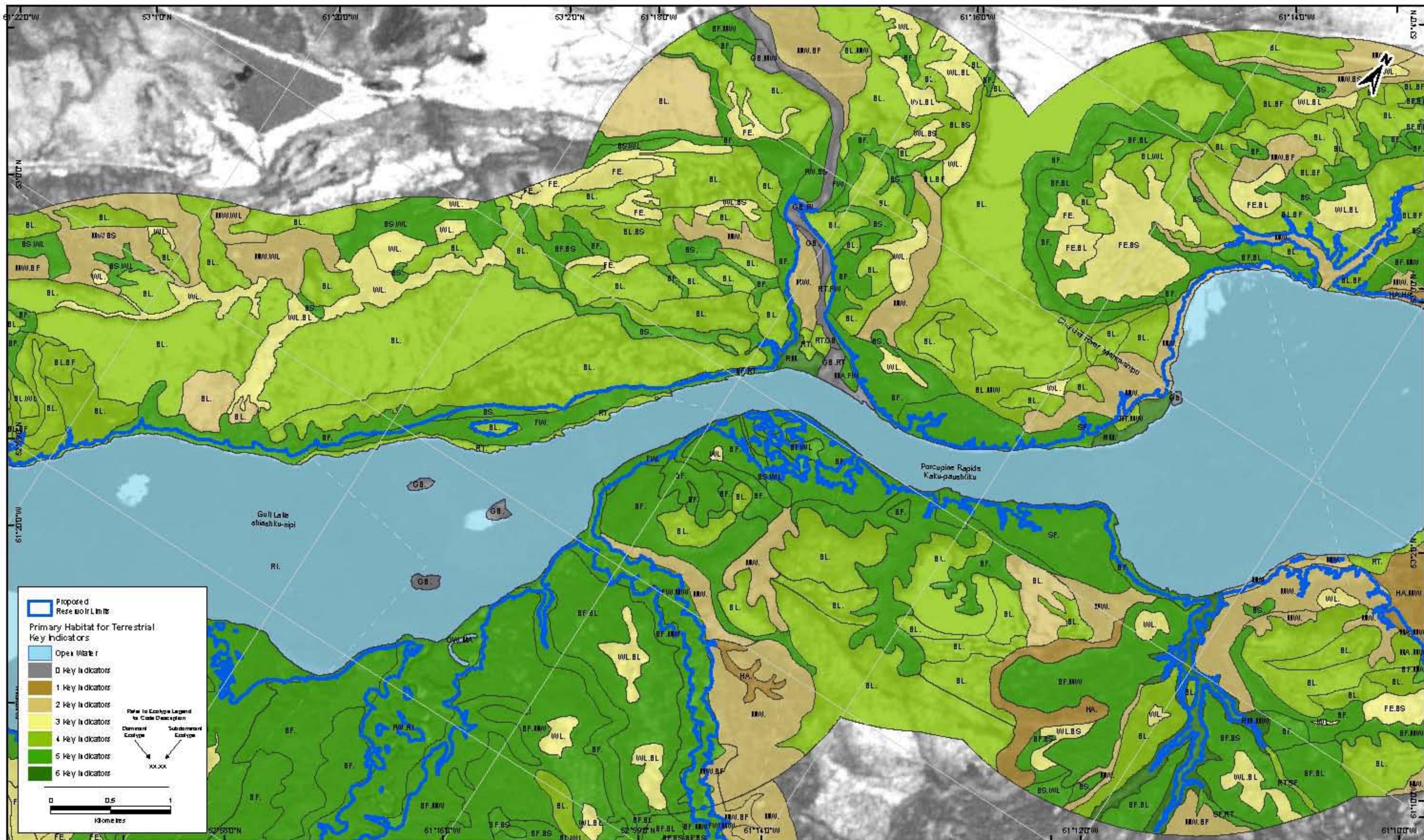


FIGURE NO.: IR#JRP15-22  
**IR JRP.15**  
 Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
 Churchill River

DRFTDATE: 05/26/2009  
 REVISION DATE: 05/26/2009

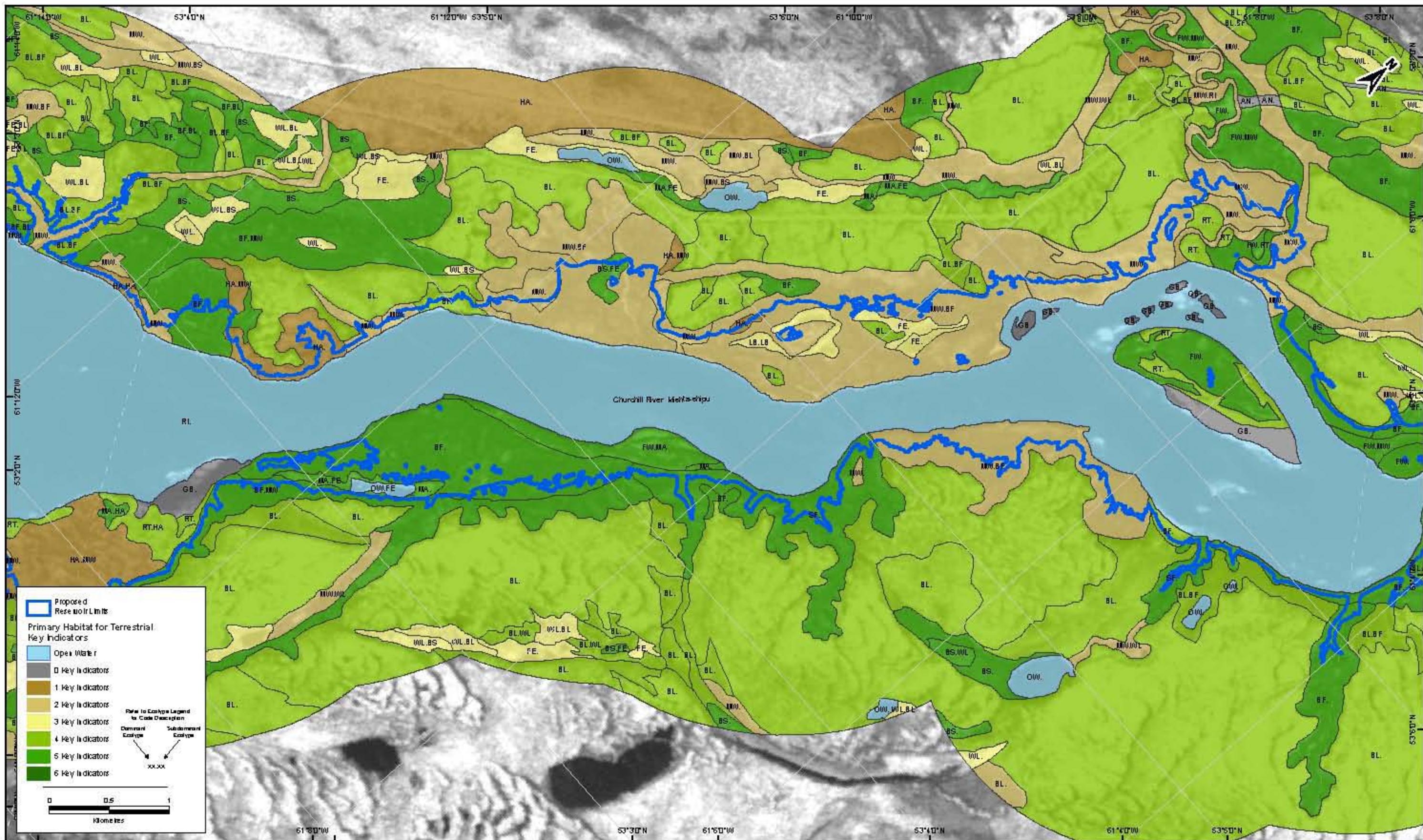


FIGURE NO.	IR#JRP15-23

**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

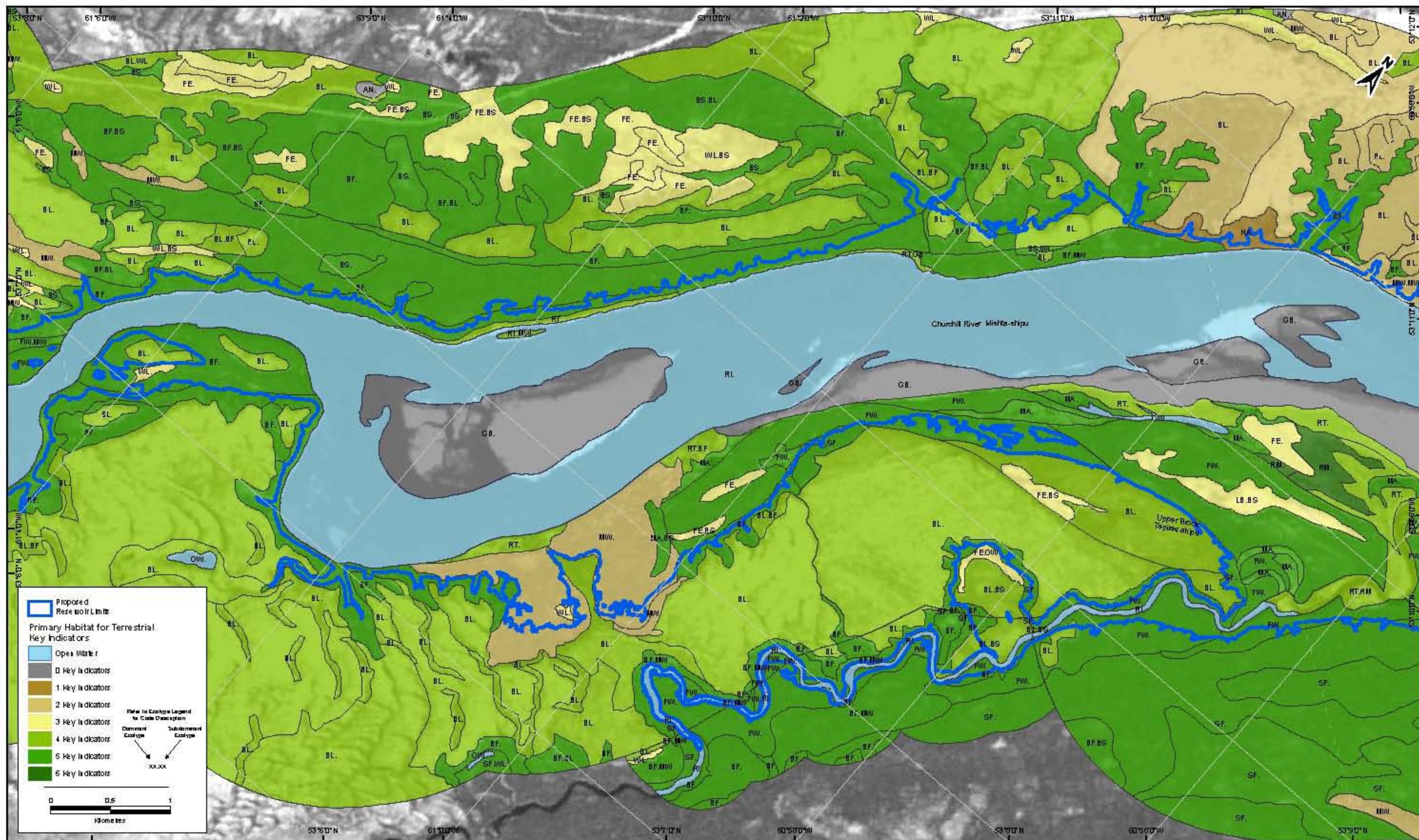
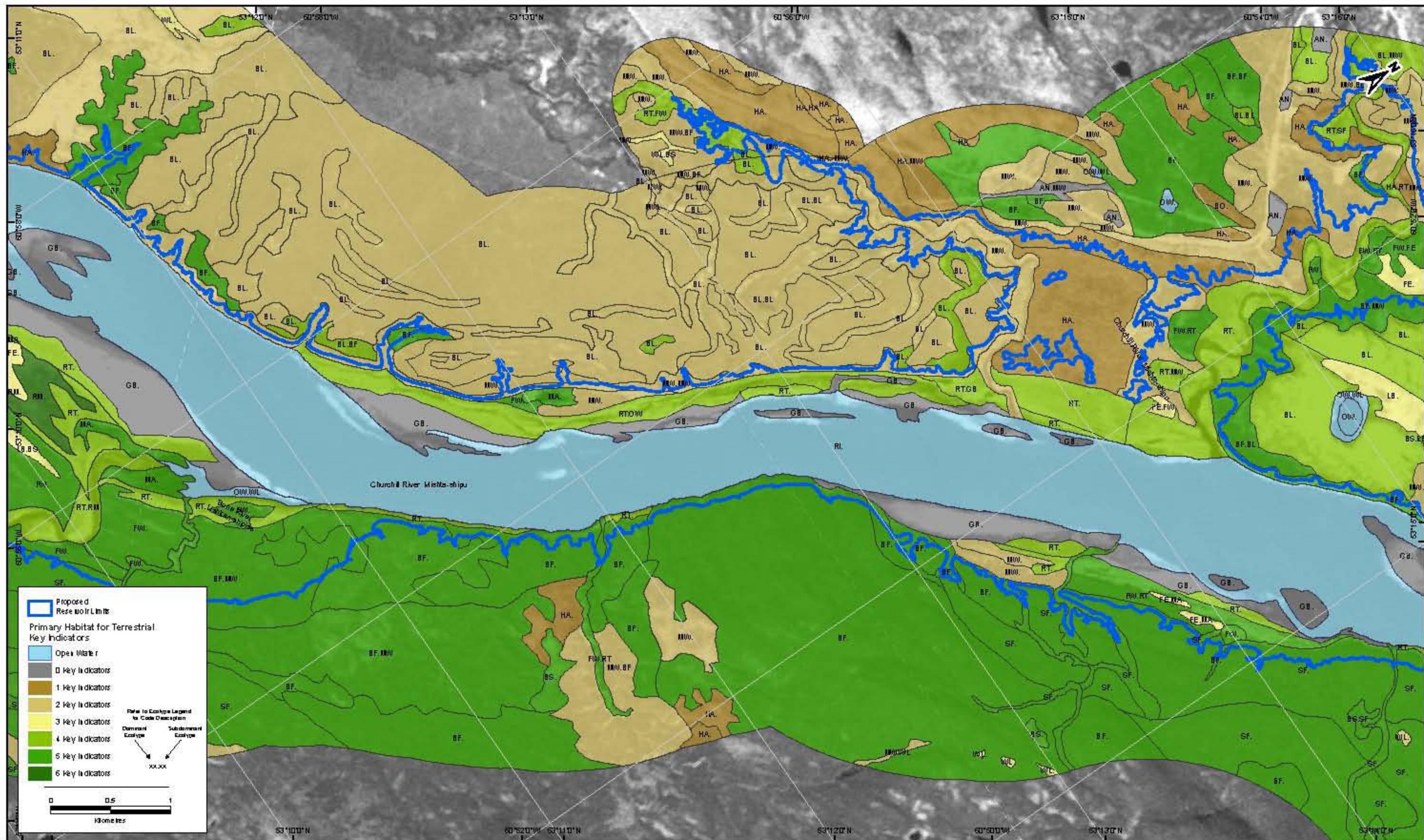


FIGURE NO:	IR#JRP15-24
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009



**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

FIGURE NO: IR#JRP15-25	
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DRFT DATE: 05/26/2009
REVISION DATE: 05/26/2009

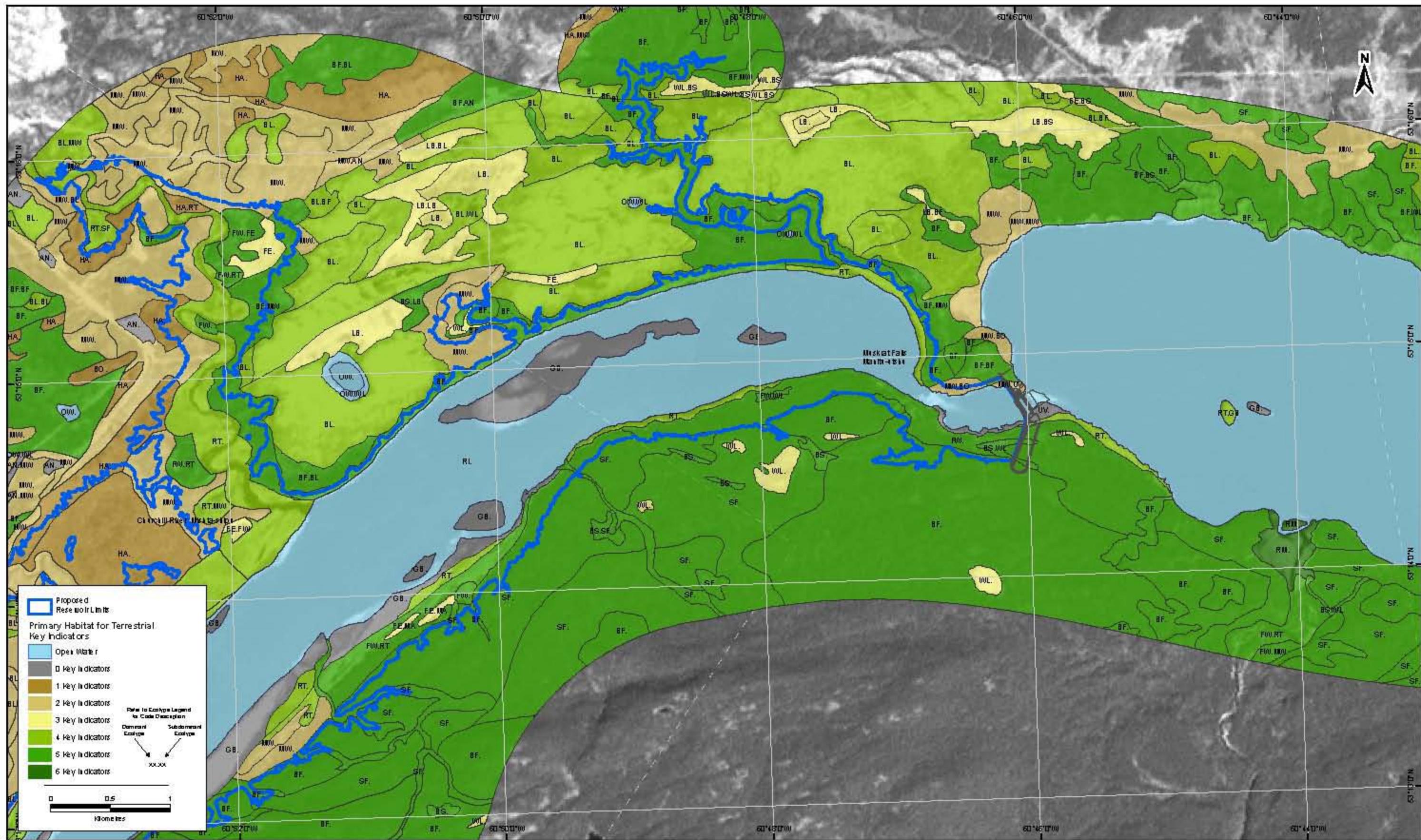


FIGURE NO.	IR#JRP15-26
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DATE	05/26/2003
REVISION DATE	05/26/2003

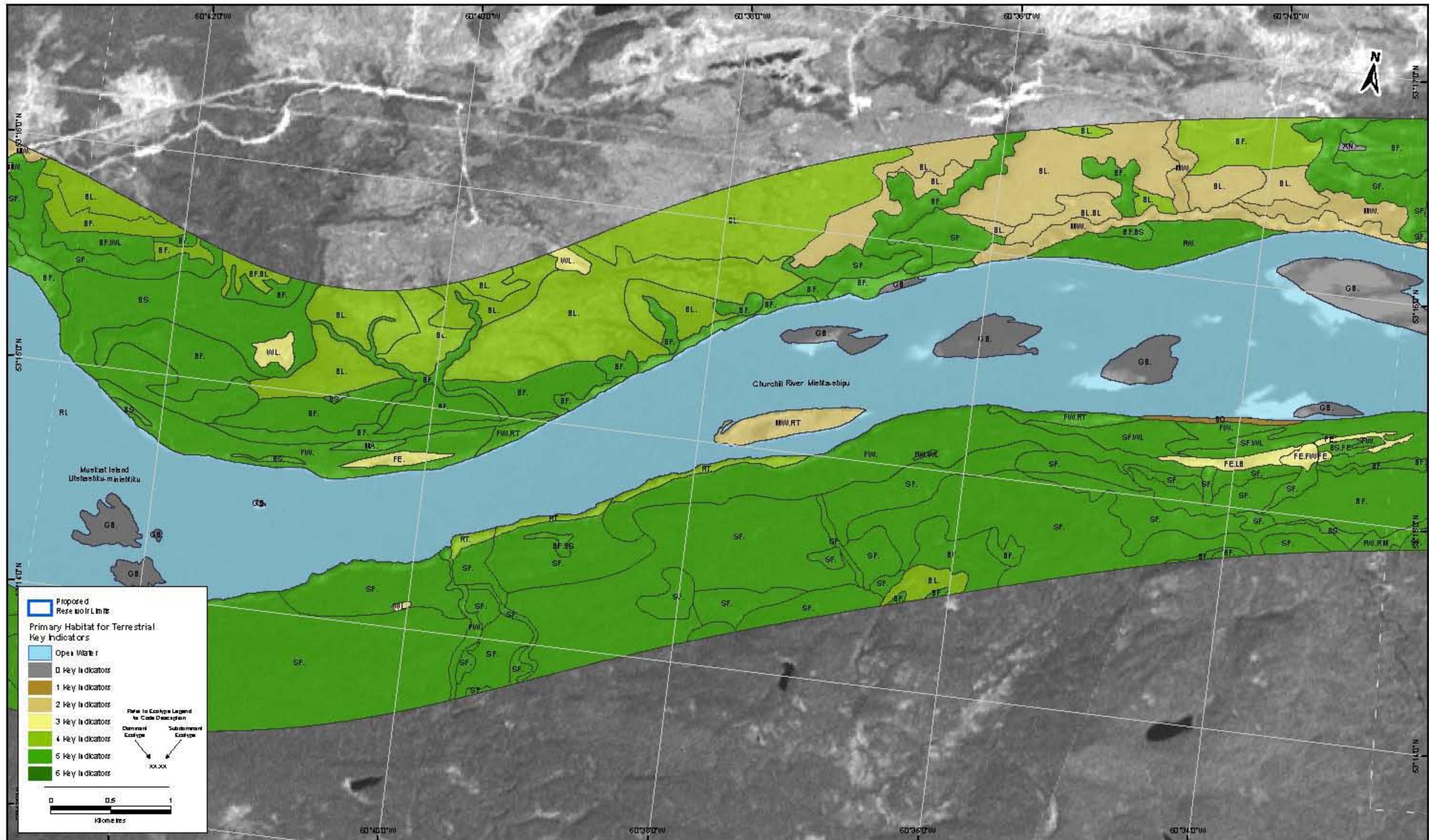


FIGURE NO.	IR#JRP15-27
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

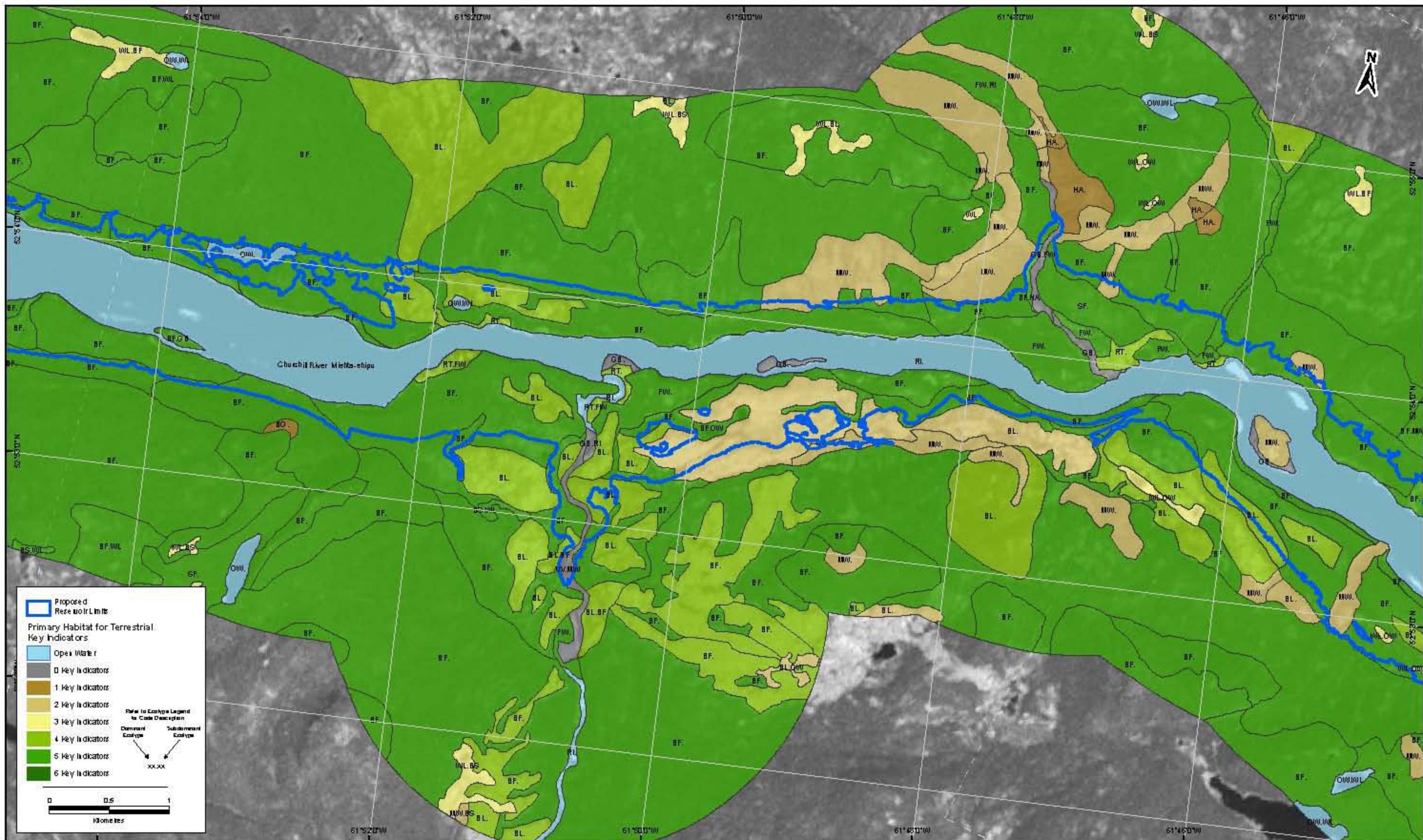


FIGURE NO:	IR#JRP15-28
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

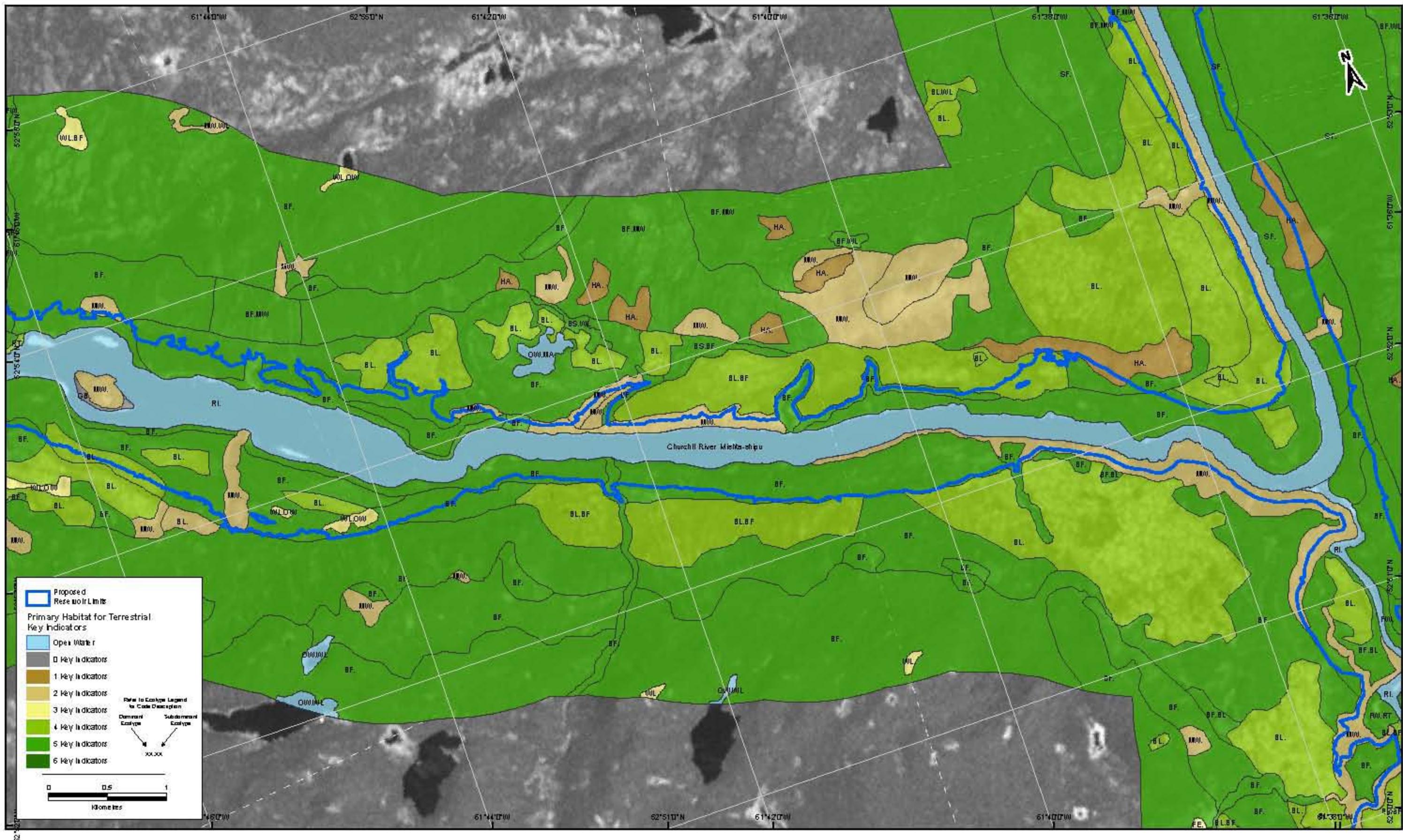


FIGURE NO:	IR#JRP15-29
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DATE DATE:	05/26/2009
REVISION DATE:	05/26/2009

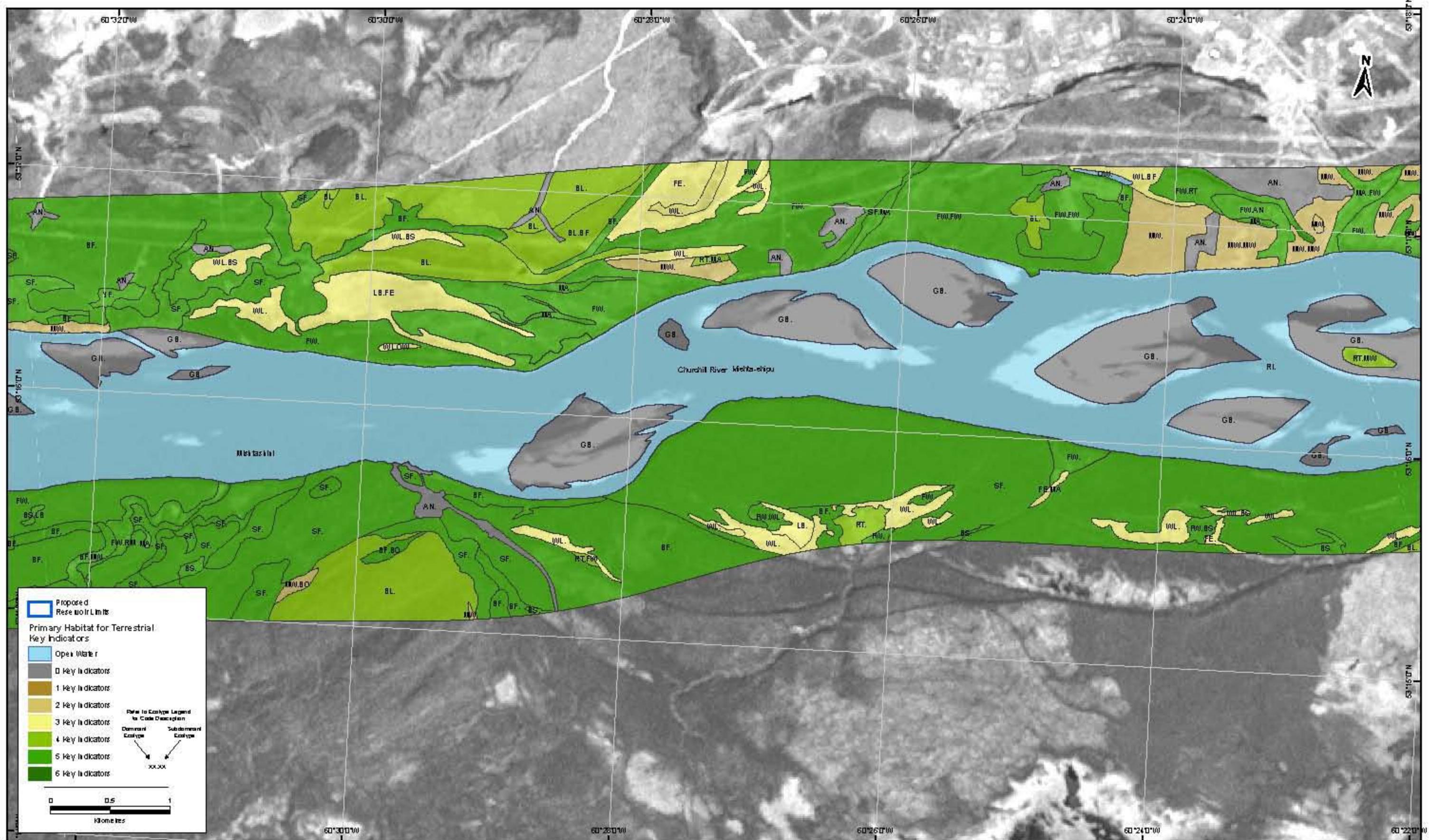


FIGURE NO:	IR#JRP15-30
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	05/26/2009
REVISION DATE:	05/26/2009

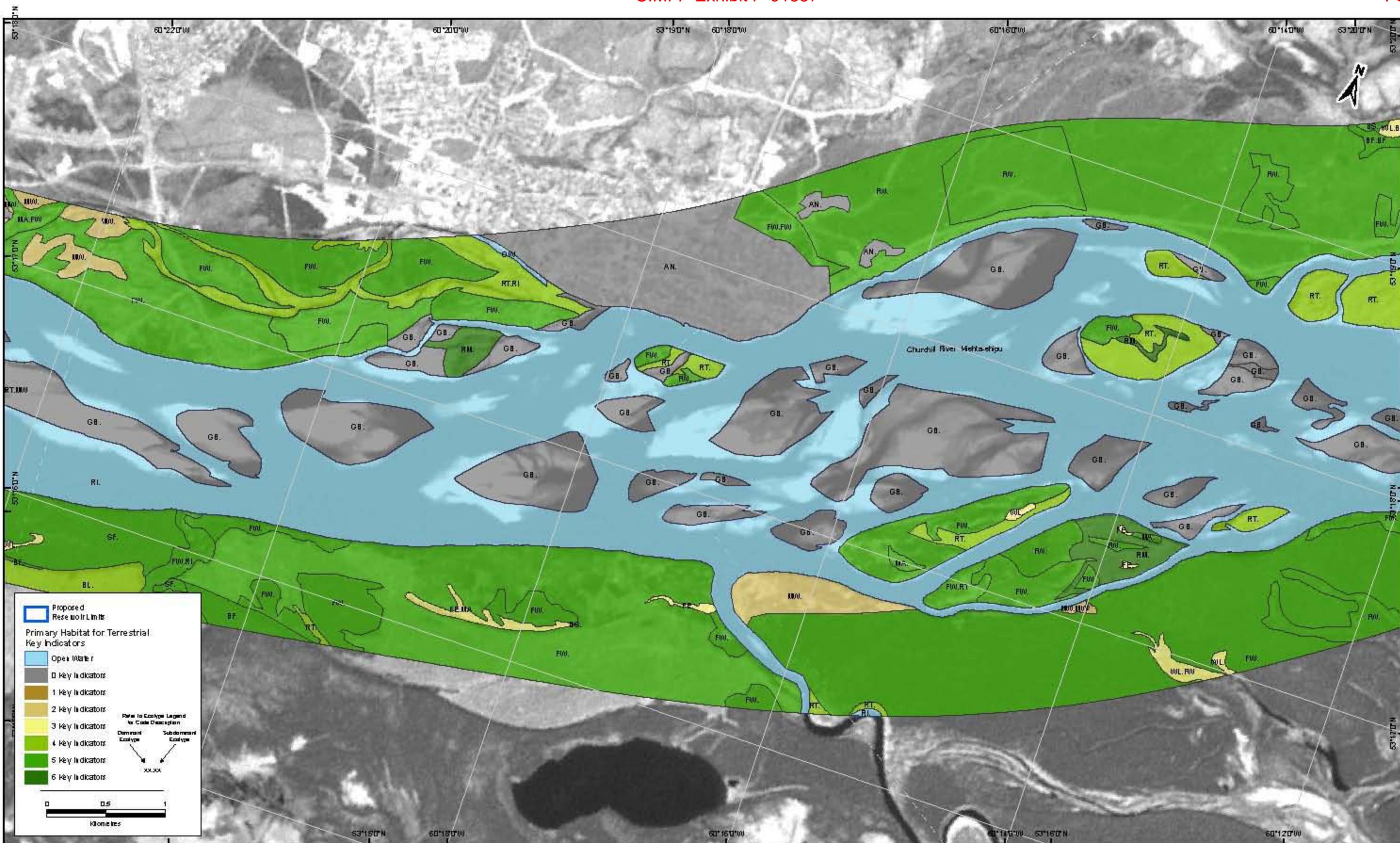


FIGURE NO:	IR#JRP15-31
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DR&FT DATE:	05/26/2003
REVISION DATE:	05/26/2003

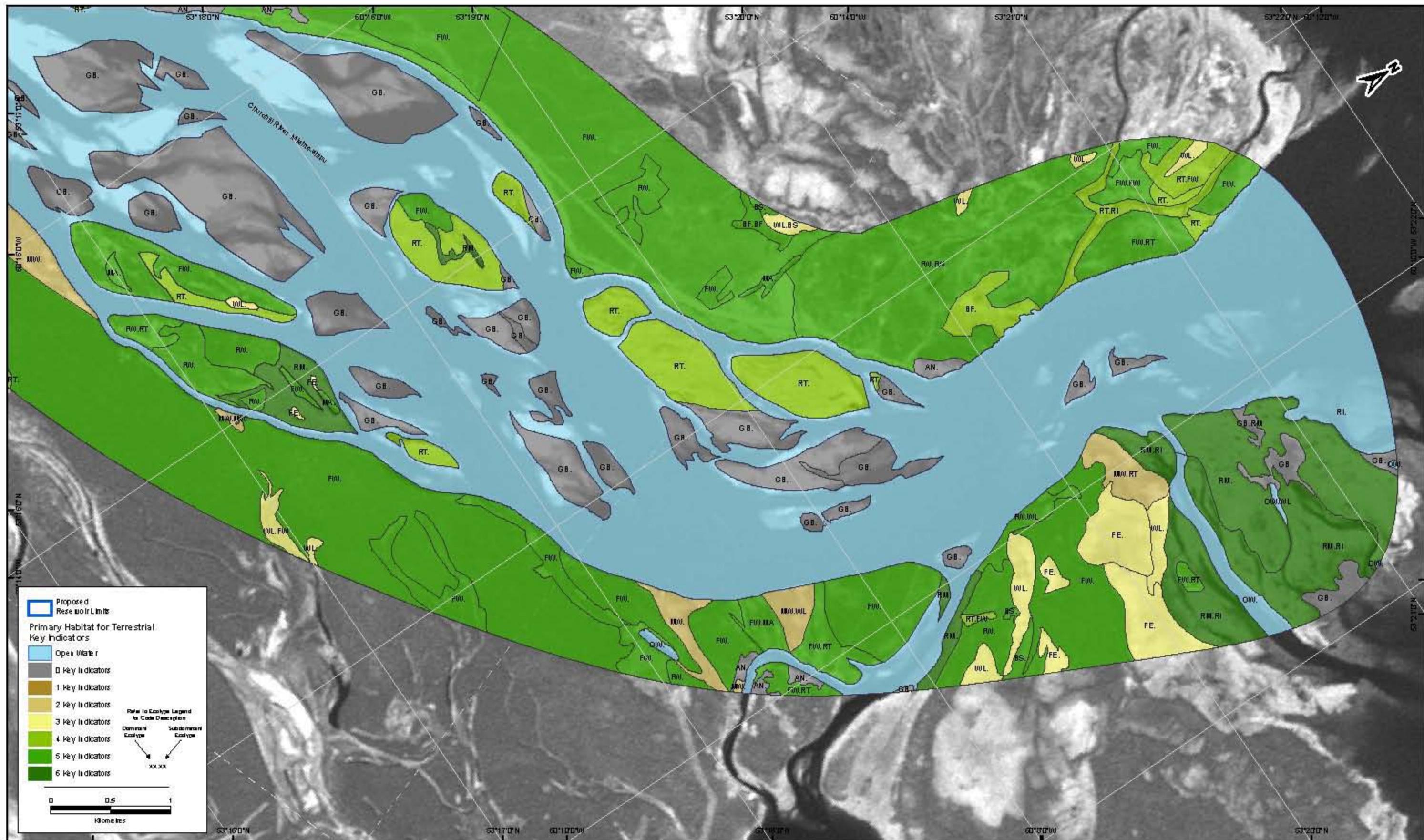


FIGURE NO:	IR#JRP15-32
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**IR JRP.15**  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Churchill River

DRFT DATE:	DS/26/2009
REVISION DATE:	DS/26/2009

ELC Code	Ecotype Name	ELC Code	Ecotype Name
AN	Anthropogenic	LB	Low Shrub Bog
BF	Black Spruce - Feather Moss	MA	Marsh
BL	Black Spruce - Lichen Woodland	MW	Mixedwood
BO	Black Spruce on Outcropping	OW	Open Water
BS	Black Spruce - Sphagnum Woodland	RI	River
FE	Fen	RM	Riparian Meadow
FW	Fir/White Spruce Woodland	RT	Riparian Thicket
GB	Gravel Bar	SF	Spruce/Fir Feathemoss
HA	Hardwood	UV	Unvegetated
		WL	Wetland

	IR JRP.15
	Composite Mapping (Terrestrial Environment) Ecotype Land Classification Legend

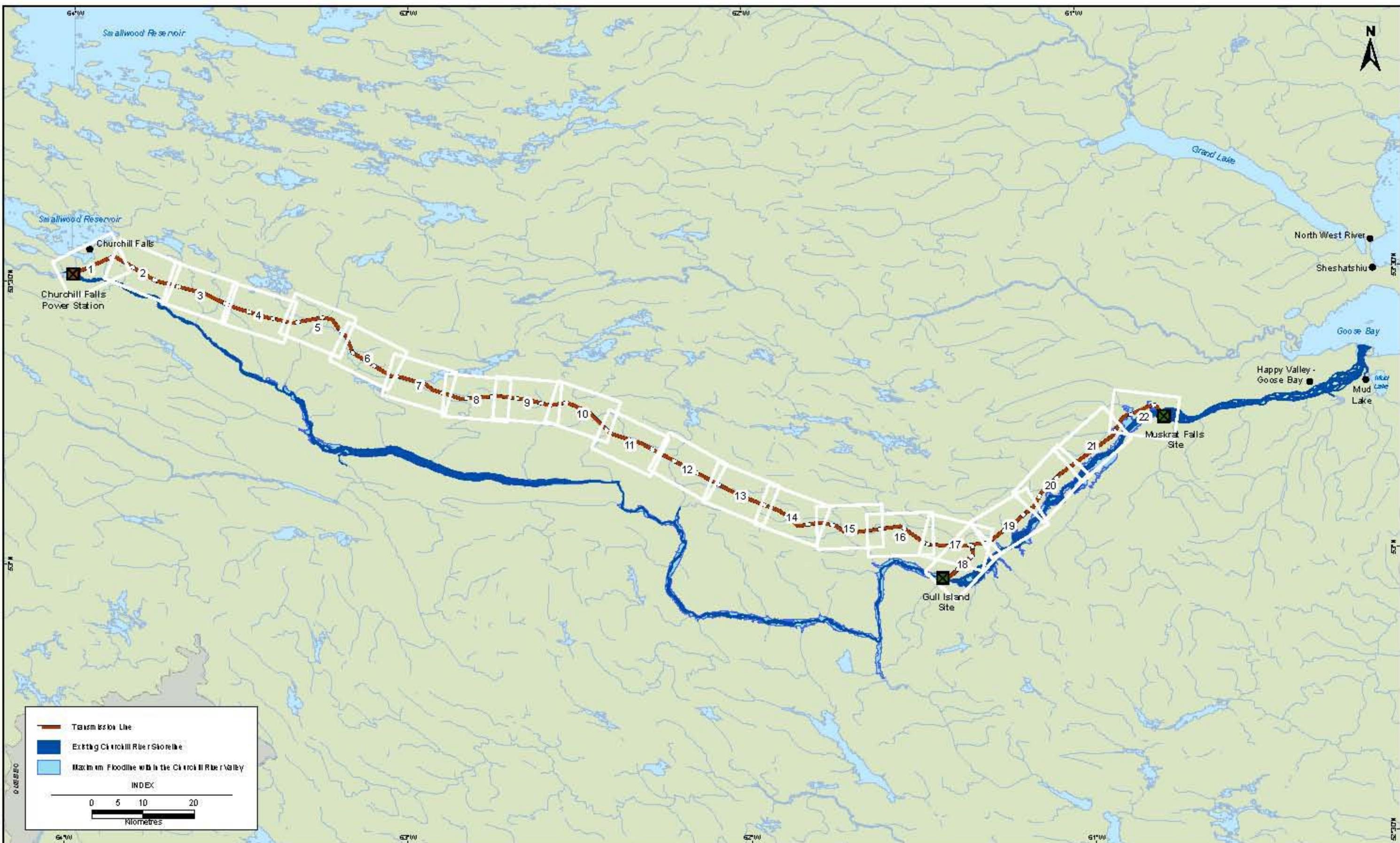
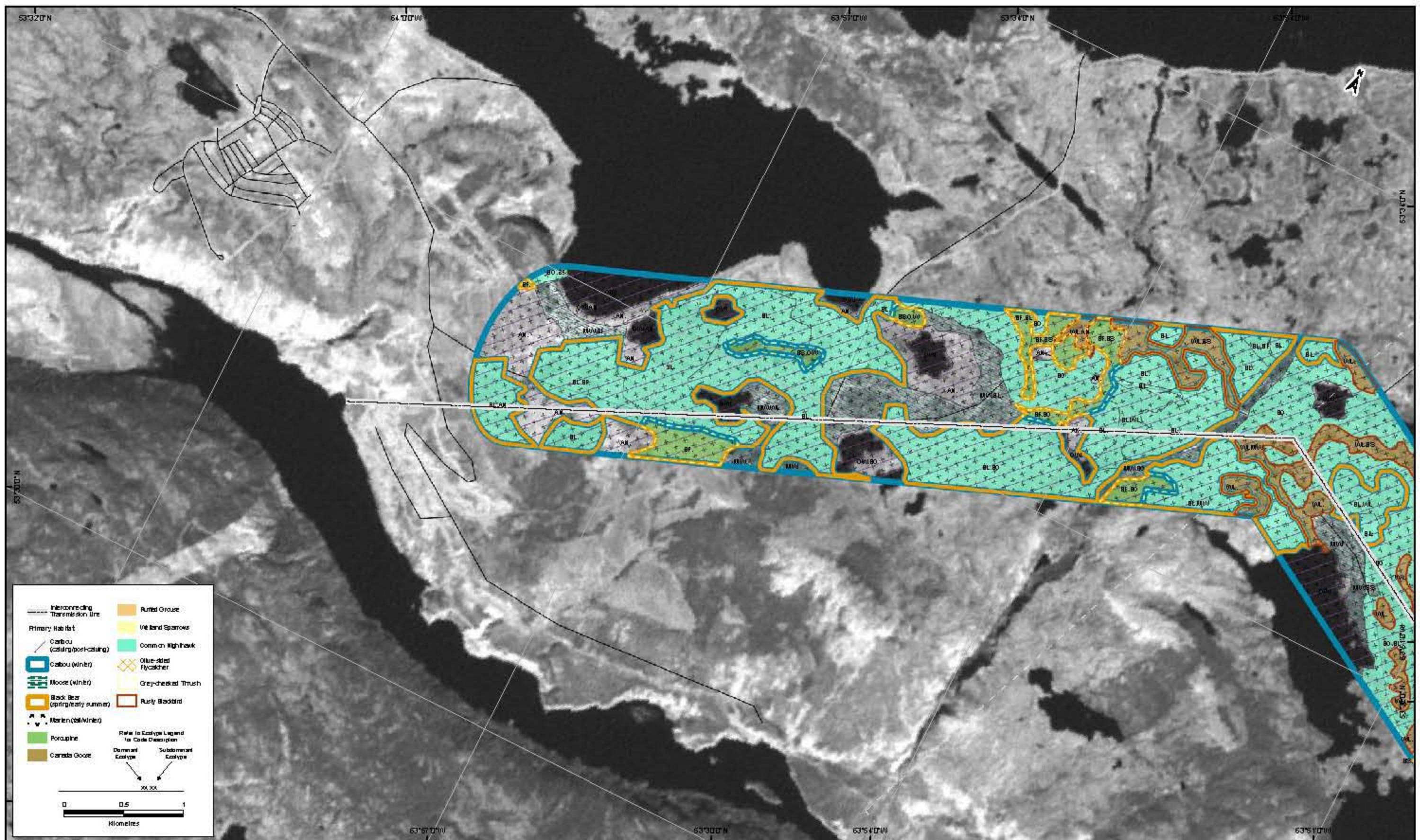


FIGURE NO:	IR JRP.15 Primary Habitat for Individual Terrestrial Key Indicators for Interconnecting Transmission Line - Index	DRAFT DATE: 22/05/2009
INDEX		REVISION DATE: 06/05/2009



IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

FIGURE NO: IR#JRP.15-1	
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DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008

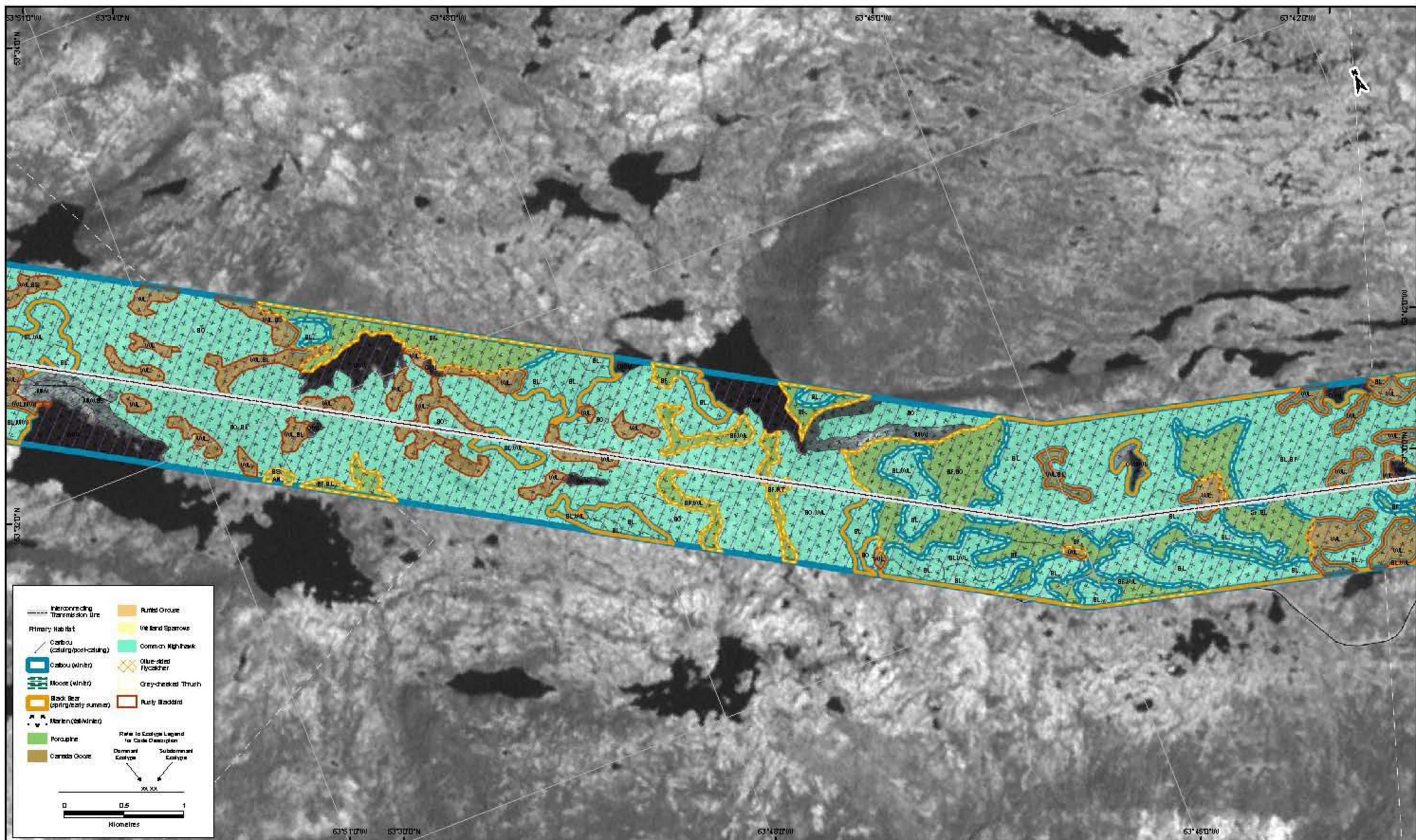


FIGURE NO:	IR#JRP.15-2
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

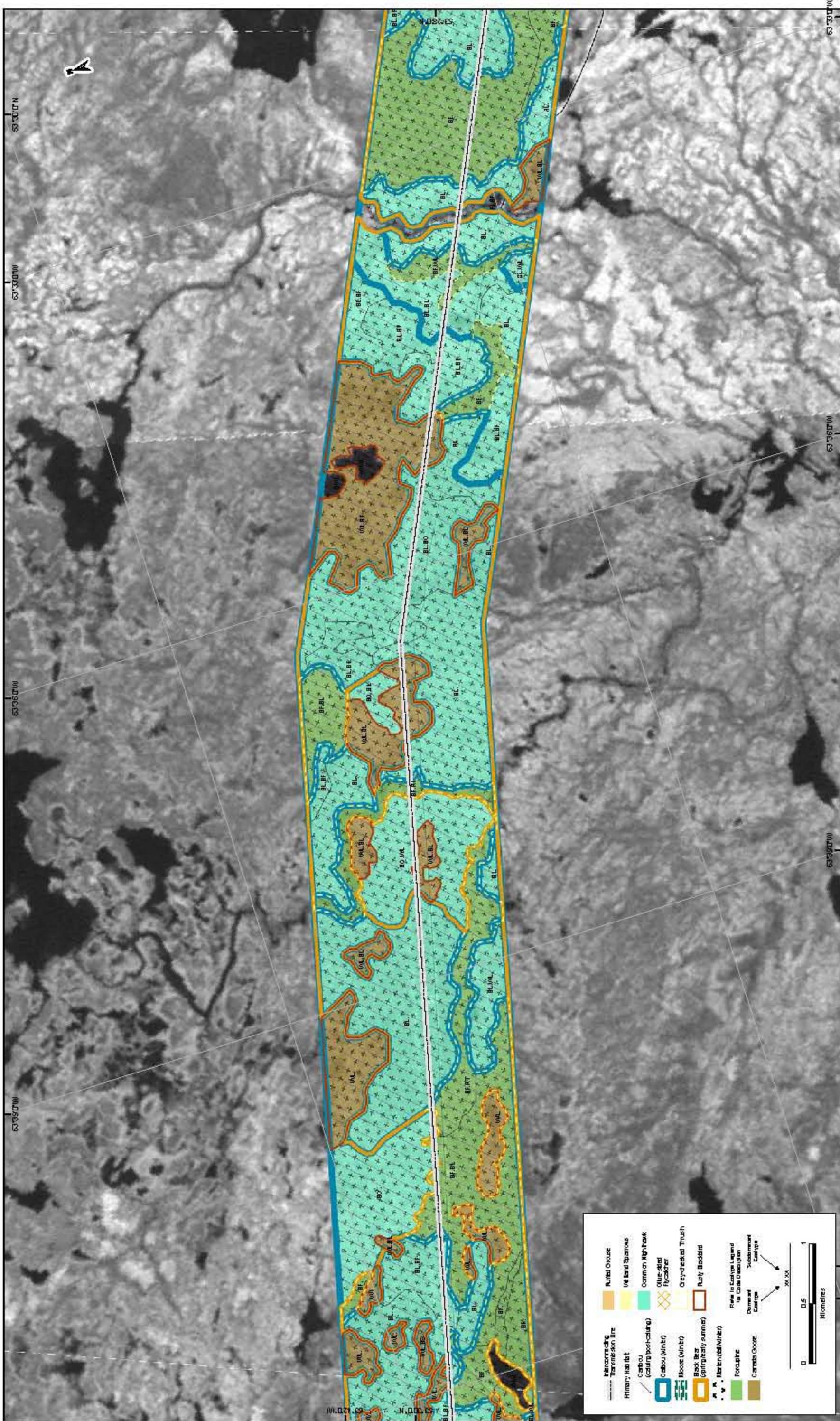


FIGURE NO:

IR#JRP.15-3

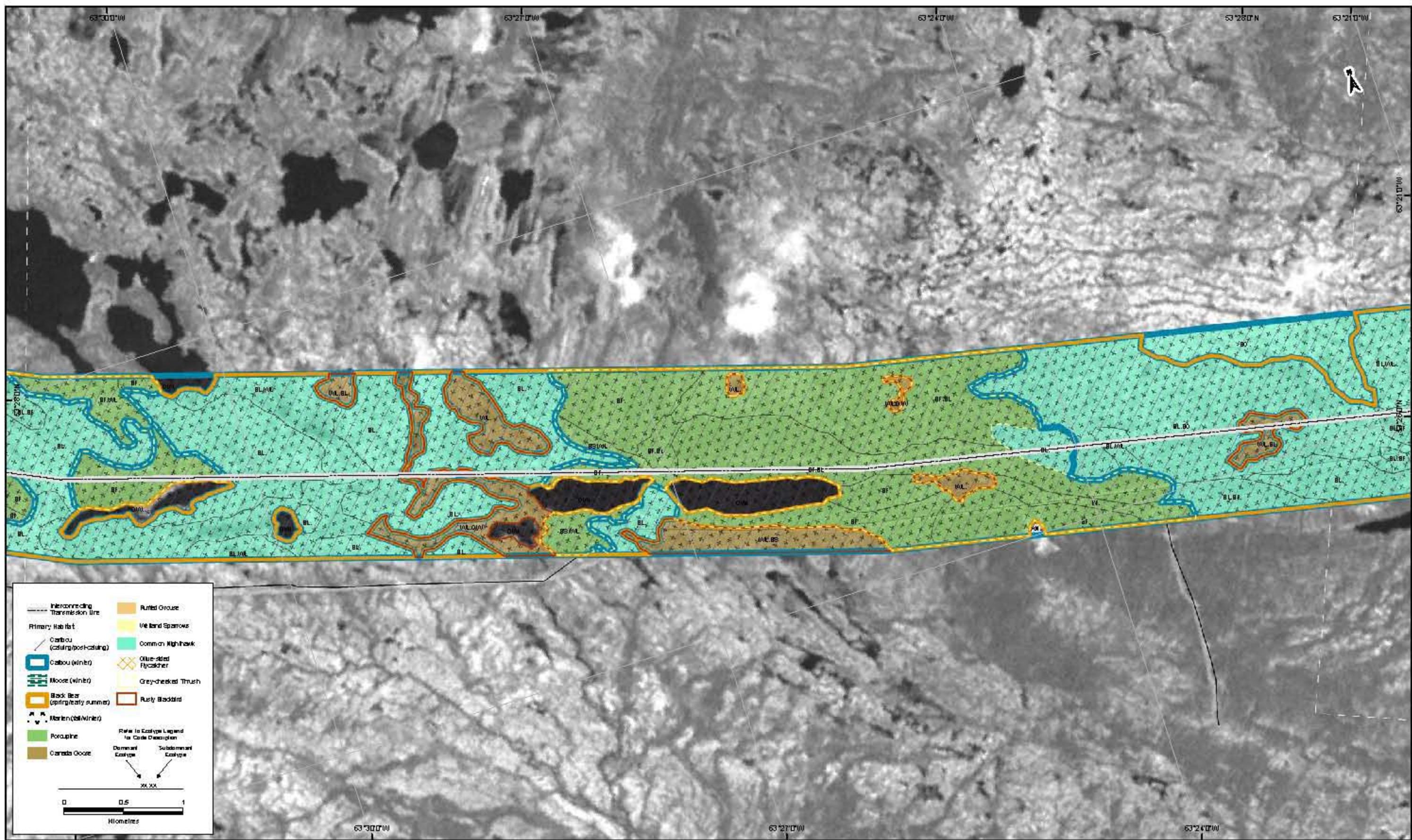
DATE/REF ID:

DS/25/2018

REVISED DATE:

DS/26/19/2018

**IR#JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line**



**FIGURE NO:**  
IR#JRP.15-4

**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DR&FT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

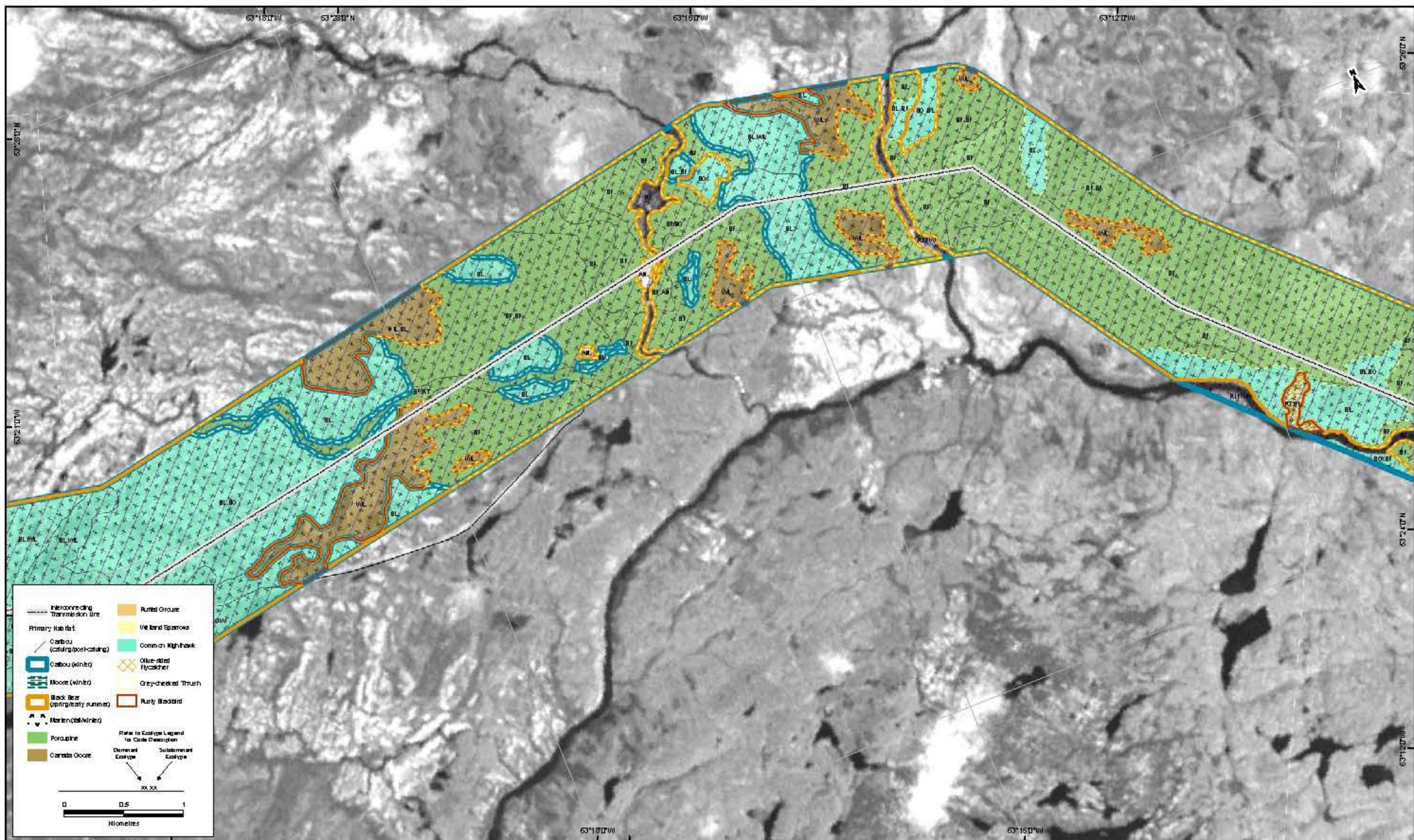
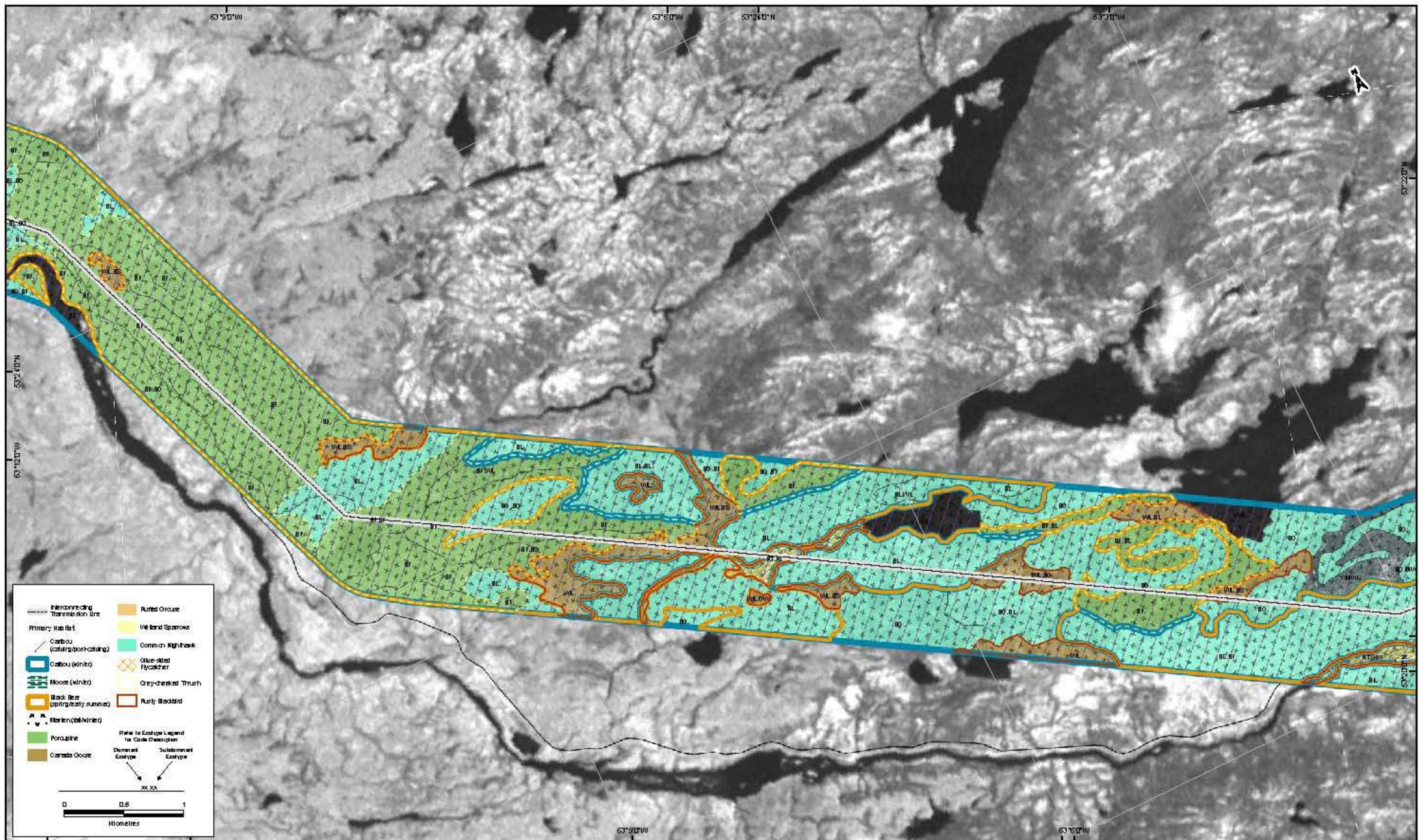


FIGURE NO.	IR#JRP.15-5
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

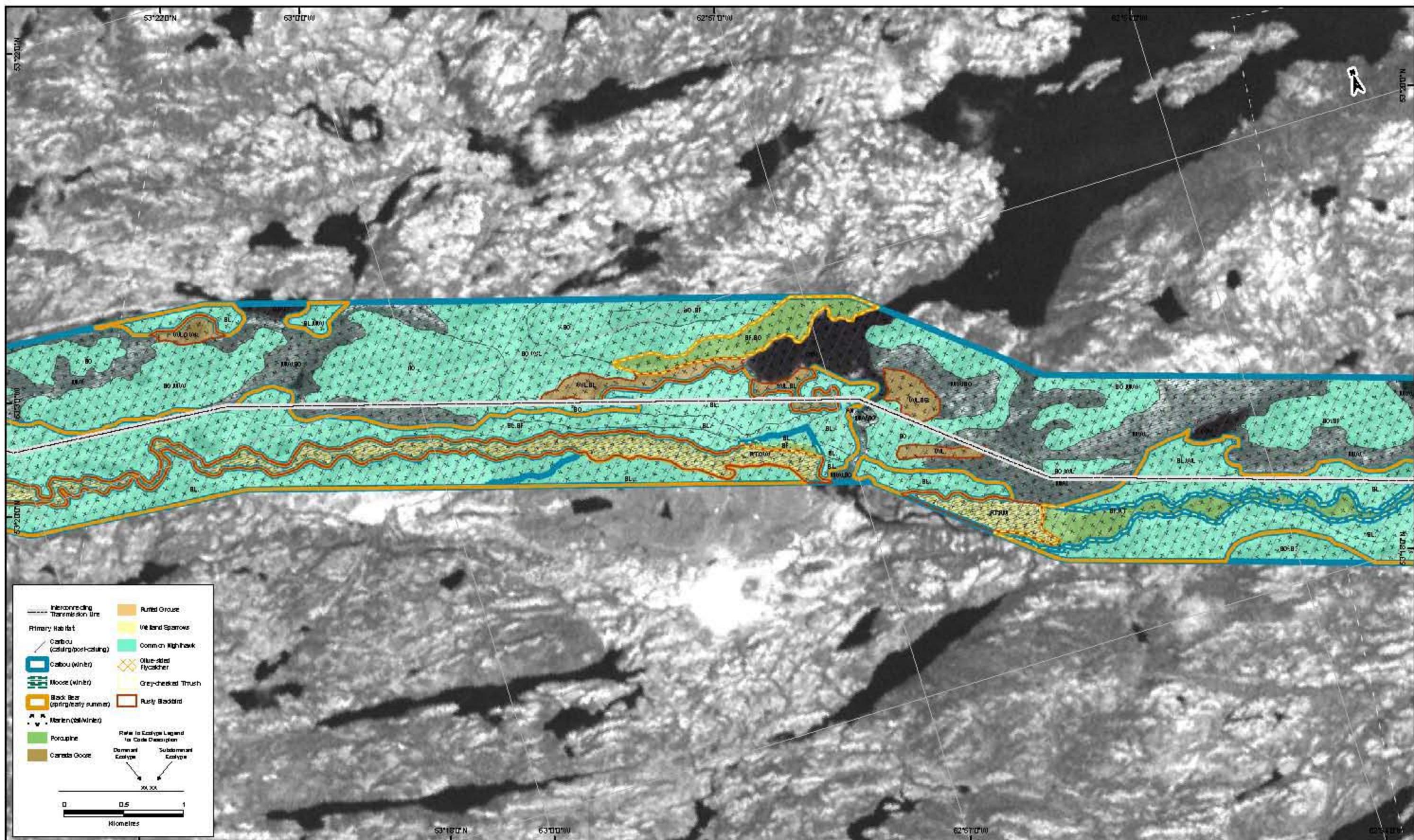
DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

FIGURE NO: IR#JRP.15-6	
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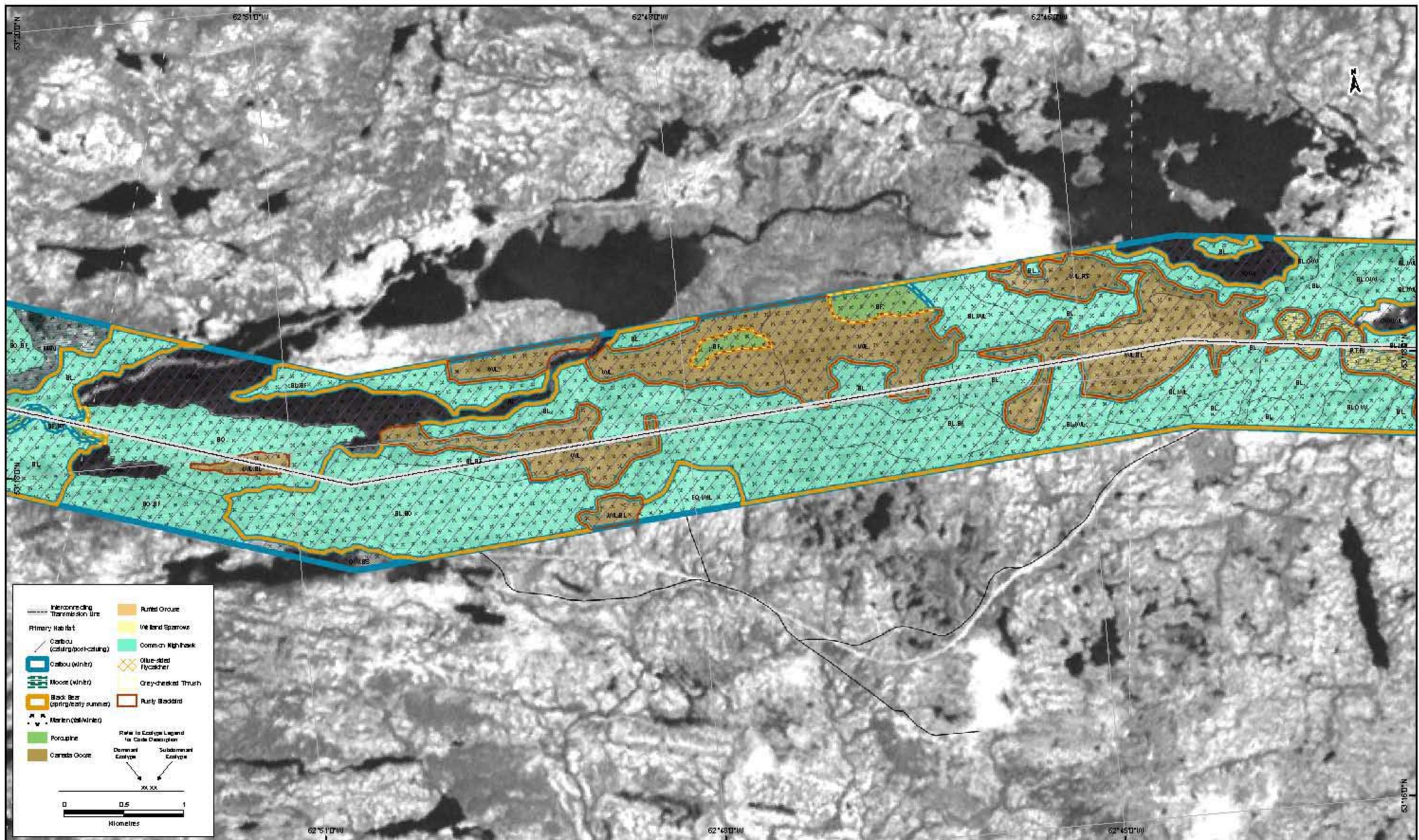
DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008



**FIGURE NO:**  
IR#JRP.15-7

**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

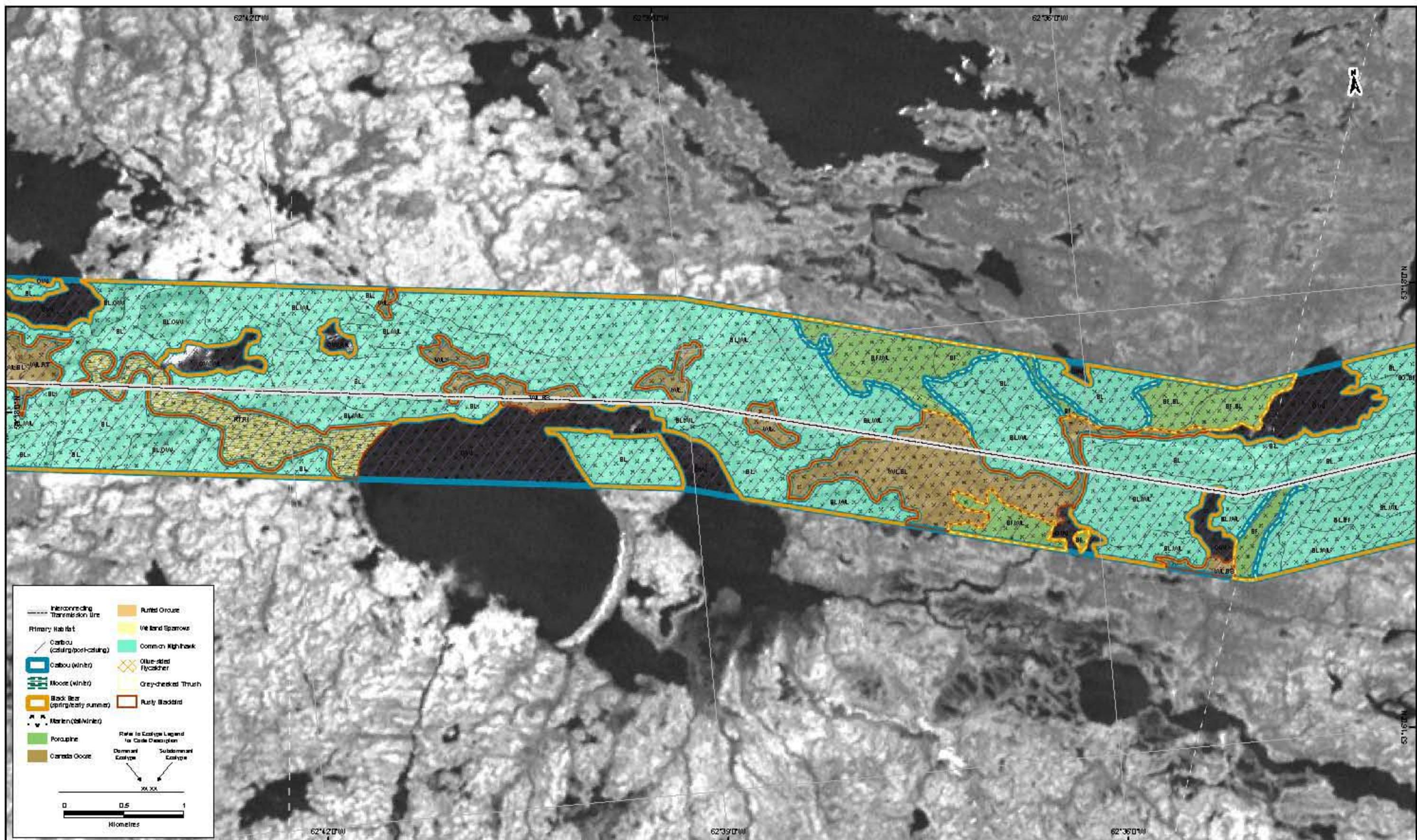
DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

FIGURE NO:	IR#JRP.15-8
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DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



**FIGURE NO:**  
IR#JRP.15-9

**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

**DRFT DATE:**  
DS/26/2008

**REVISION DATE:**  
DS/26/19/2008

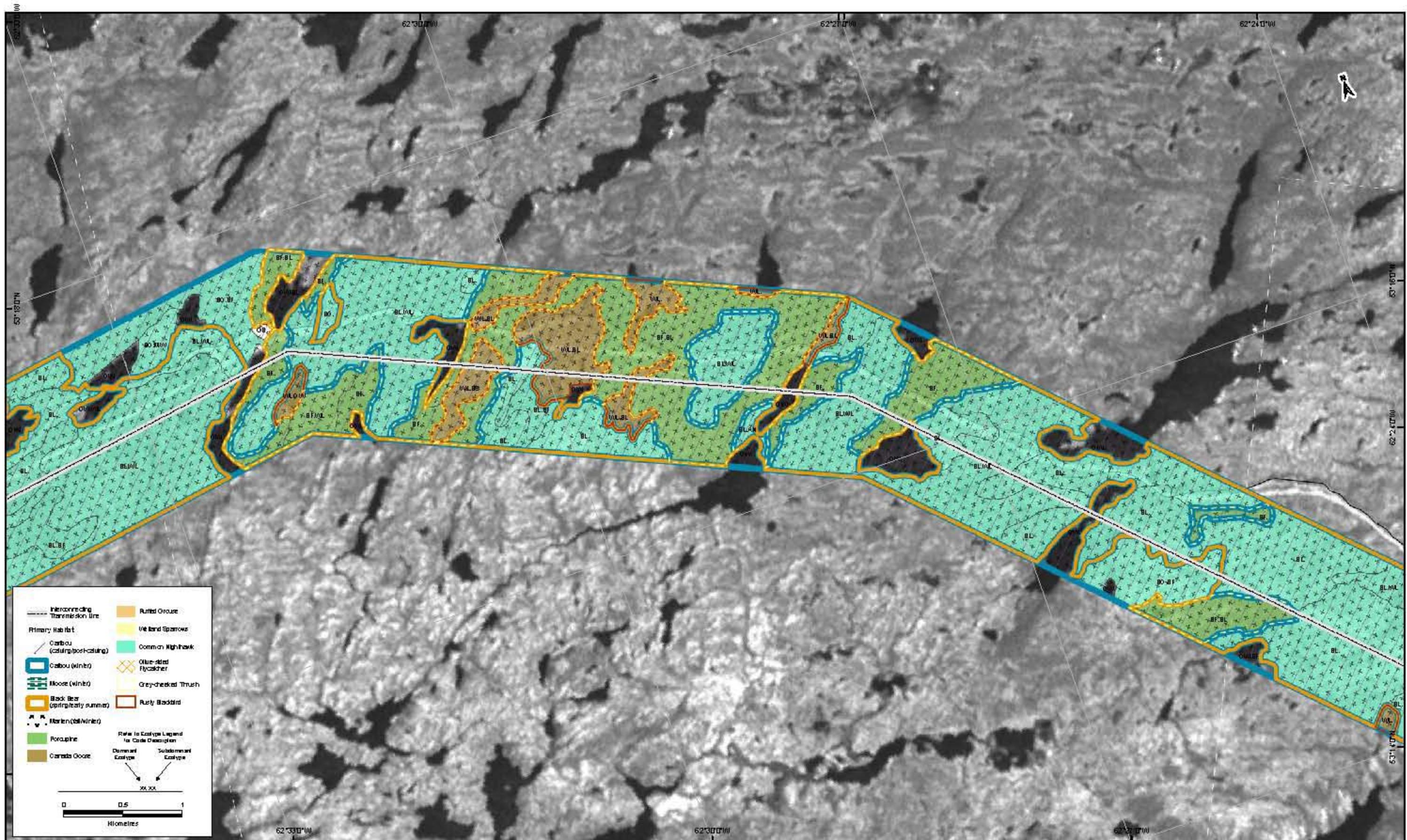
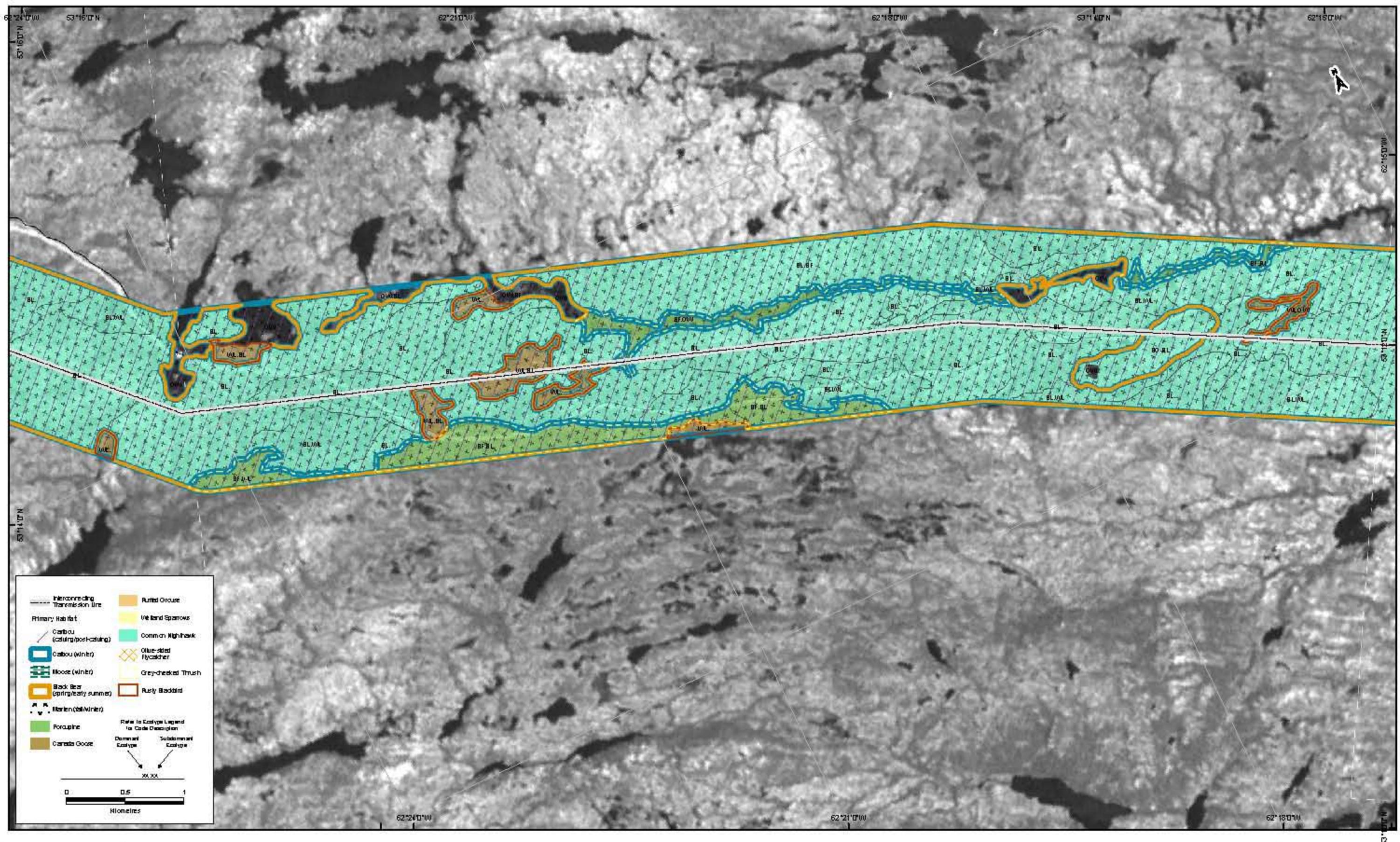


FIGURE NO:	IR#JRP.15-10
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

FIGURE NO:  
IR#JRP.15-11

DRFT DATE:  
05/26/2008  
REVISION DATE:  
05/26/19/2008

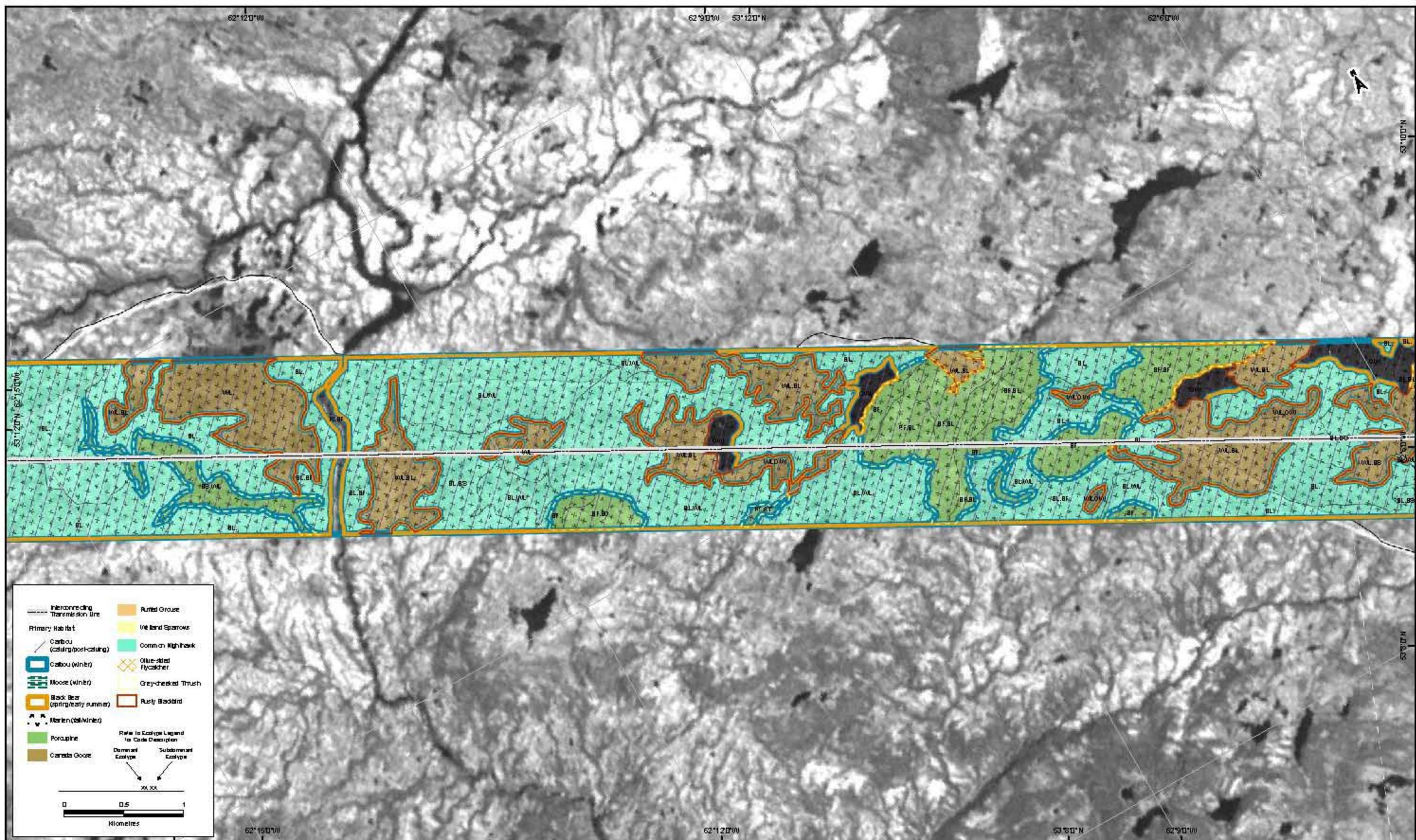
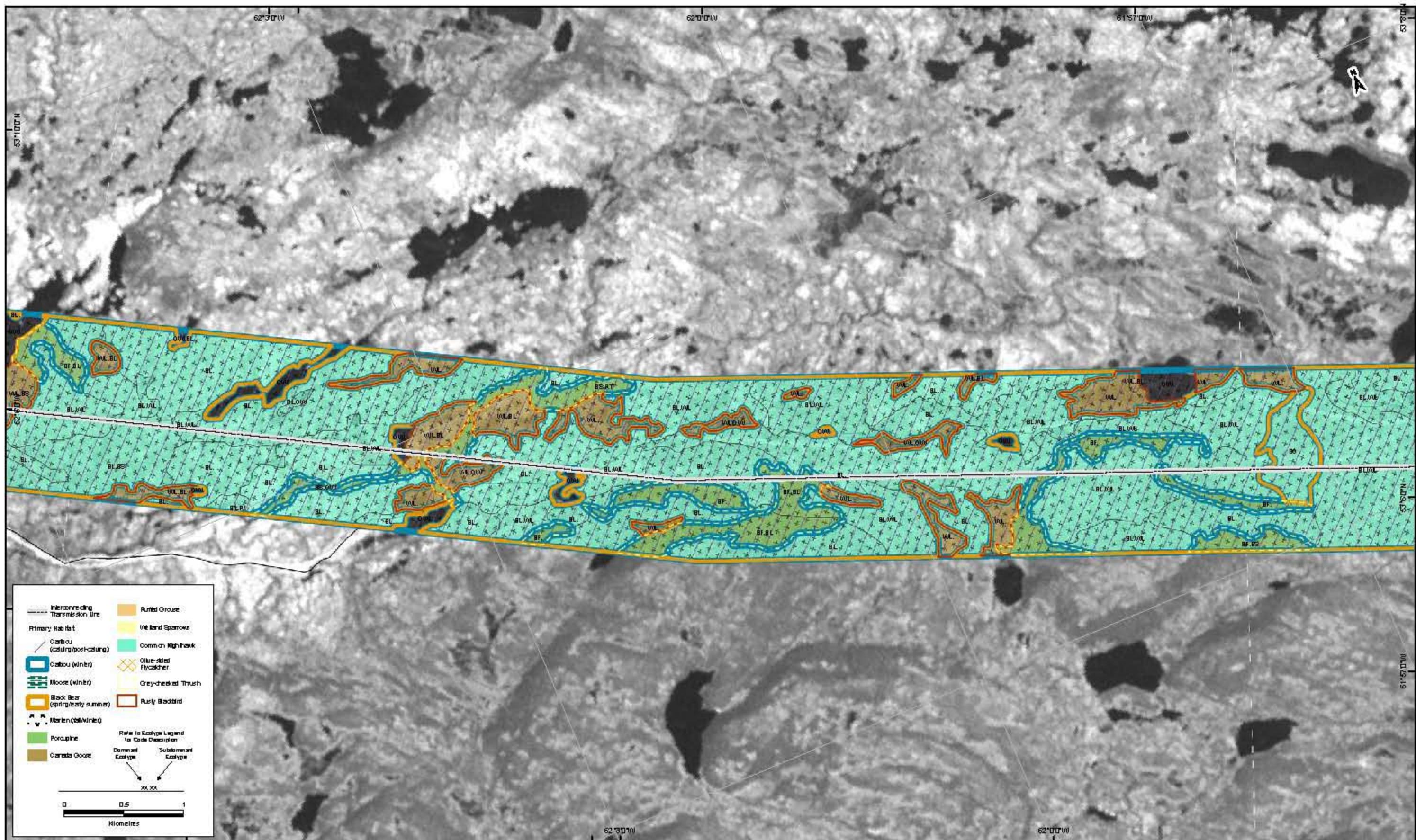


FIGURE NO: IR#JRP.15-12	
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008



**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

FIGURE NO:  
IR#JRP.15-13

DRFT DATE: 05/26/2008  
REVISION DATE: 05/26/19/2008

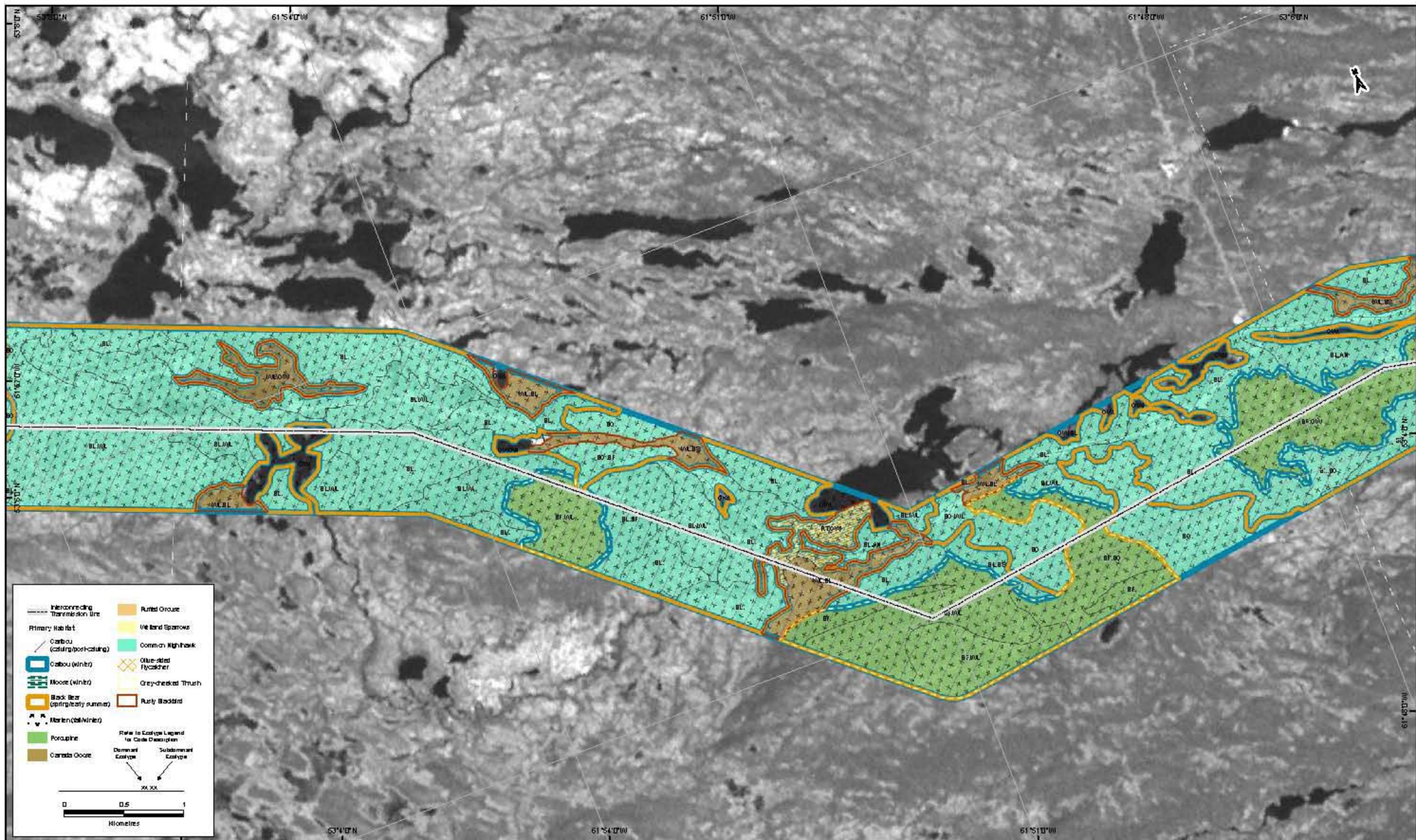
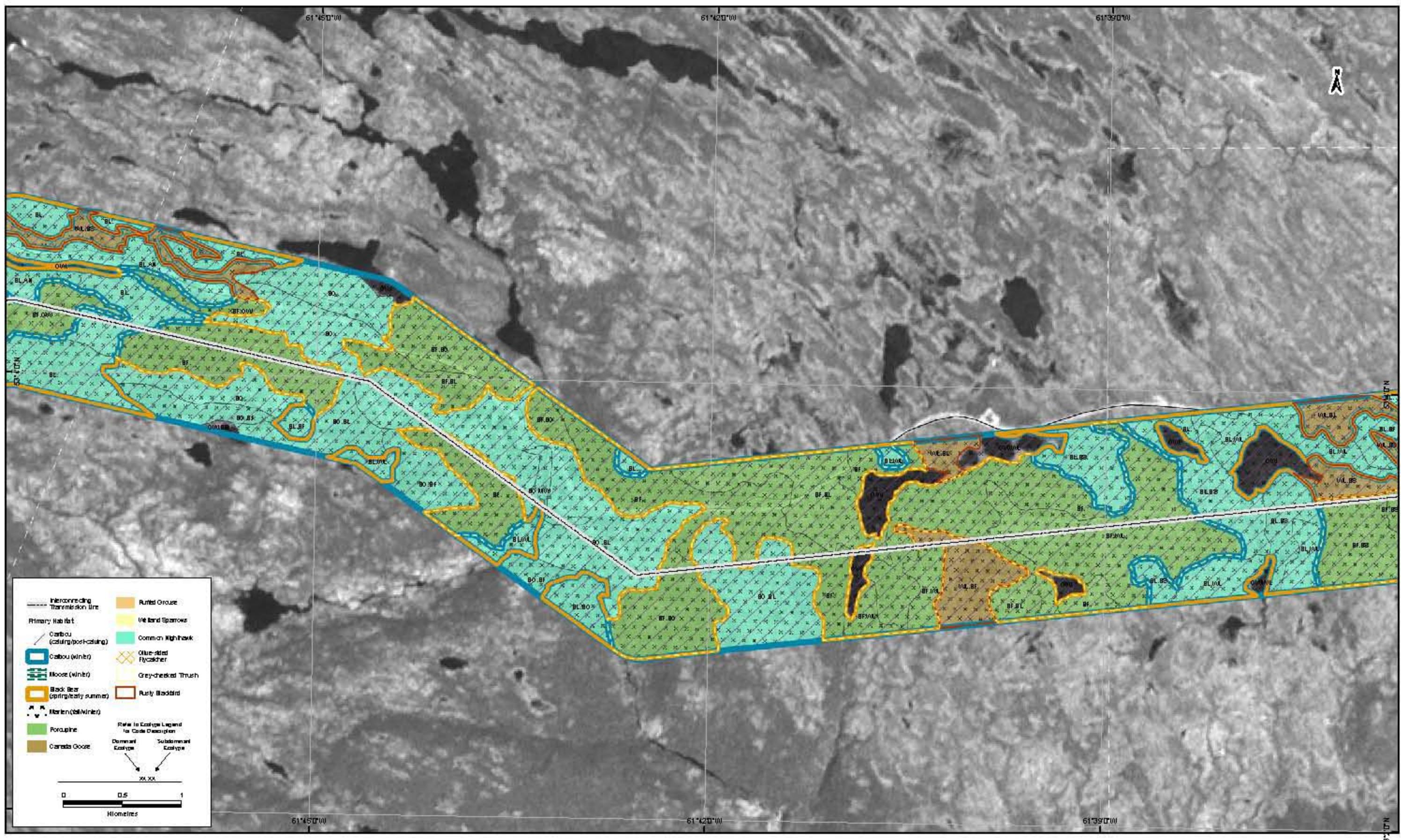


FIGURE NO:	IR#JRP.15-14
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

FIGURE NO: IR#JRP.15-15	
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DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008

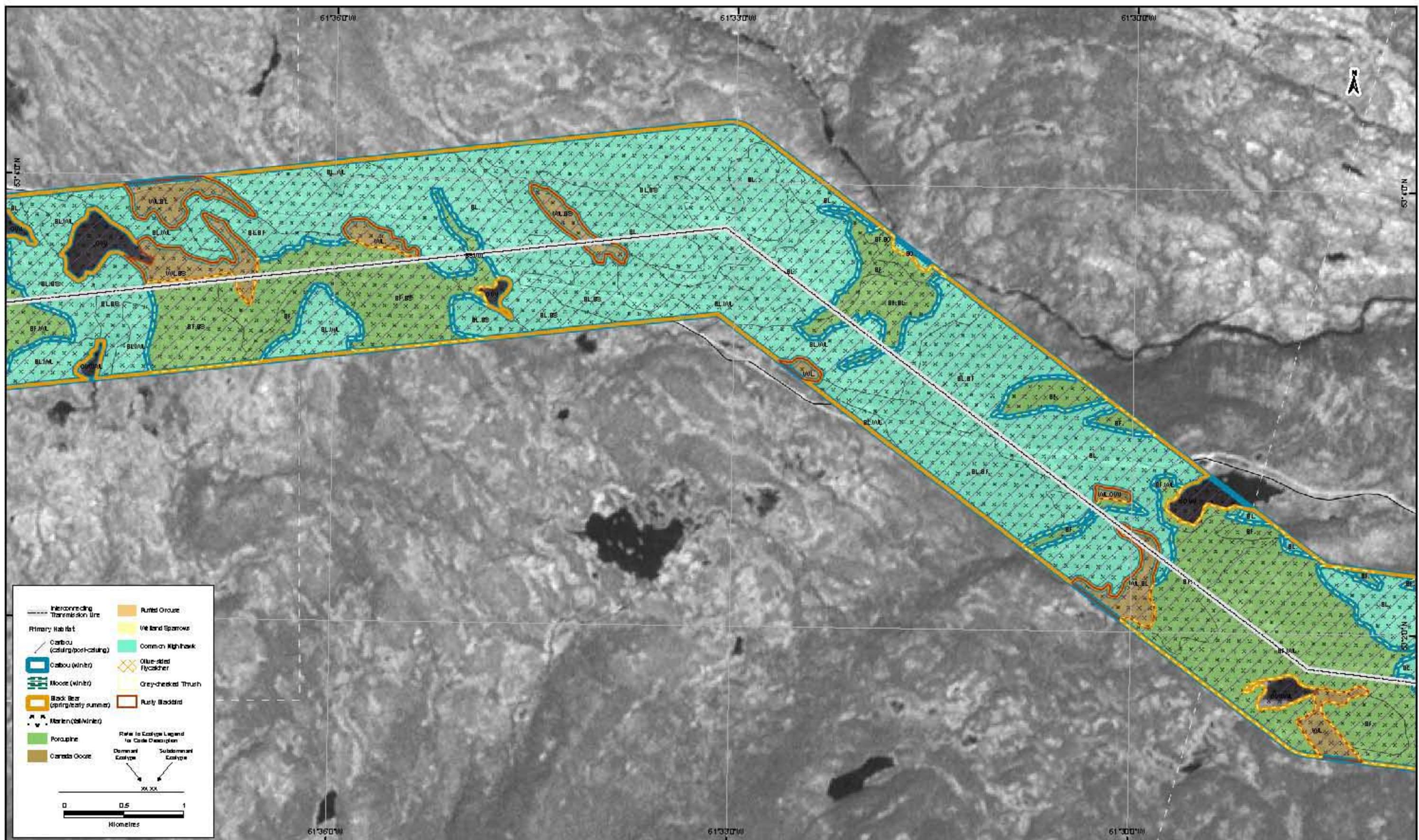
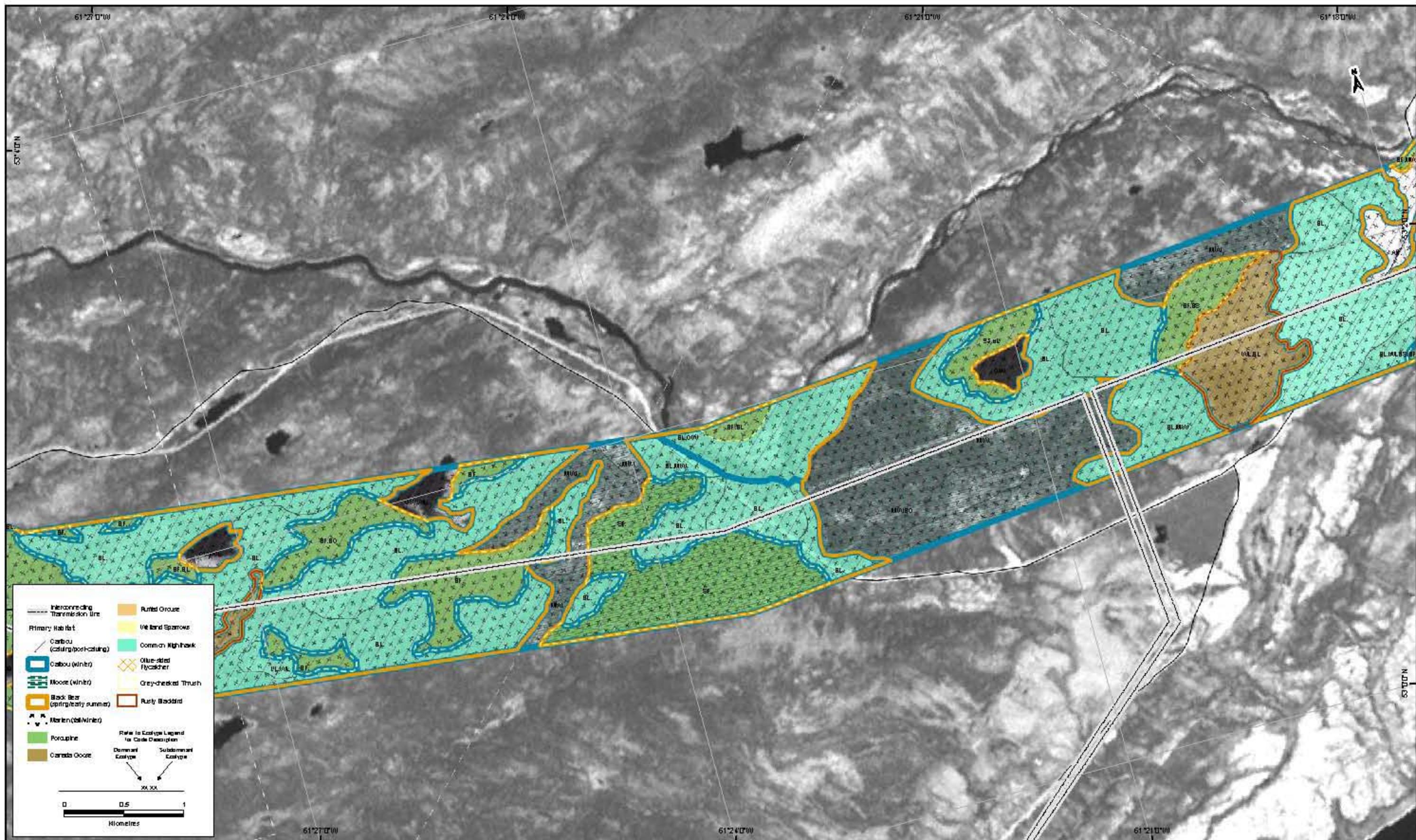


FIGURE NO:	IR#JRP.15-16
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IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008



**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

FIGURE NO:  
IR#JRP.15-17

DRFT DATE:  
05/26/2008  
REVISION DATE:  
05/26/19/2008

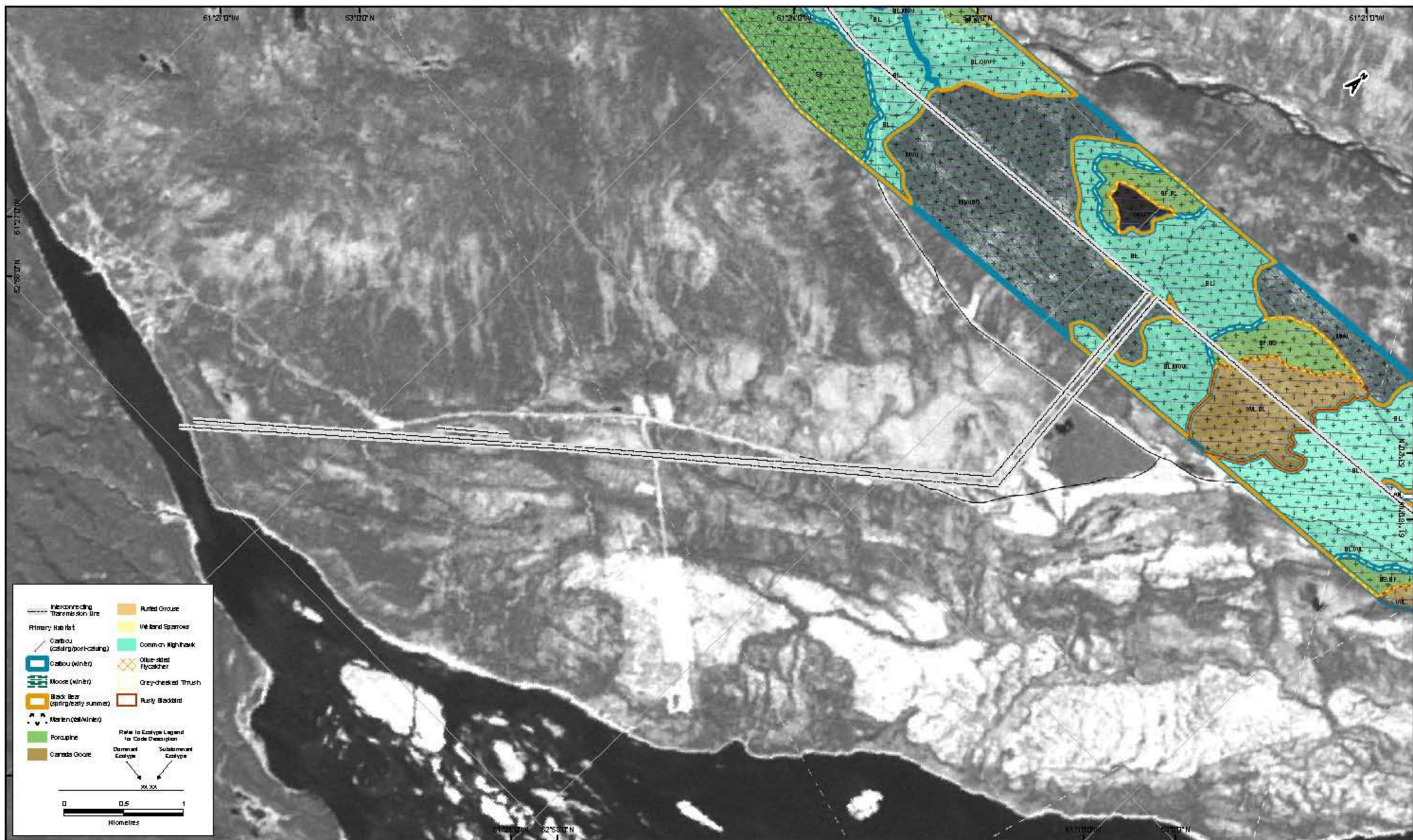


FIGURE NO:	IR#JRP.15-18
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

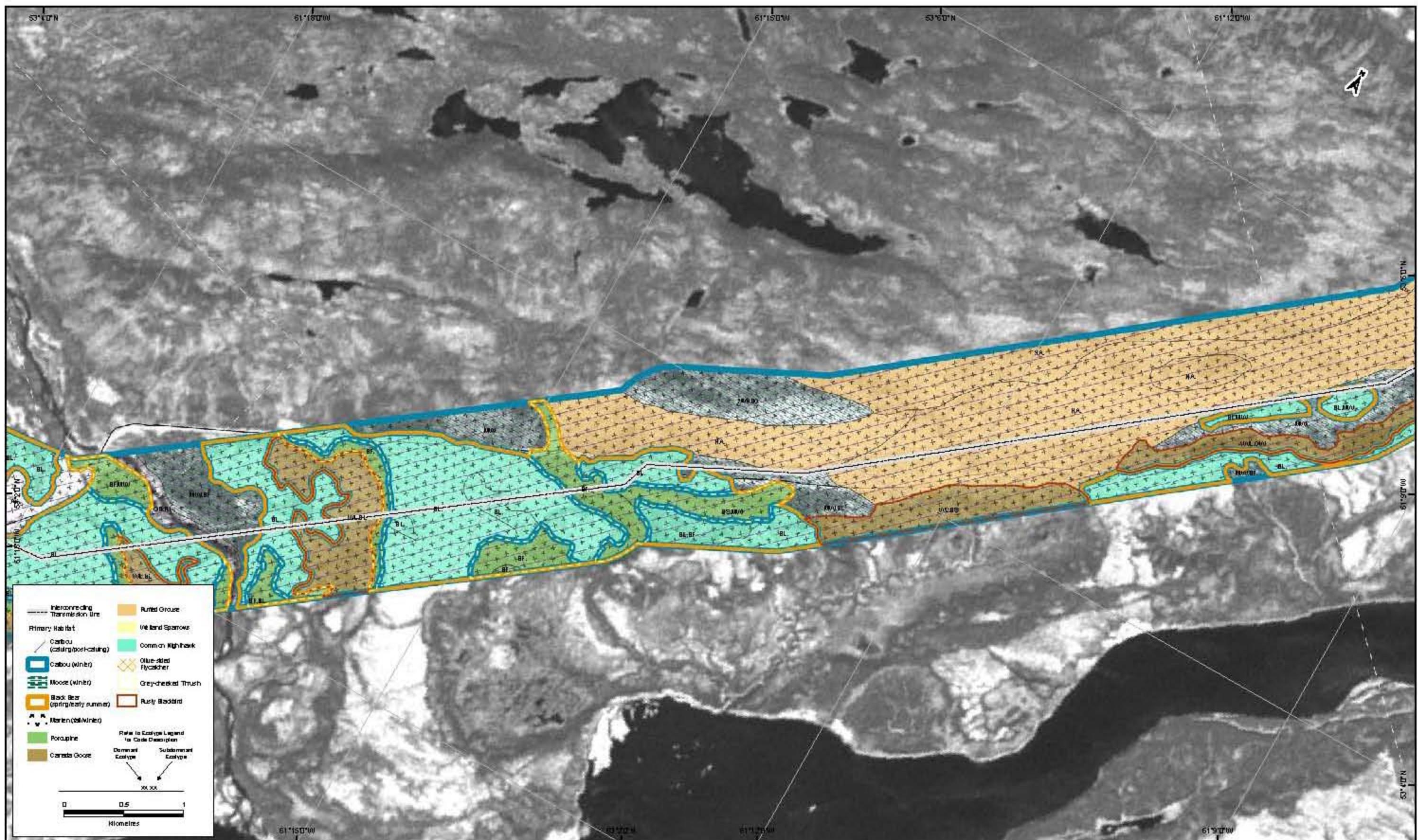


FIGURE NO:	IR#JRP.15-19
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

DRAFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

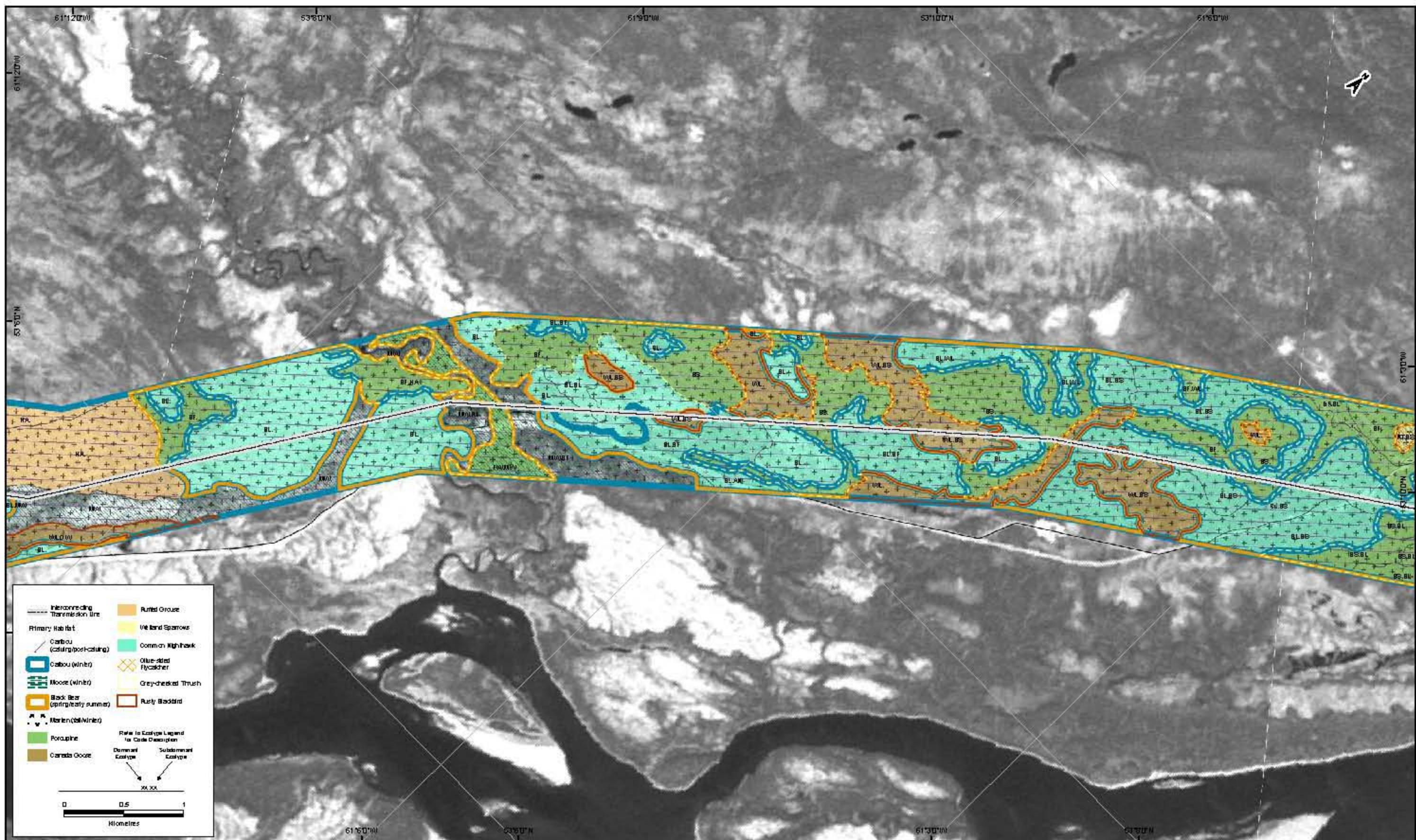


FIGURE NO:	IR#JRP.15-20
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**IR JRP.15**  
**Primary Habitat for Individual Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

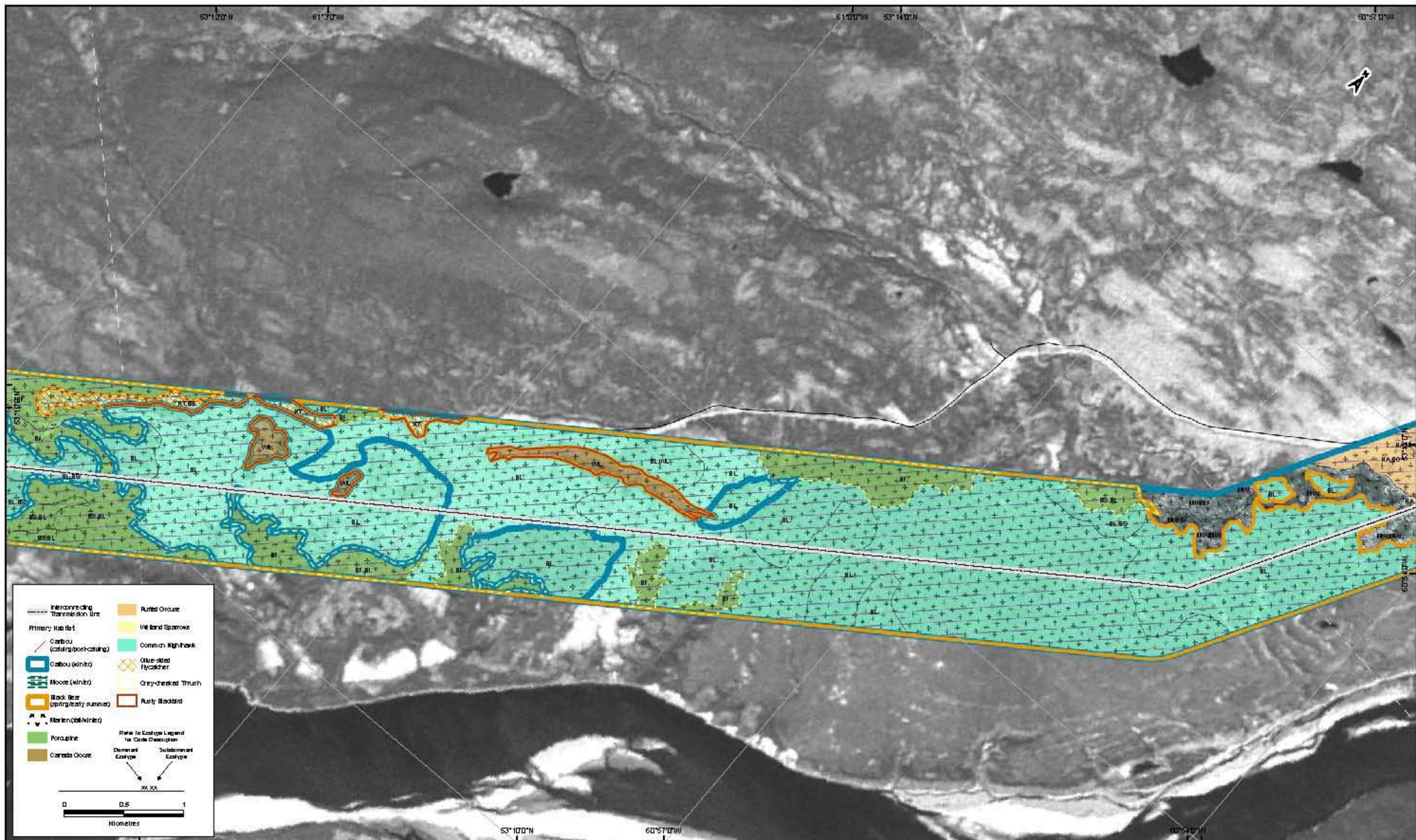


FIGURE NO:	IR#JRP.15-21
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**IR JRP.15**  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

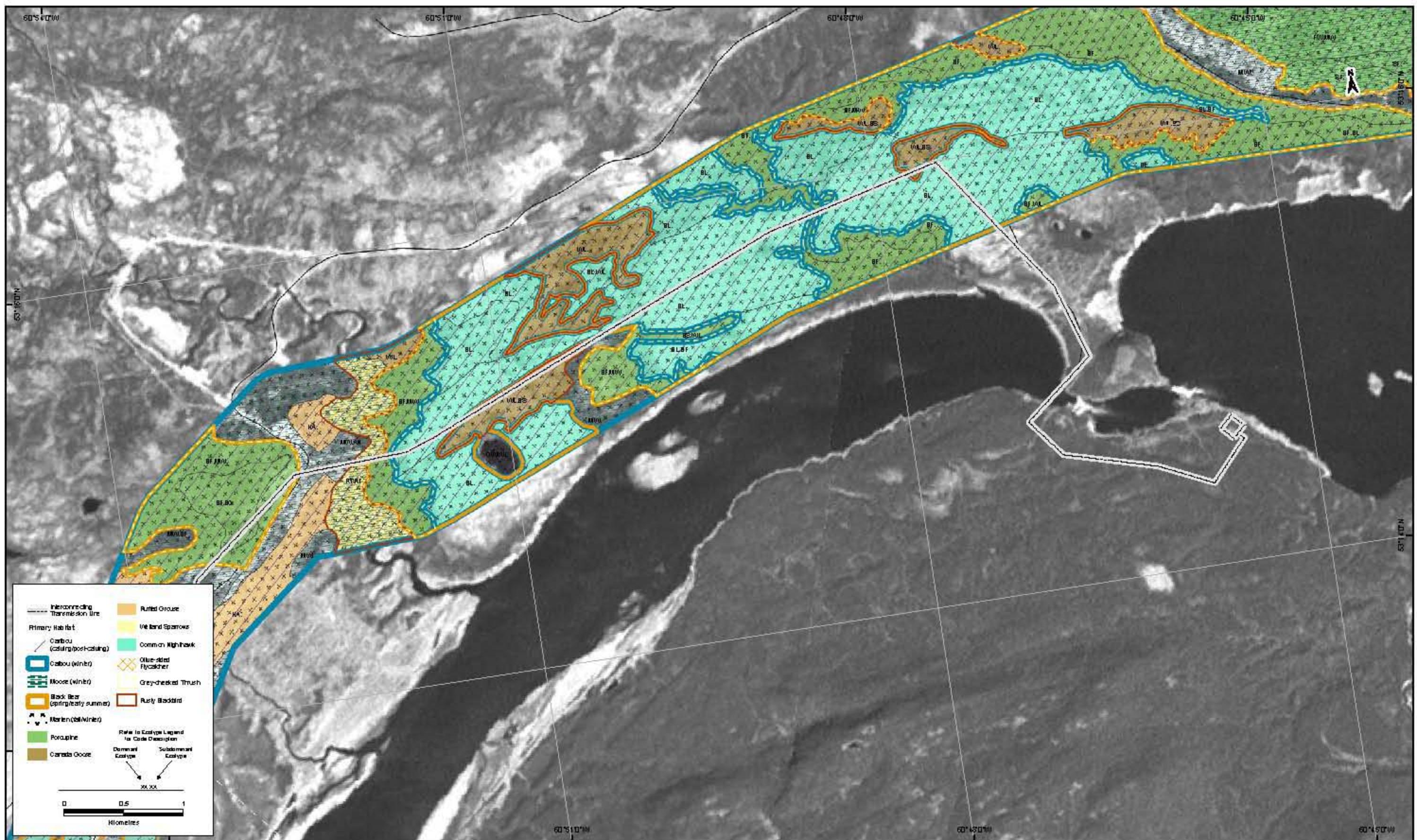


FIGURE NO:	IR#JRP.15-22
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IR JRP.15  
Primary Habitat for Individual Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	DS/26/2008
REVISION DATE:	DS/26/19/2008

ELC Code	Ecotype Name	ELC Code	Ecotype Name
AN	Anthropogenic	LB	Low Shrub Bog
BF	Black Spruce - Feather Moss	MA	Marsh
BL	Black Spruce - Lichen Woodland	MW	Mixedwood
BO	Black Spruce on Outcropping	OW	Open Water
BS	Black Spruce - Sphagnum Woodland	RI	River
FE	Fen	RM	Riparian Meadow
FW	Fir/White Spruce Woodland	RT	Riparian Thicket
GB	Gravel Bar	SF	Spruce/Fir Feathemoss
HA	Hardwood	UV	Unvegetated
		WL	Wetland

	IR JRP.15
	Composite Mapping (Terrestrial Environment) Ecotype Land Classification Legend

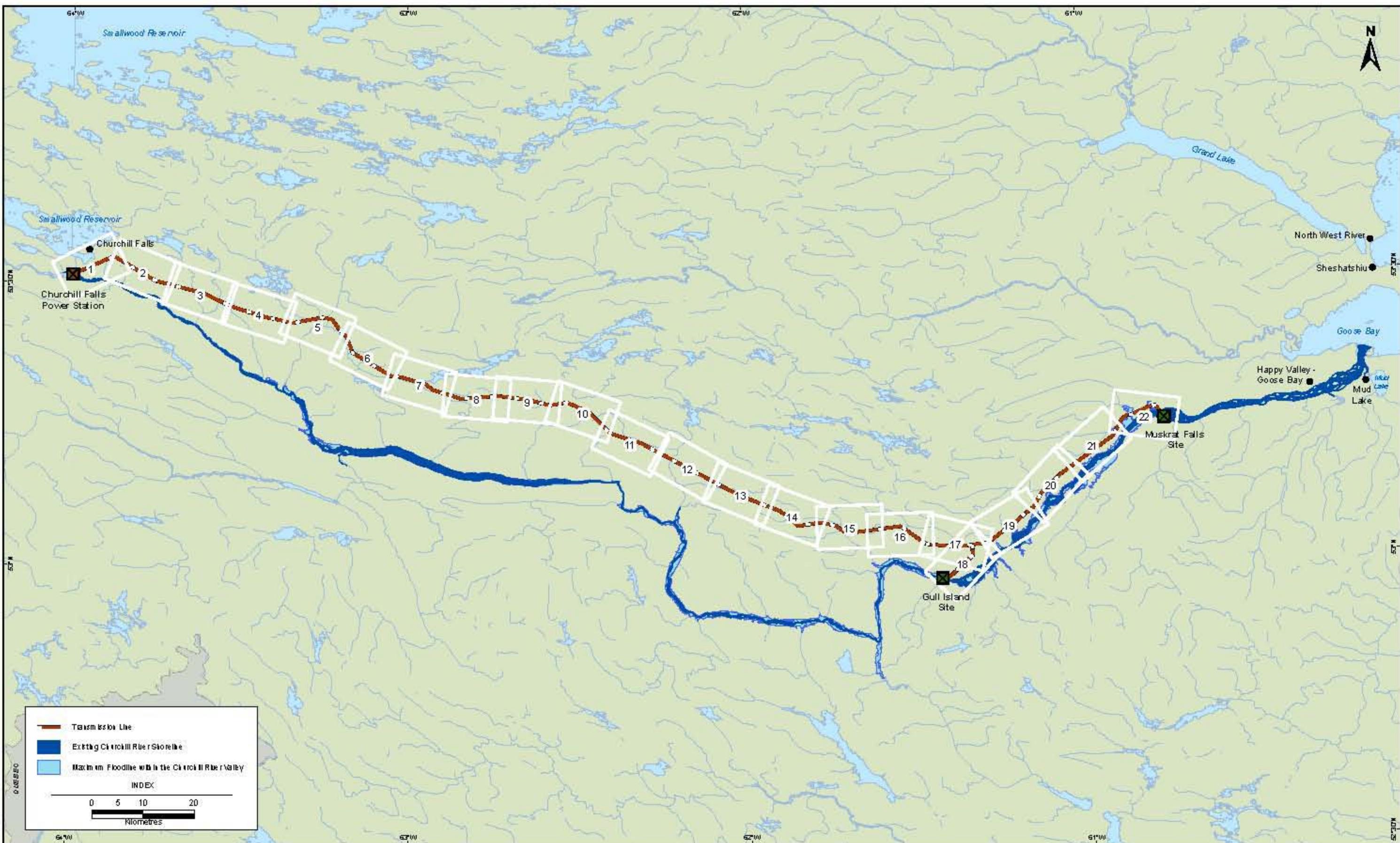


FIGURE NO:	INDEX	IR JRP.15 Composite Mapping of Primary Habitat for Terrestrial Key Indicators for Interconnecting Transmission Line - Index	DRAFT DATE: 22/05/2009
			REVISION DATE: 06/05/2009

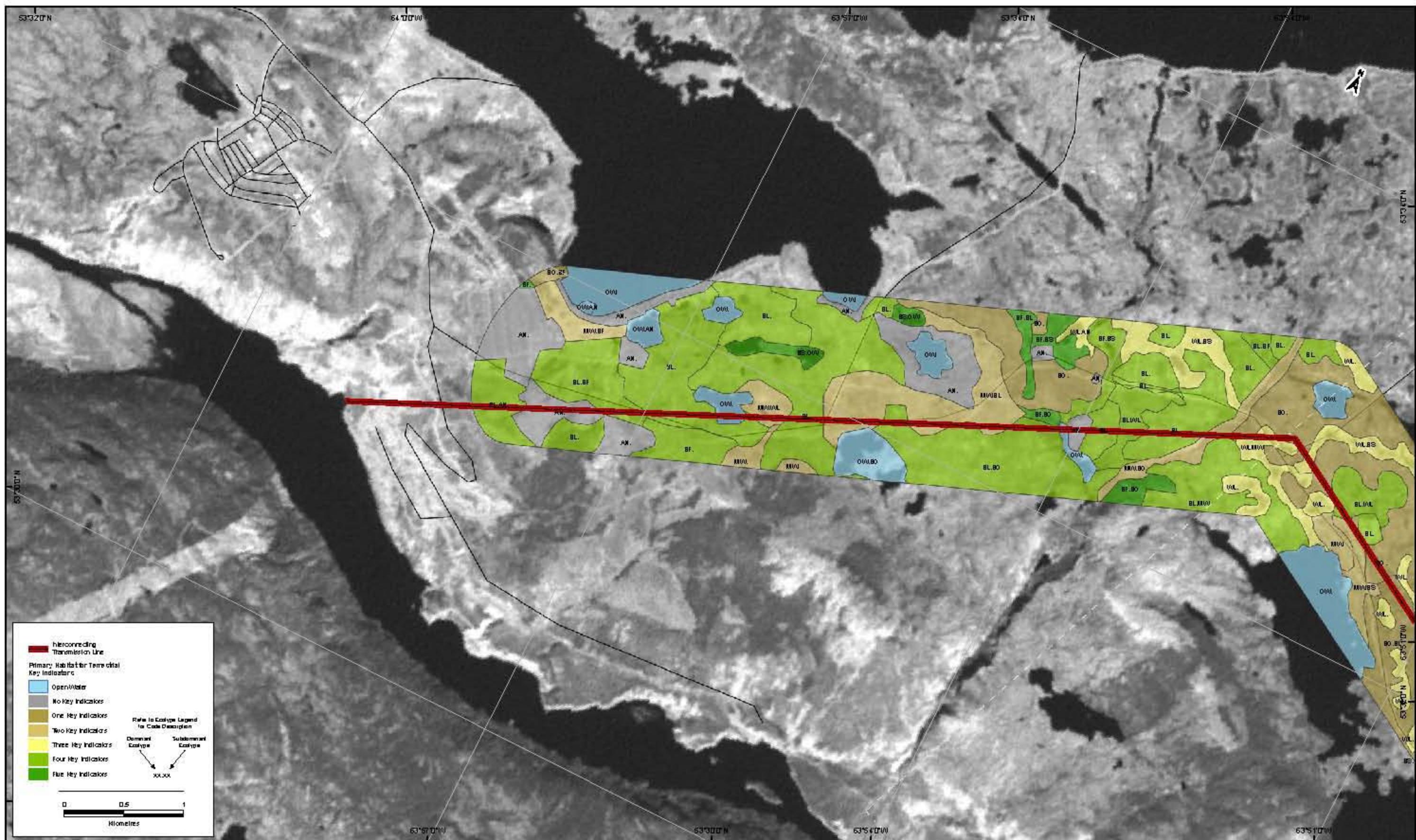


FIGURE NO.	IR#JRP.15-1
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

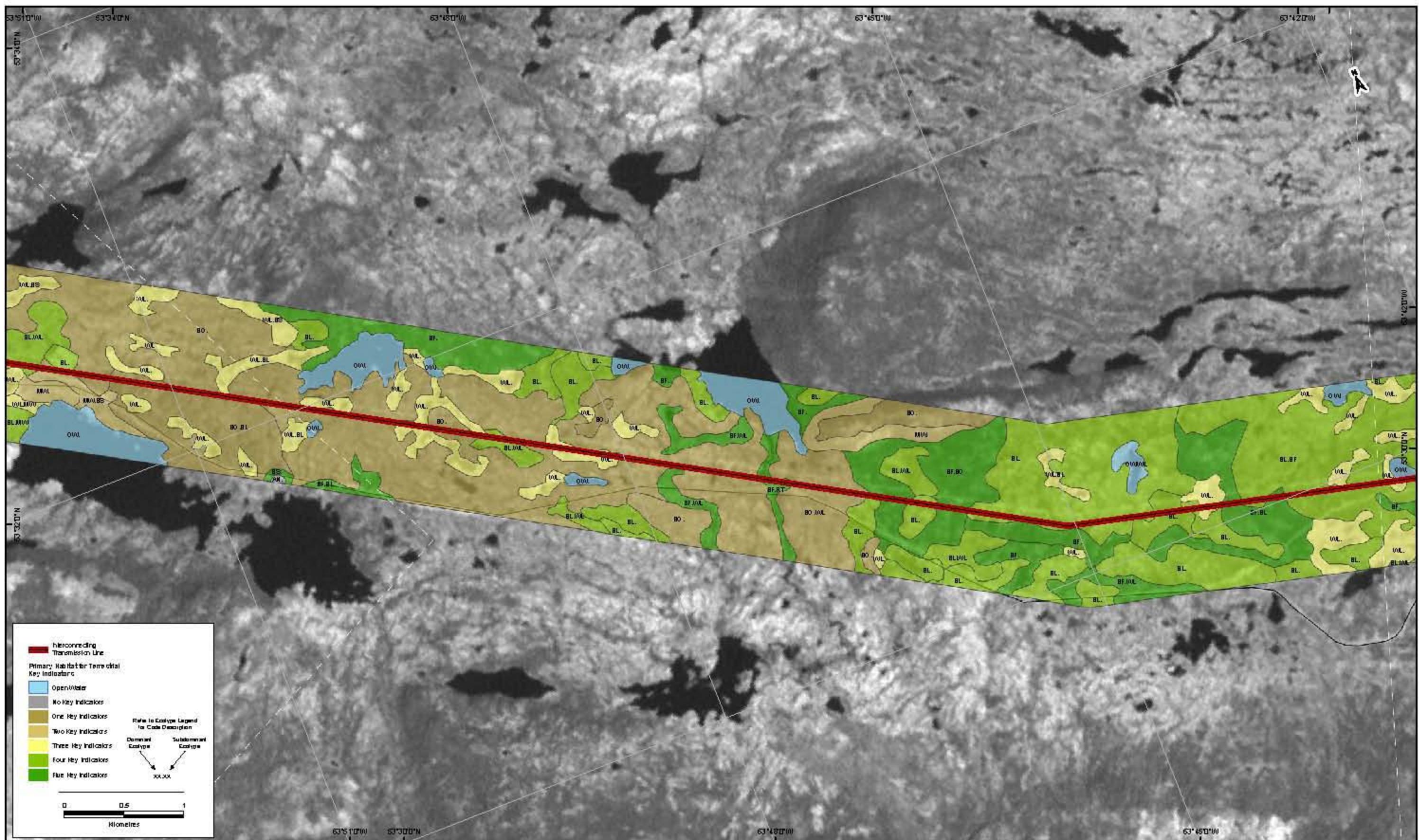


FIGURE NO:	IR#JRP.15-2
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

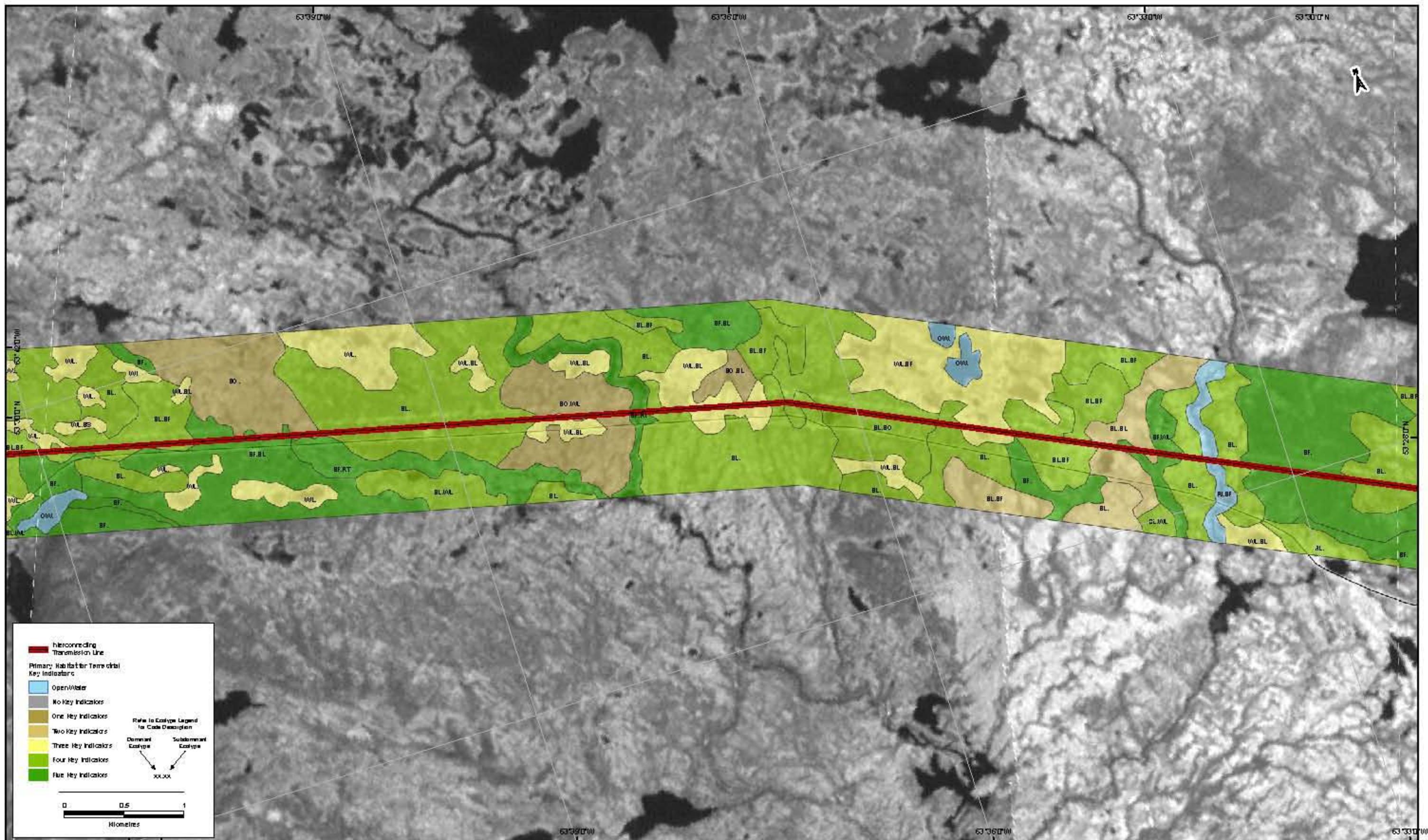


FIGURE NO: IR#JRP.15-3
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008

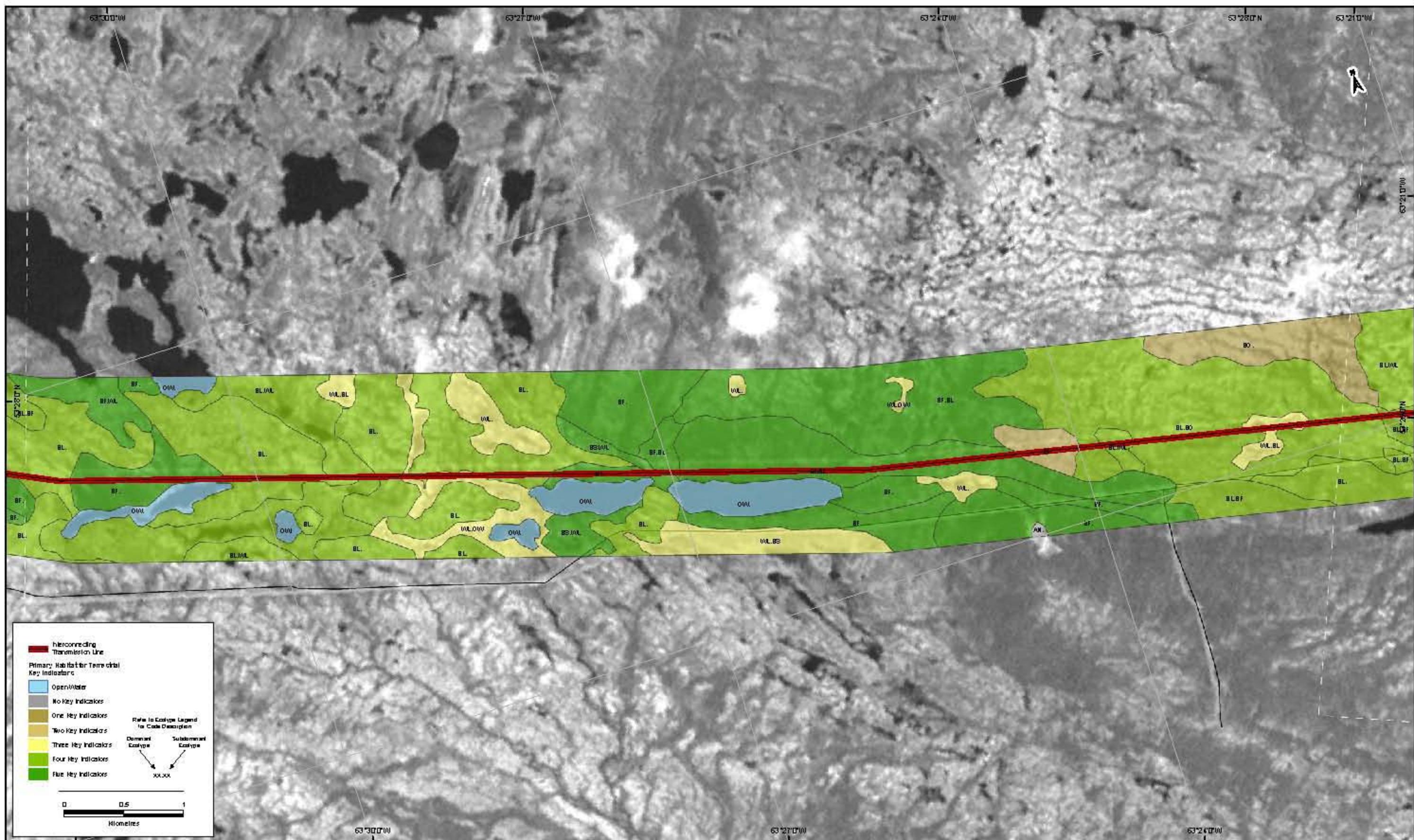


FIGURE NO:	IR#JRP.15-4
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

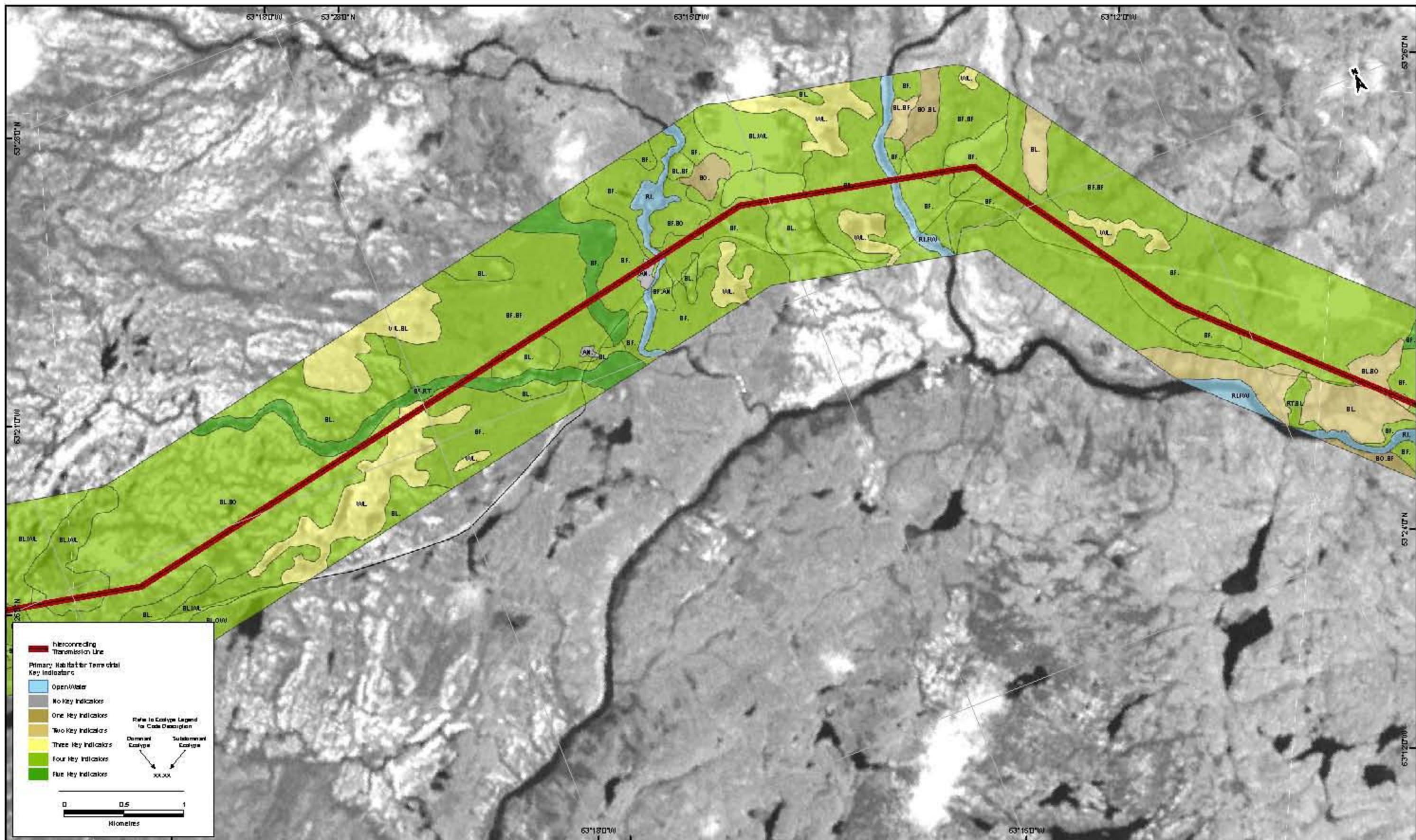


FIGURE NO: IR#JRP.15-5
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008

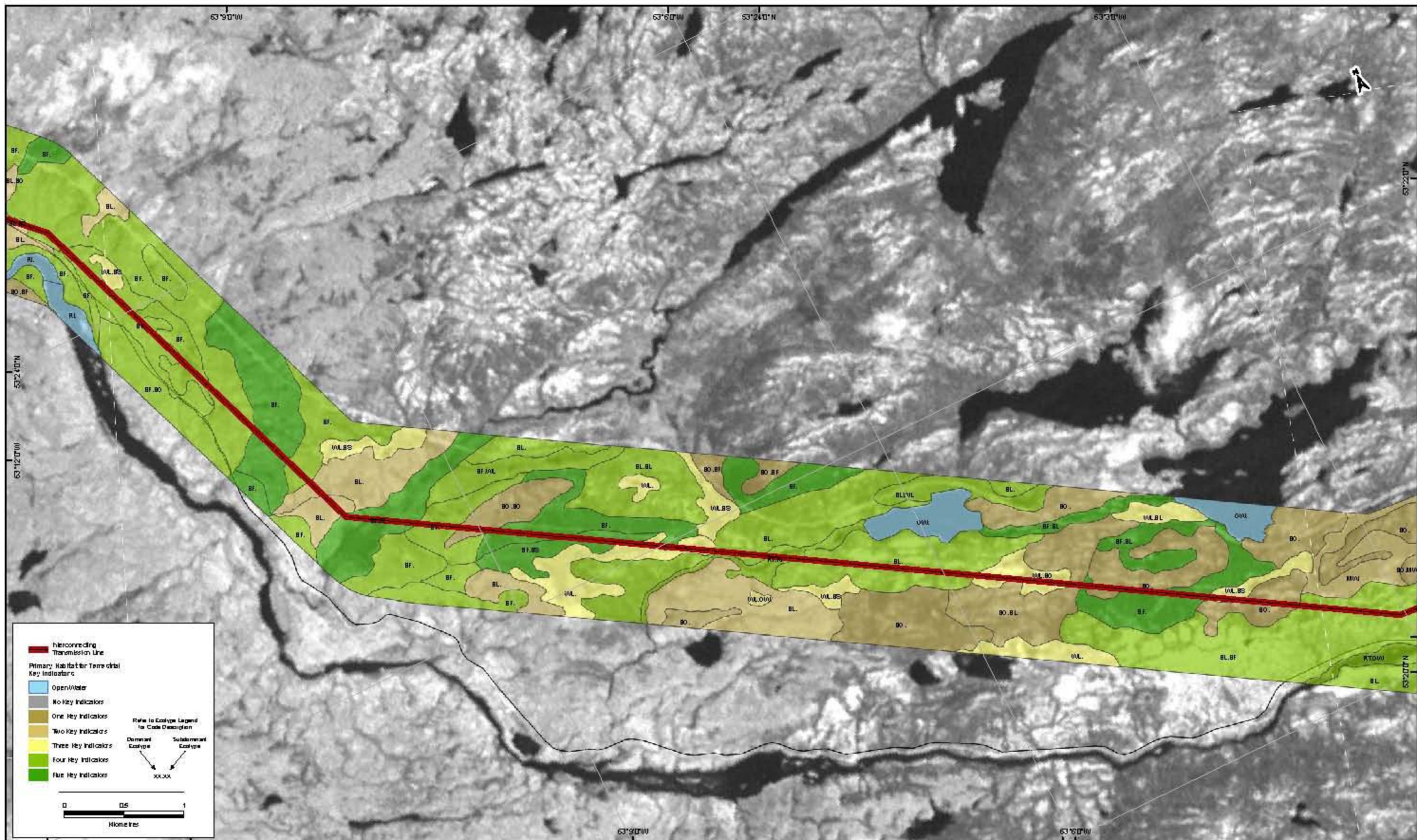


FIGURE NO.	IR#JRP.15-6
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

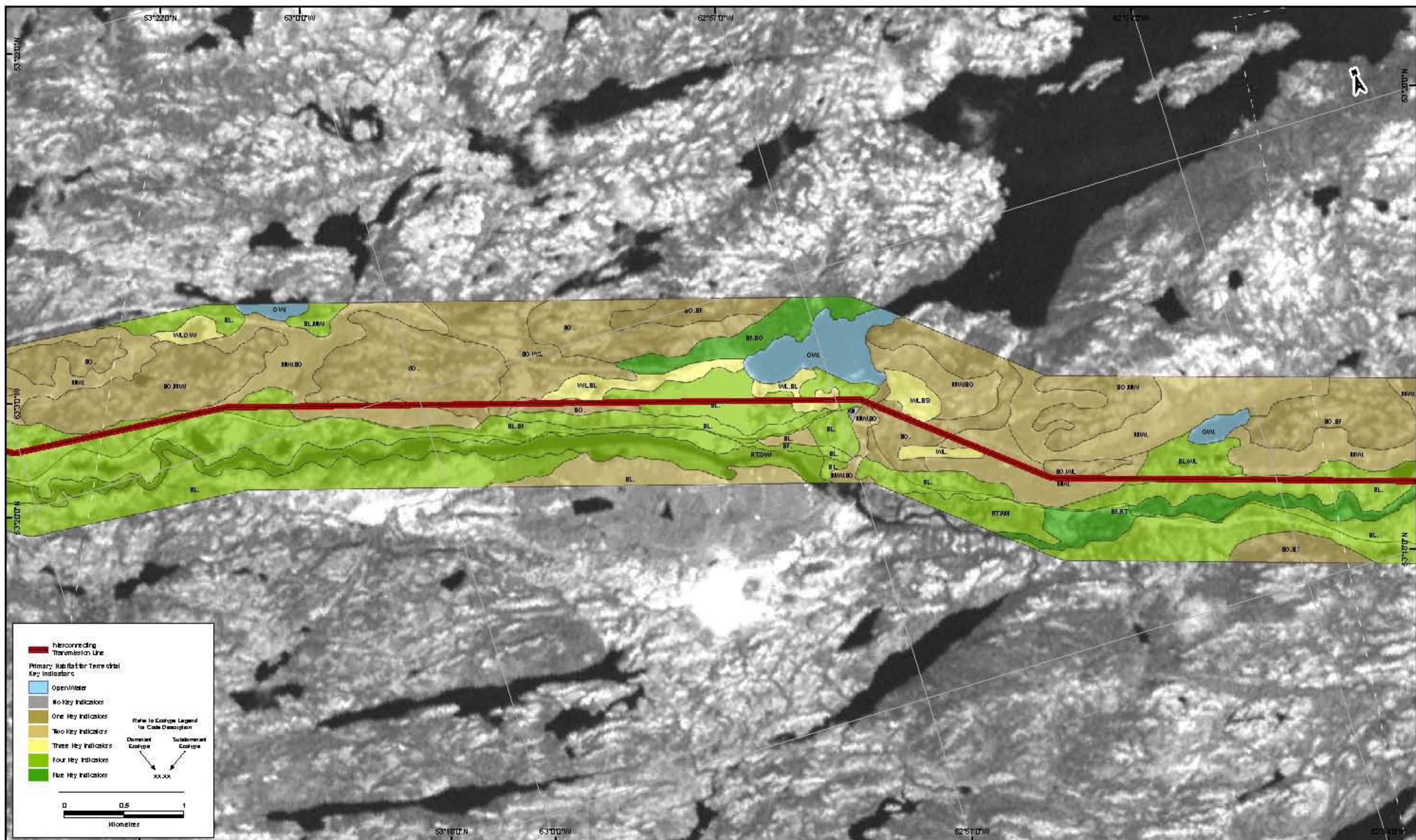


FIGURE NO:	IR#JRP.15-7
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

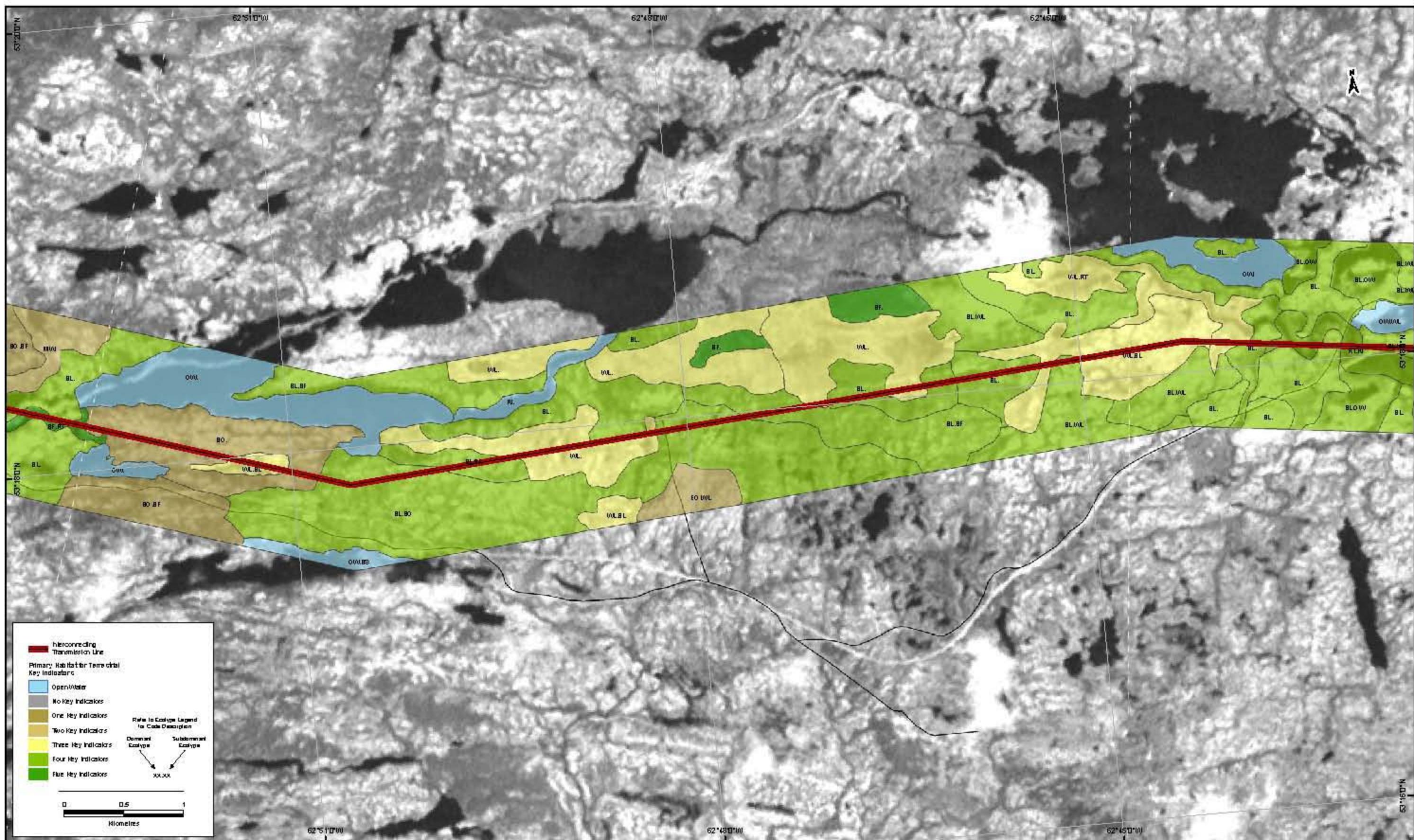


FIGURE NO:	IR#JRP.15-8
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

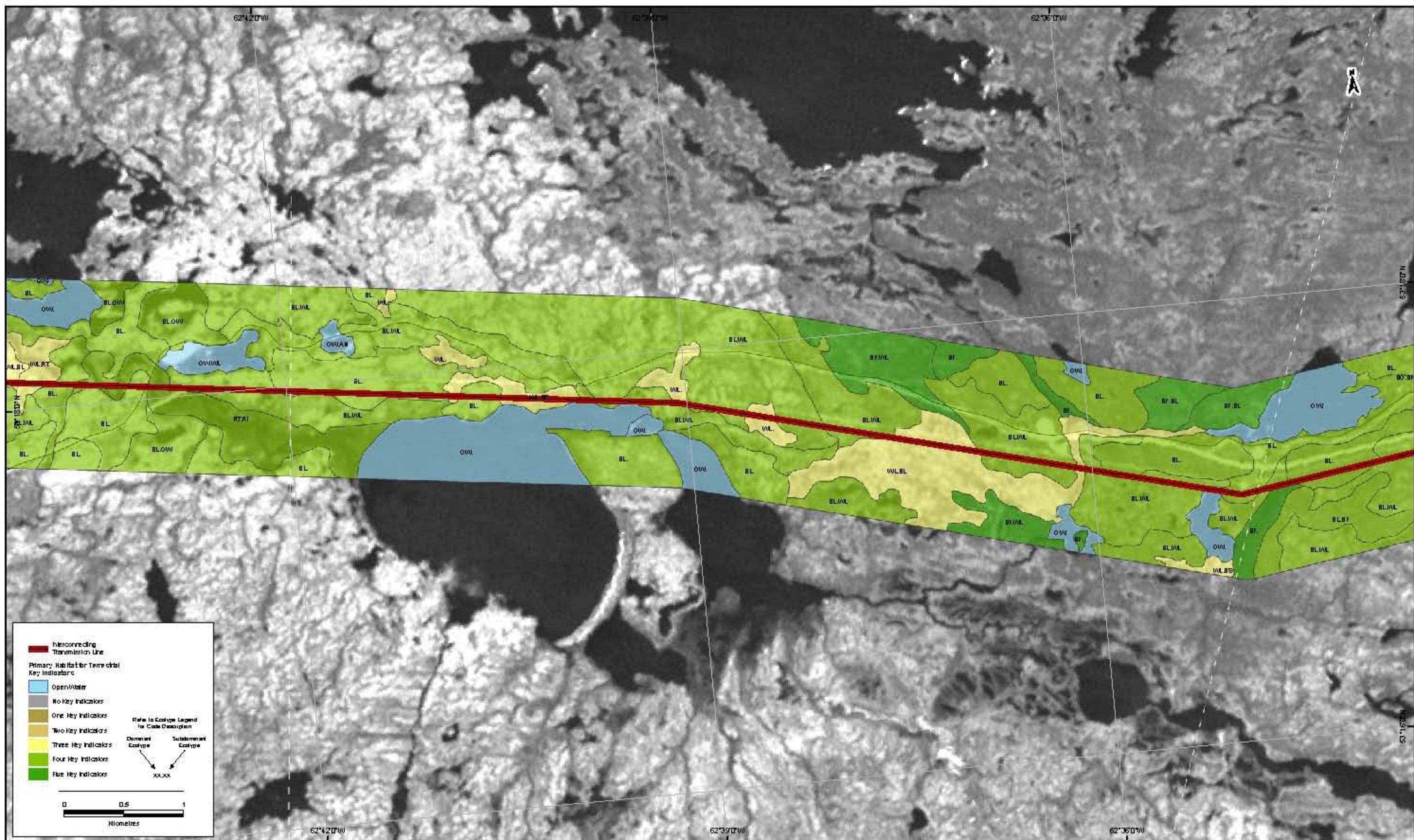


FIGURE NO:  
IR#JRP.15-9

IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE: 05/26/2008  
REVISION DATE: 05/26/19/2008

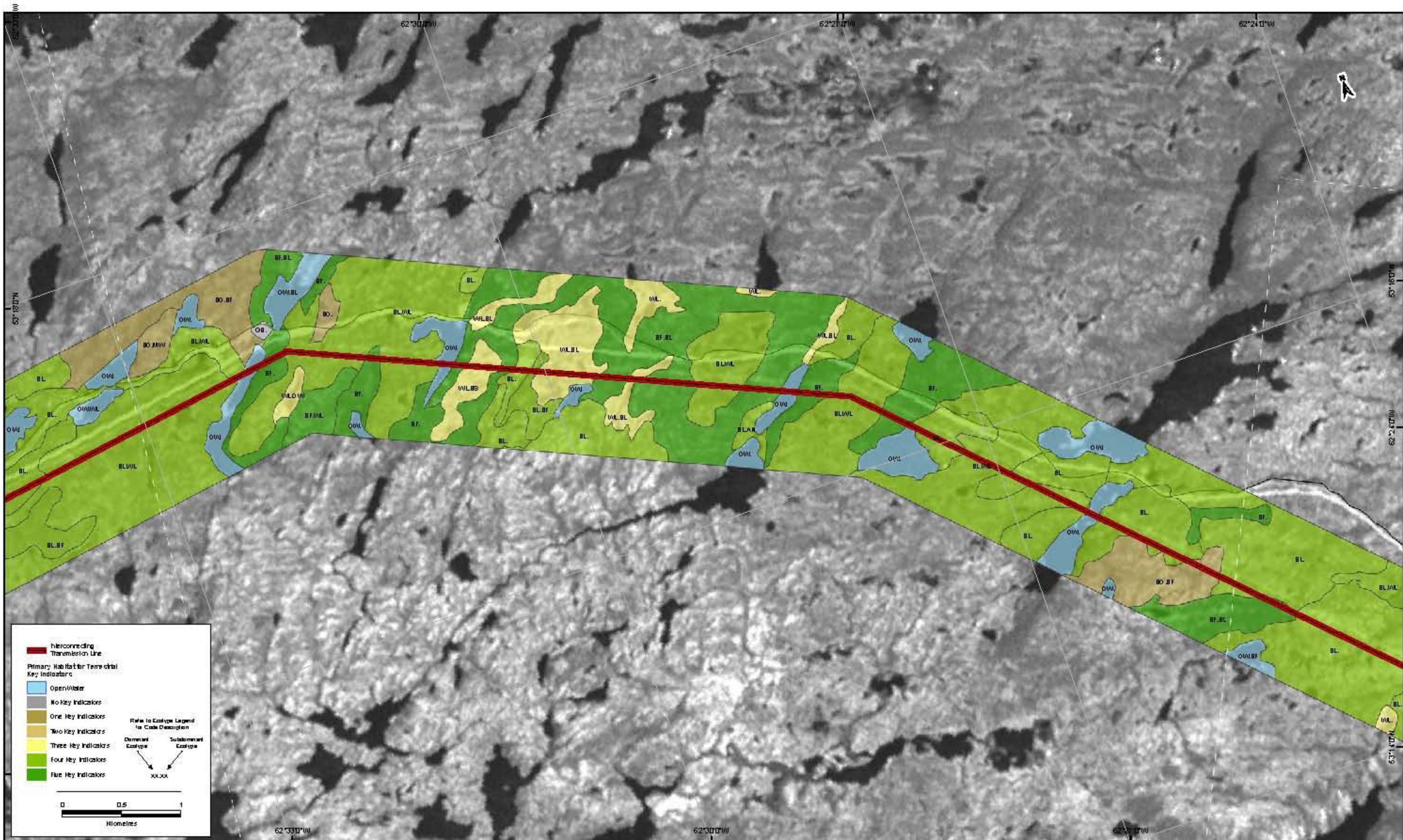


FIGURE NO.	IR#JRP.15-10
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

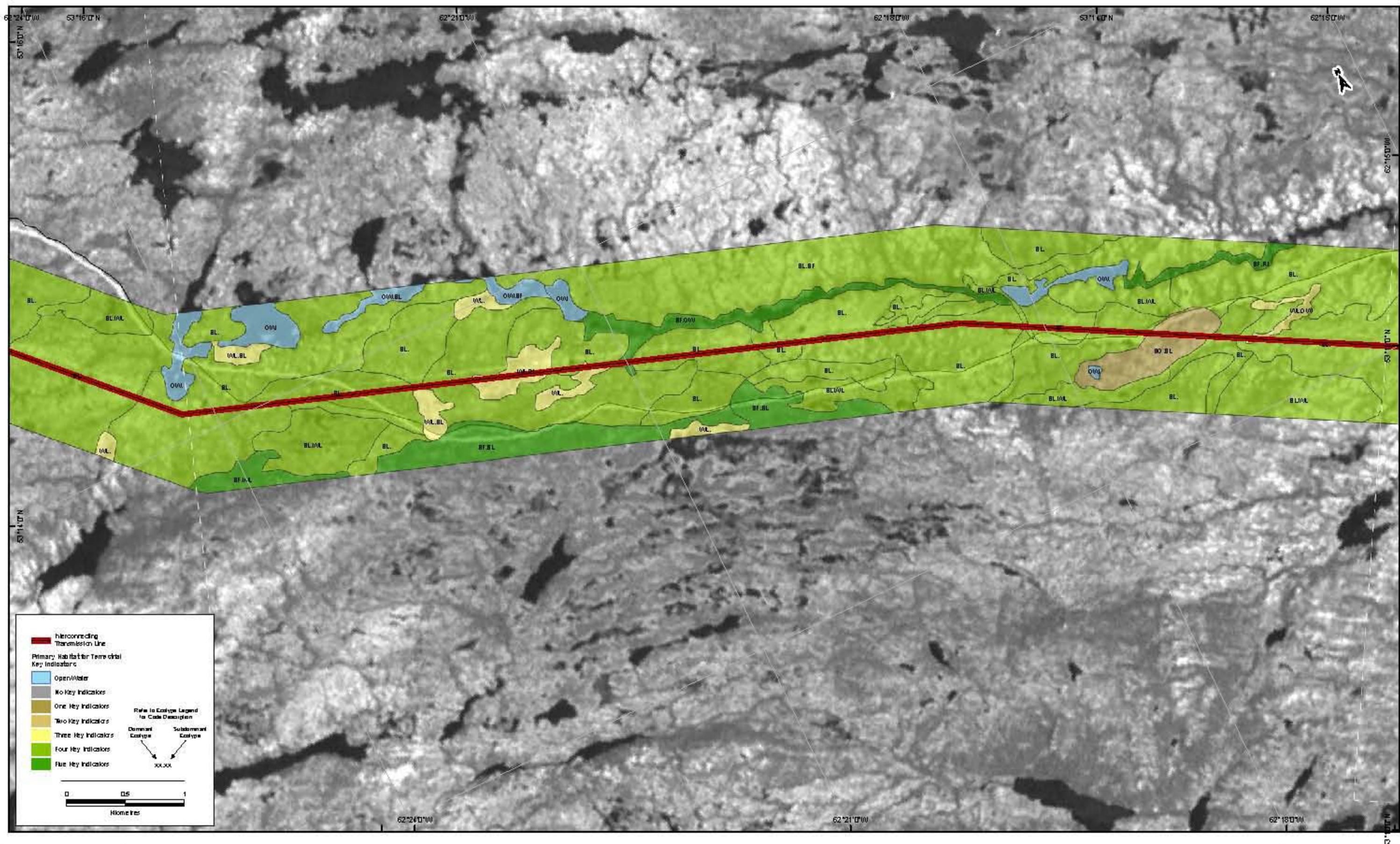


FIGURE NO.	IR#JRP.15-11
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

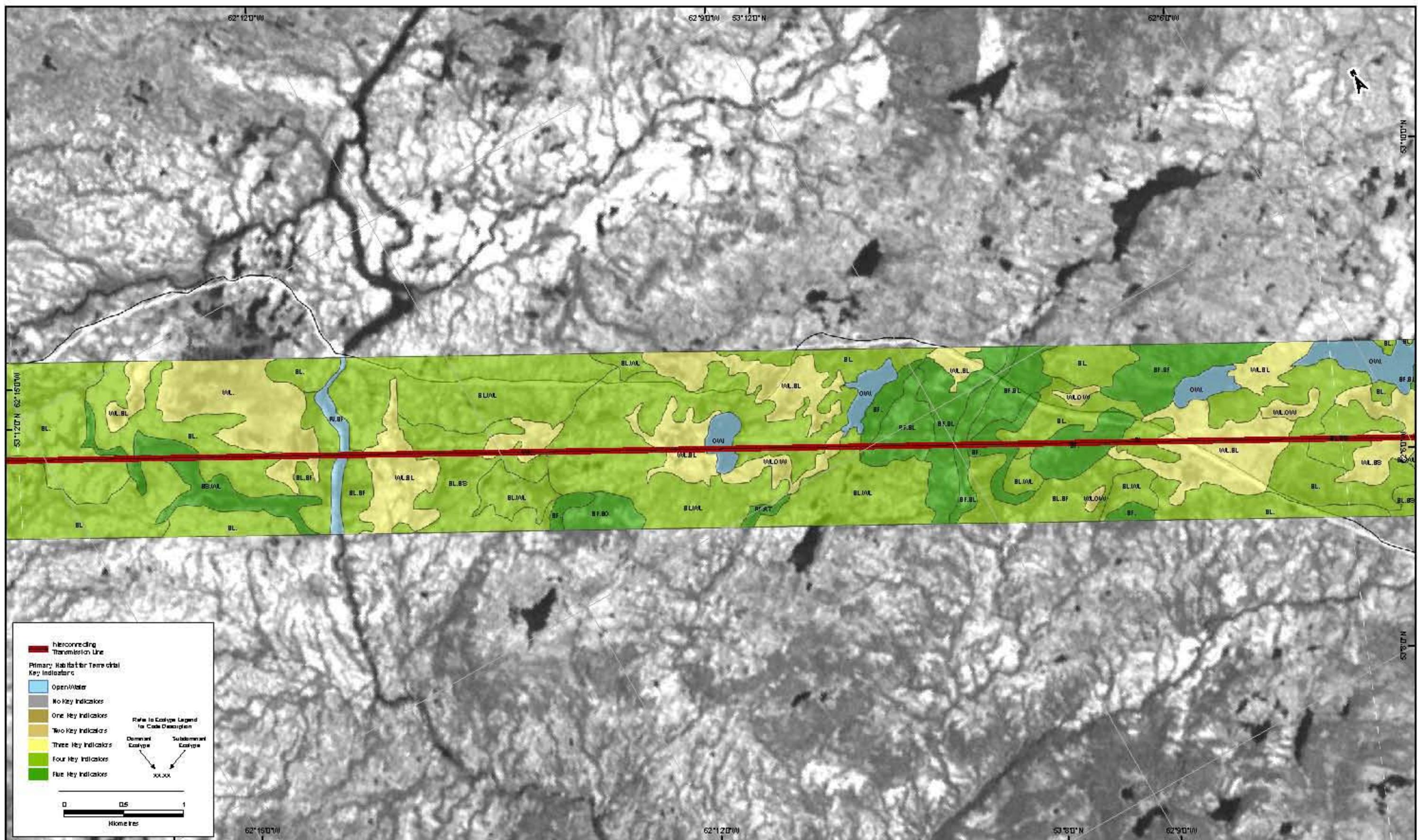


FIGURE NO:  
IR#JRP.15-12

IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFTDATE: 05/26/2008  
REVISION DATE: 05/26/19/2008

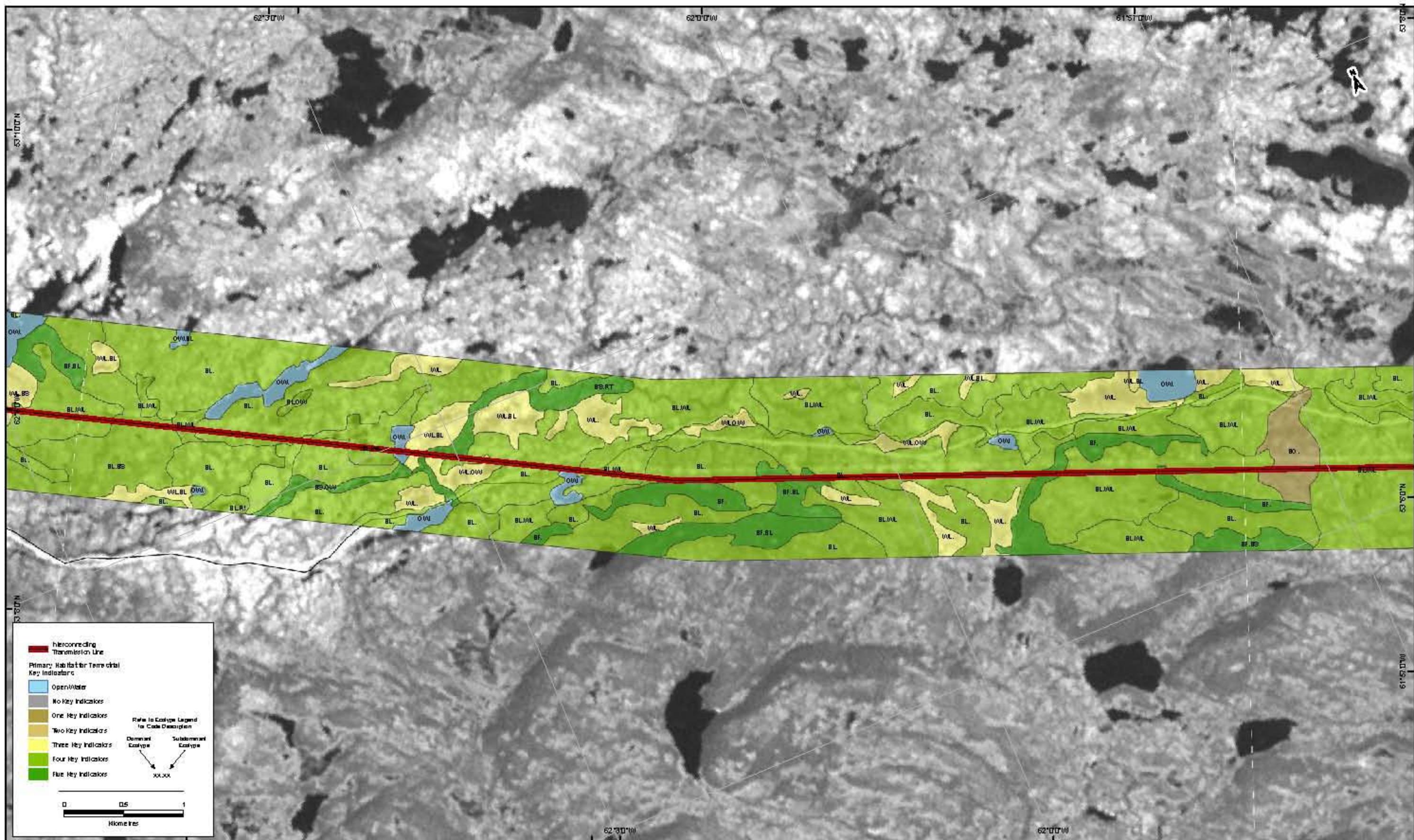


FIGURE NO.	IR#JRP.15-13
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

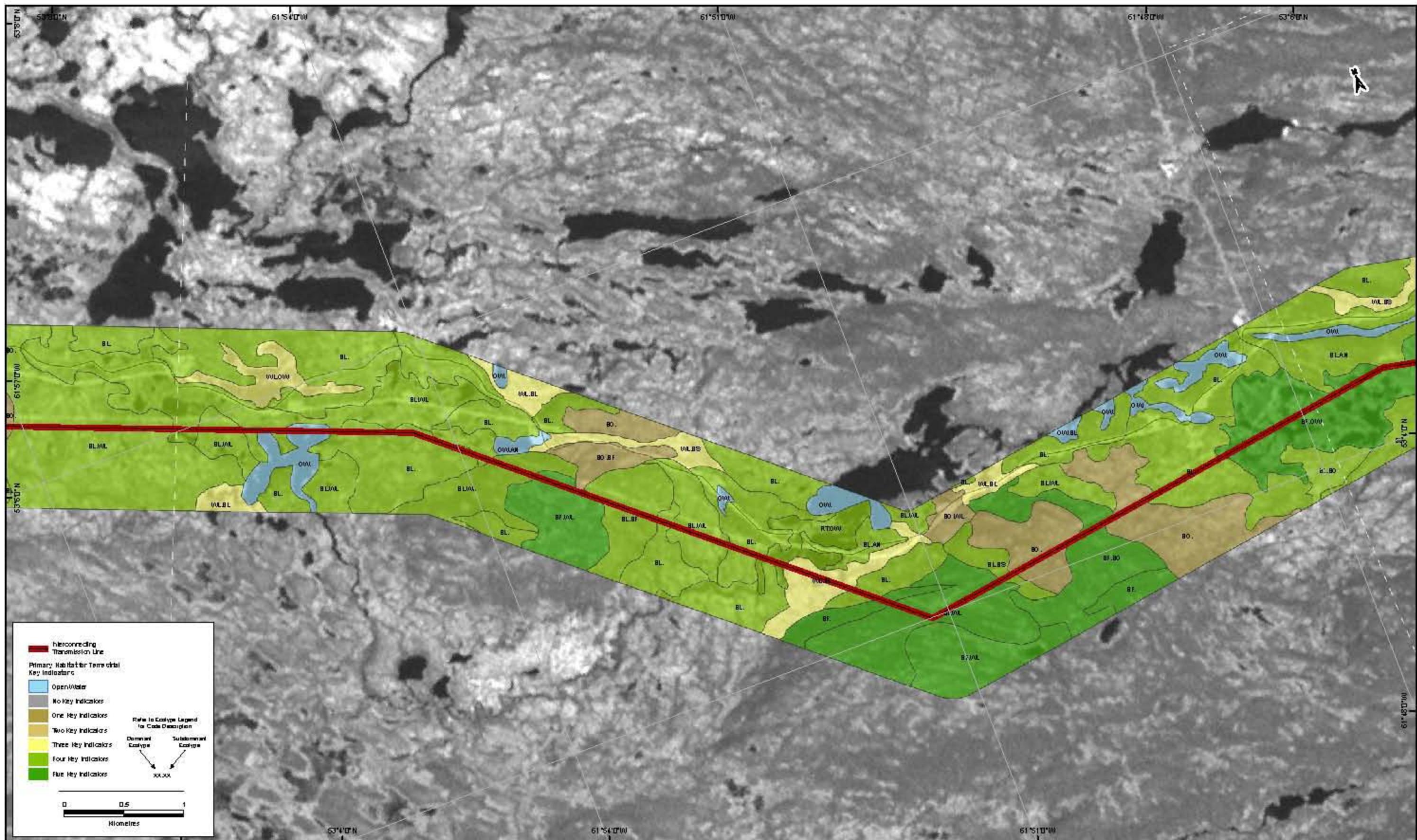


FIGURE NO:  
IR#JRP.15-14

IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE: 05/26/2008  
REVISION DATE: 05/26/19/2008

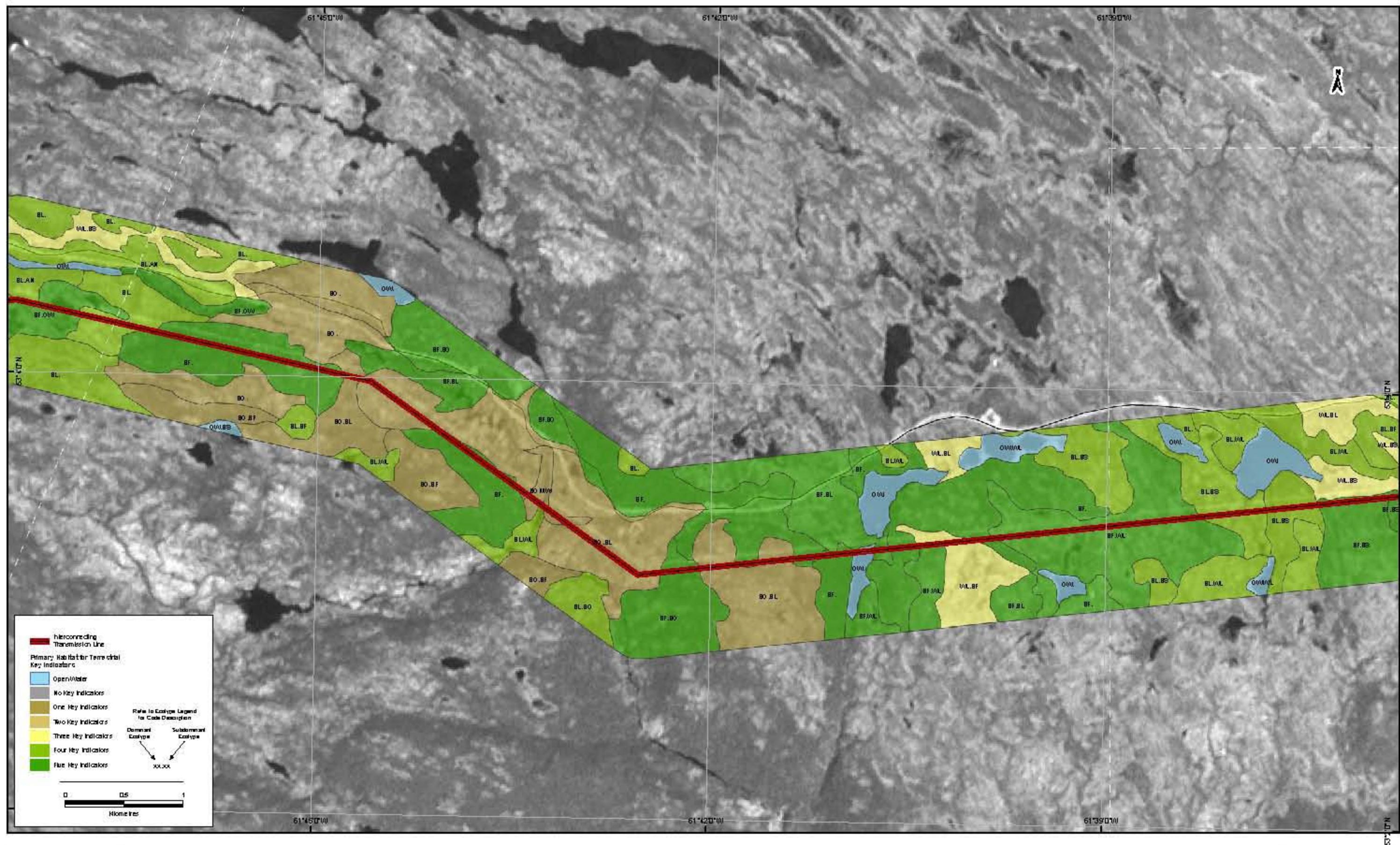


FIGURE NO:	IR#JRP.15-15
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

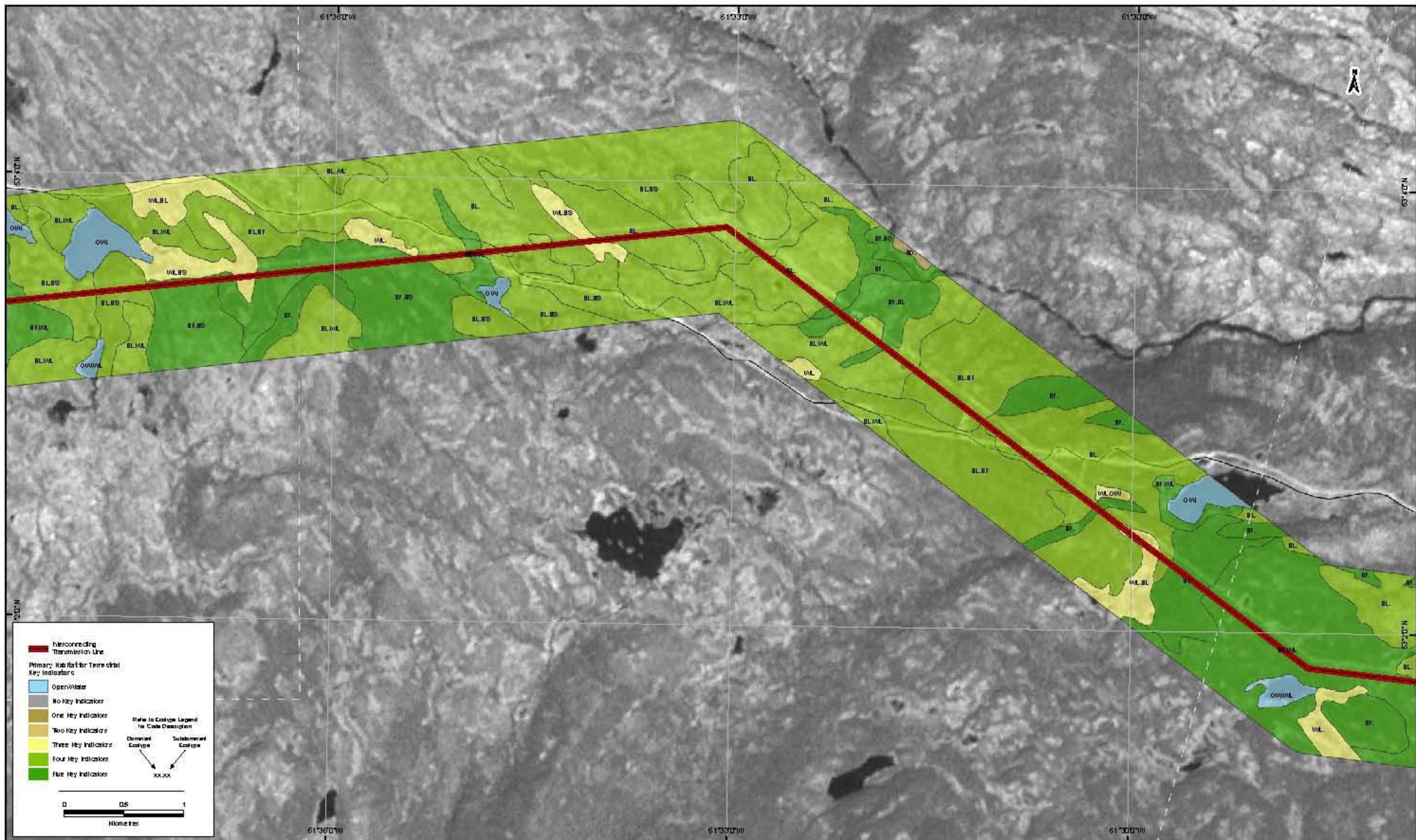


FIGURE NO:	IR#JRP.15-16
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISON DATE:	05/26/19/2008

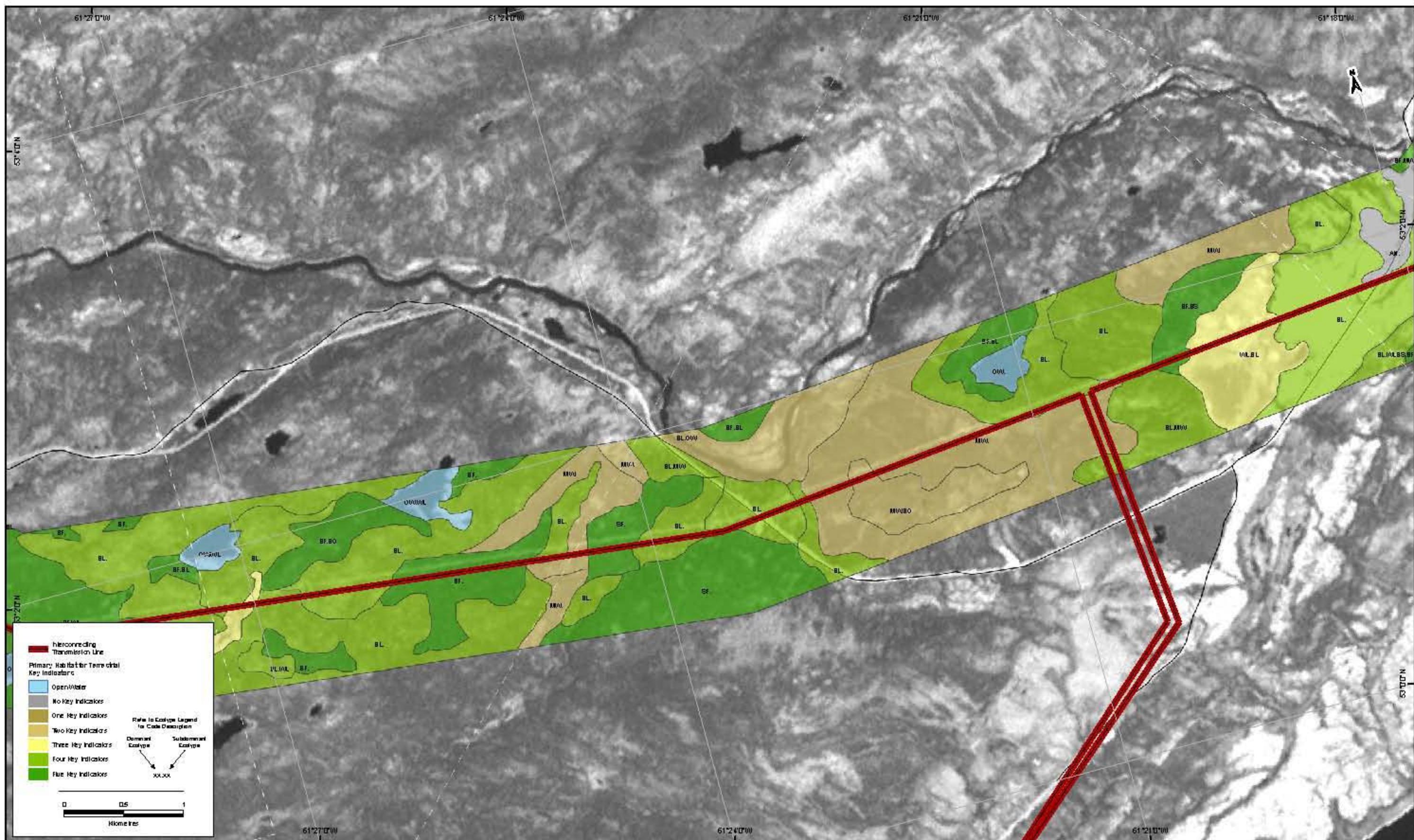


FIGURE NO:	IR#JRP.15-17
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

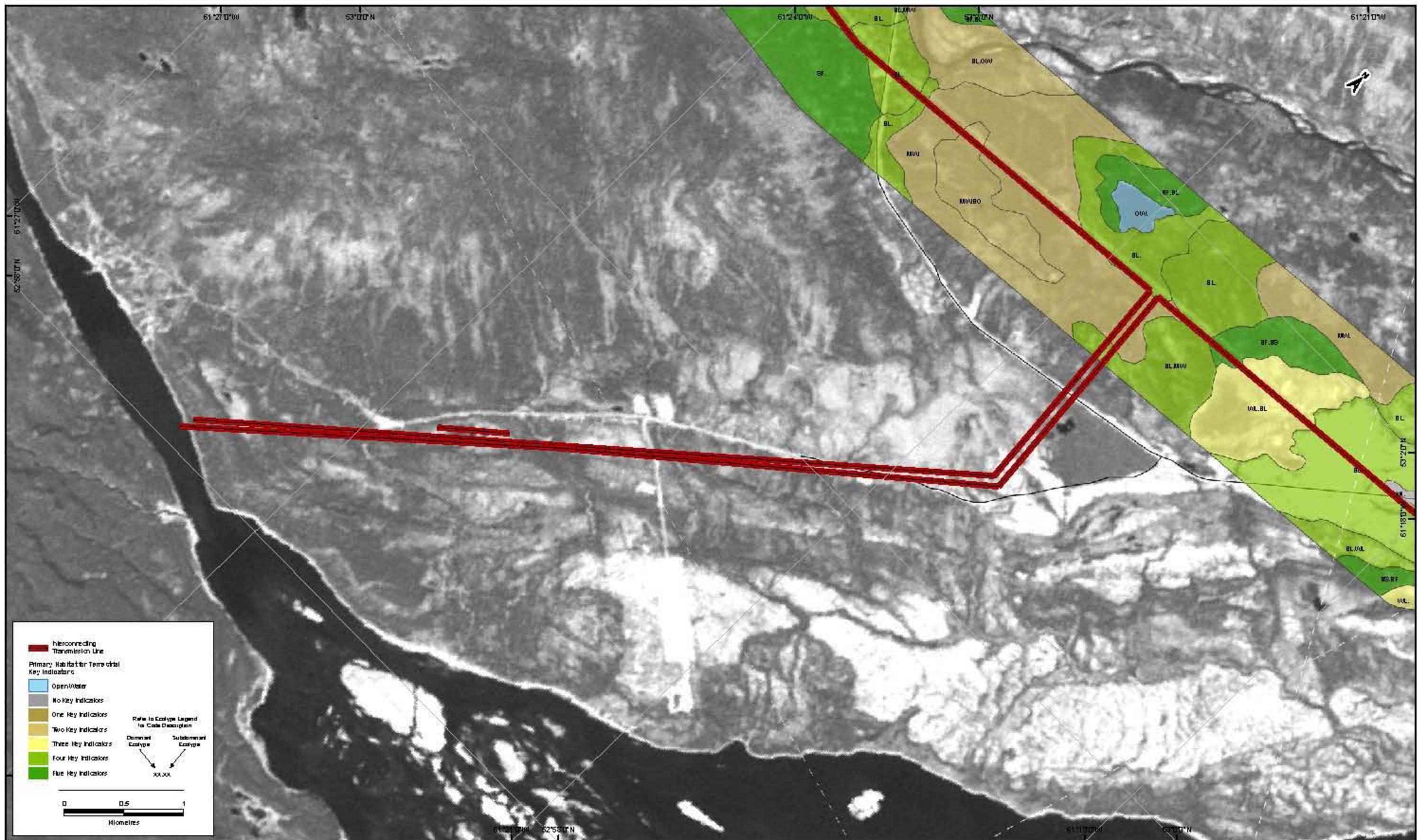


FIGURE NO:	IR#JRP.15-18
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

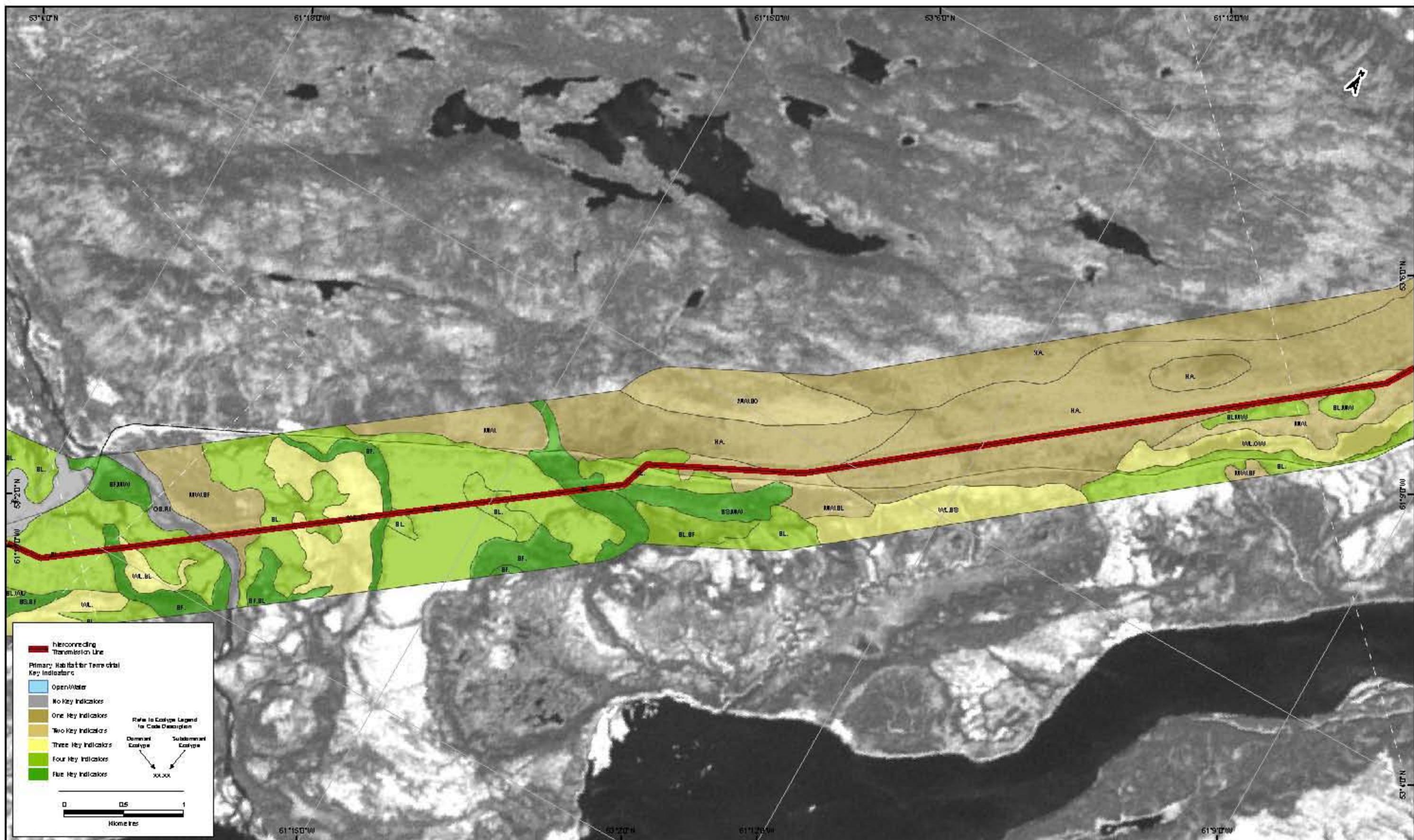


FIGURE NO:	IR#JRP.15-19
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

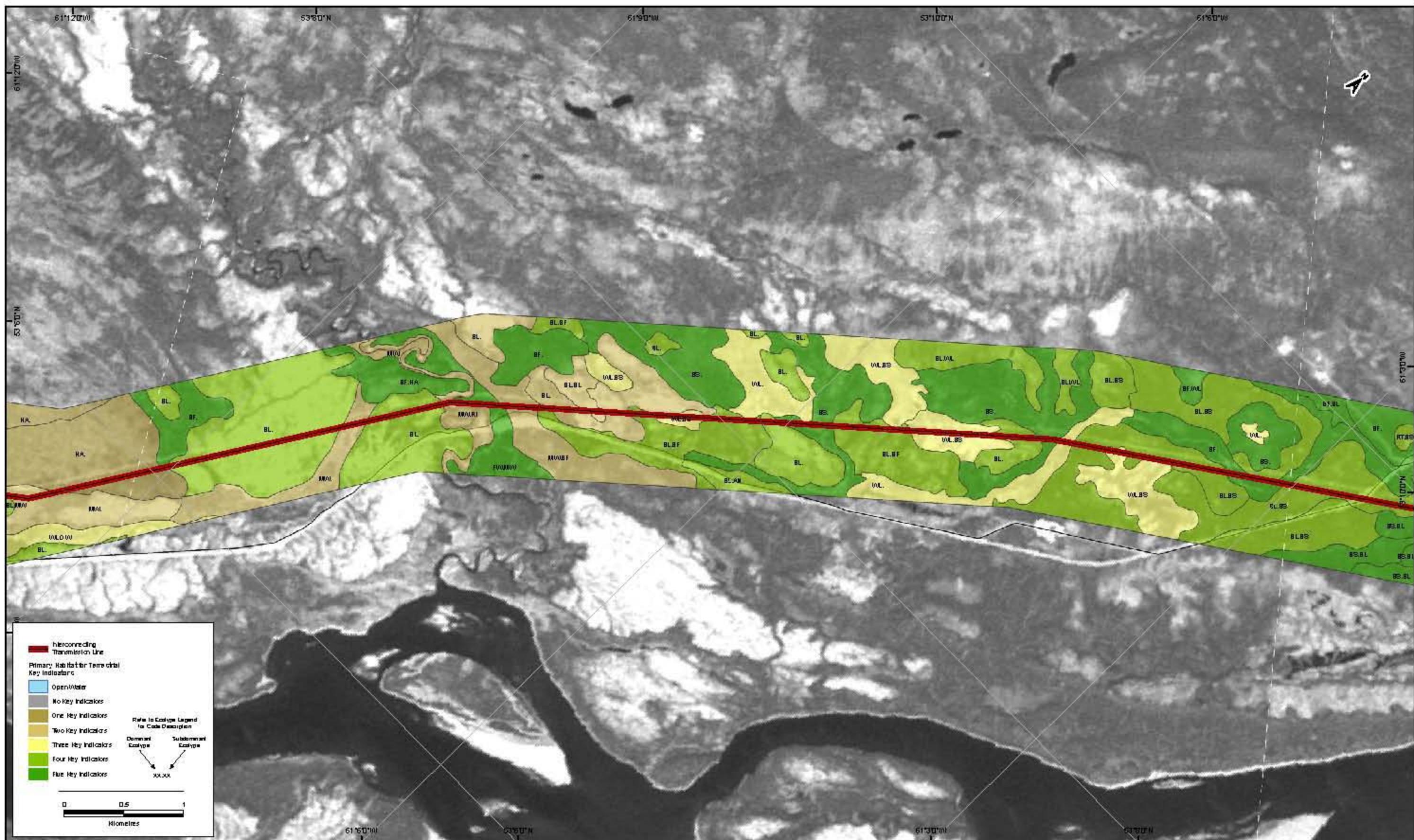


FIGURE NO:	IR#JRP.15-20
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

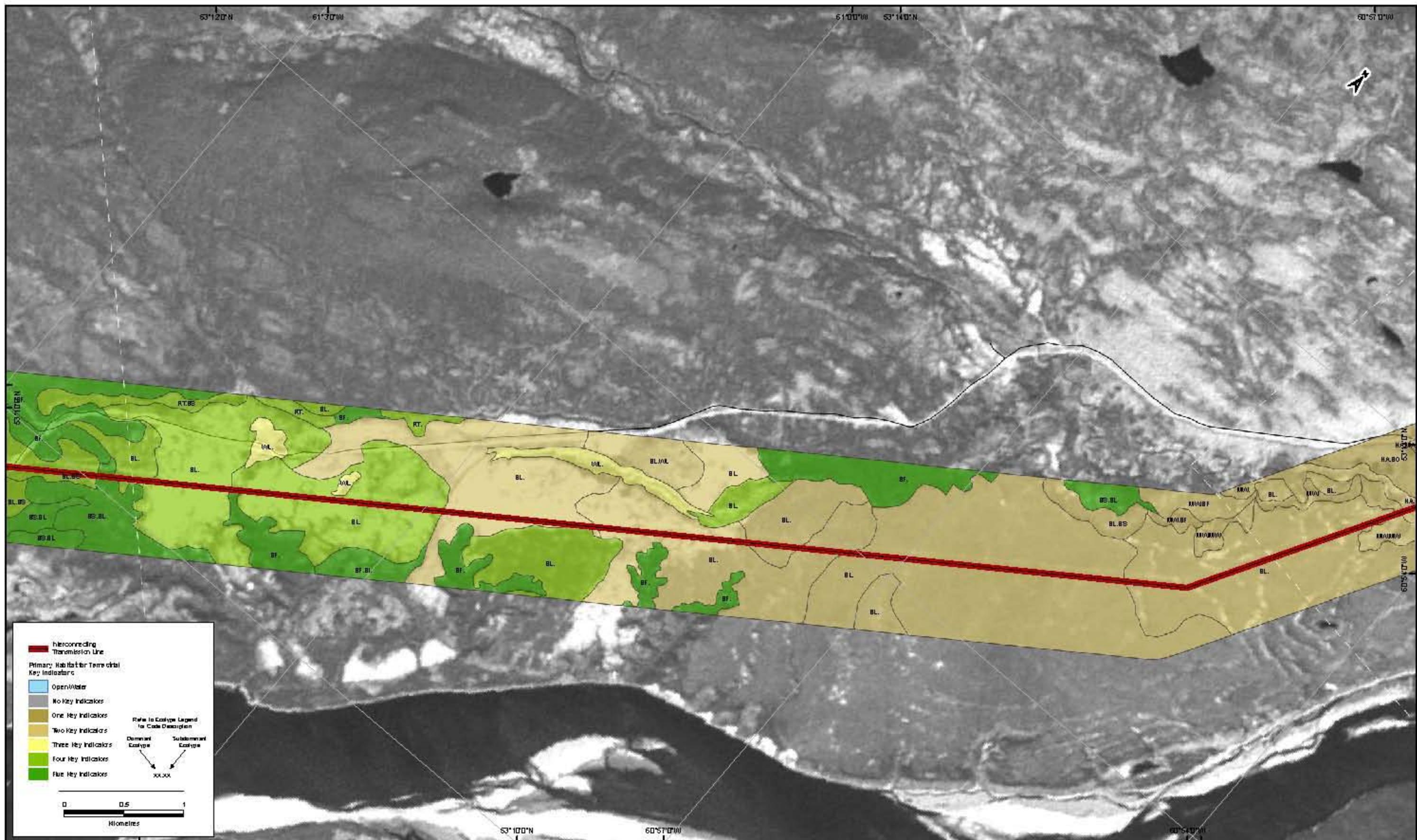


FIGURE NO:	IR#JRP.15-21
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IR JRP.15  
Composite Mapping of Primary Habitat for Terrestrial Key Indicators  
Interconnecting Transmission Line

DRFT DATE:	05/26/2008
REVISION DATE:	05/26/19/2008

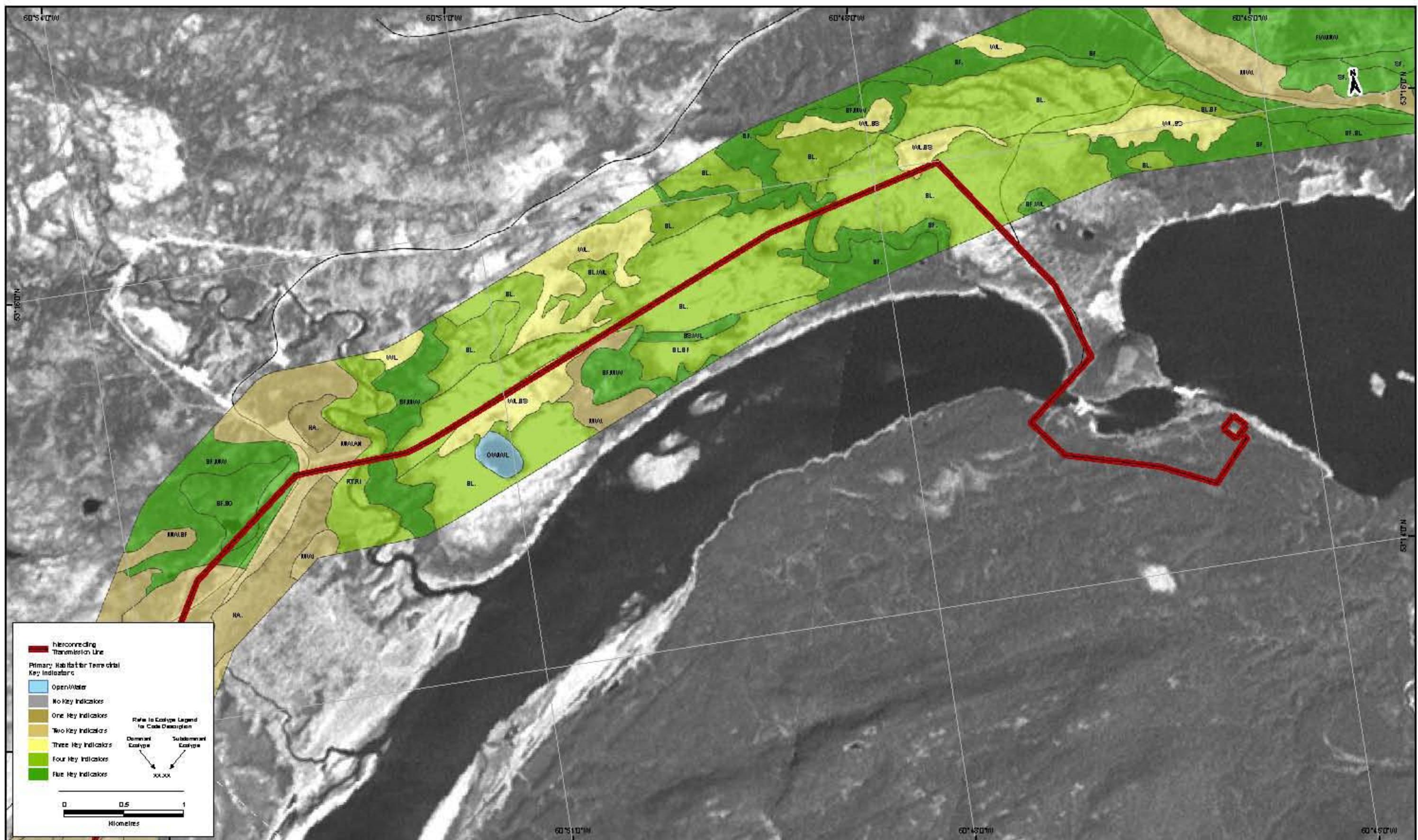


FIGURE NO: IR#JRP.15-22	
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**IR JRP.15**  
**Composite Mapping of Primary Habitat for Terrestrial Key Indicators**  
**Interconnecting Transmission Line**

DRFT DATE: 05/26/2008
REVISION DATE: 05/26/19/2008

ELC Code	Ecotype Name	ELC Code	Ecotype Name
AN	Anthropogenic	LB	Low Shrub Bog
BF	Black Spruce - Feather Moss	MA	Marsh
BL	Black Spruce - Lichen Woodland	MW	Mixedwood
BO	Black Spruce on Outcropping	OW	Open Water
BS	Black Spruce - Sphagnum Woodland	RI	River
FE	Fen	RM	Riparian Meadow
FW	Fir/White Spruce Woodland	RT	Riparian Thicket
GB	Gravel Bar	SF	Spruce/Fir Feathemoss
HA	Hardwood	UV	Unvegetated
		WL	Wetland

	IR JRP.15
	Composite Mapping (Terrestrial Environment) Ecotype Land Classification Legend