

- loss of in-stream and riparian aquatic habitats affecting productive capacity of fish habitat.

Table B3-1: Terrestrial Invertebrate Overview: Phyla, Class and Order of Terrestrial Invertebrates				
Phylum	Class	Order	Common Name	Ecological Significance
Nematoda			Round worms, thread worms (some), whip worms, lung worms, hook worms, eel worms	Predators, decomposers, parasites
Annelida			Leeches, earthworms	Decomposers, parasites
Mollusca			slugs, land snails	Scavengers, decomposers, predators
Arthropoda	Malacostraca	Isopoda	Isopods, pillbugs, woodlice	Decomposers
	Arachnida		Mites, ticks, spiders, scorpions	Parasites, predators
	Chilopoda		Centipedes	Predators
	Diplopoda		Millipedes	Decomposers, herbivores
	Entognatha	Collembola	Springtails	Decomposers, herbivores
	Insecta	Coleoptera	Beetles	Scavengers, predators, herbivores
		Dermaptera	Earwigs	Omnivores, decomposers
		Diptera	Mosquitoes, gnats, midges	Parasites, nectivores
		Hymenoptera	Wasps, ants, bees, sawflies	Predators, nectivores, herbivores
		Lepidoptera	Butterflies, moths	Nectivores
		Orthoptera	Grasshoppers, crickets, katydids, locusts	Herbivores
		Thysanura	Bristletails, silverfish	Decomposers, herbivores
Source: BIOSIS Zoological Record (2007)				

Table B3-2: Birds Potentially Using the Local Study Area					
Species	Observed in Study Area During 2004/2005 Surveys	Breeding or Migrating?	Regulatory Status*		
			SARA (Schedule 1)	MBESA	COSEWIC
Pacific Loon	✓	Migrating			
Common Loon	✓	Breeding			
Pied-billed Grebe		Breeding			
Horned Grebe		Breeding			Special Concern
Red-necked Grebe	✓	Breeding			
American White Pelican		Breeding			
Double-crested Cormorant	✓	Breeding			
American Bittern		Breeding			
Great Blue Heron	✓	Breeding			
Tundra Swan	✓	Migrating			
Greater White-fronted Goose		Migrating			
Snow Goose		Migrating			
Ross's Goose		Migrating			
Canada Goose	✓	Breeding			
Green-winged Teal	✓	Breeding			
American Black Duck	✓	Breeding			
Mallard	✓	Breeding			
Northern Pintail	✓	Breeding			
Blue-winged Teal	✓	Breeding			
Northern Shoveller	✓	Breeding			
Gadwall		Breeding			
American Wigeon	✓	Breeding			
Canvasback		Breeding			
Redhead		Breeding			
Ring-necked Duck	✓	Breeding			
Greater Scaup	✓	Migrating			
Lesser Scaup	✓	Breeding			
Common Eider		Migrating			
Black Scoter	✓	Migrating			
Surf Scoter	✓	Migrating			
White-winged Scoter	✓	Breeding			
Common Goldeneye	✓	Breeding			
Bufflehead	✓	Breeding			
Hooded Merganser	✓	Breeding			
Common Merganser	✓	Breeding			
Red-breasted Merganser	✓	Breeding			
Osprey	✓	Breeding			
Bald Eagle	✓	Breeding			
Northern Harrier	✓	Breeding			
Sharp-shinned Hawk	✓	Breeding			

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Species	Observed in Study Area During 2004/2005 Surveys	Breeding or Migrating?	Regulatory Status*		
			SARA (Schedule 1)	MBESA	COSEWIC
Northern Goshawk	✓	Breeding			
Red-tailed Hawk	✓	Breeding			
Rough-legged Hawk		Migrating			
Golden Eagle		Breeding			
American Kestrel		Breeding			
Merlin	✓	Breeding			
Peregrine Falcon		Migrating	Threatened	Endangered	Special Concern
Gyr Falcon		Migrating			
Spruce Grouse	✓	Breeding			
Willow Ptarmigan		Breeding			
Ruffed Grouse	✓	Breeding			
Sharp-tailed Grouse		Breeding	Special Concern		Special Concern
Yellow Rail		Breeding			
Sora		Breeding			
American Coot		Breeding			
Sandhill Crane	✓	Breeding			
Black-bellied plover		Migrating			
Lesser golden-Plover		Migrating			
Semipalmated Plover		Migrating			
Killdeer		Breeding			
Greater Yellowlegs	✓	Breeding			
Lesser Yellowlegs	✓	Breeding			
Solitary Sandpiper		Breeding			
Spotted Sandpiper	✓	Breeding			
Hudsonian Godwit		Migrating			
Ruddy Turnstone		Migrating			
Red Knot		Migrating			
Sanderling		Migrating			
Semipalmated Sandpiper		Migrating			
Least Sandpiper		Migrating			
White-rumped Sandpiper		Migrating			
Baird's Sandpiper		Migrating			
Pectoral Sandpiper		Migrating			
Dunlin		Migrating			
Short-billed Dowitcher		Breeding			
Wilson's Snipe	✓	Breeding			
Red-necked Phalarope		Migrating			
Parasitic Jaeger		Breeding			
Bonaparte's Gull	✓	Breeding			
Ring-billed Gull	✓	Breeding			
Herring Gull	✓	Breeding			

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Species	Observed in Study Area During 2004/2005 Surveys	Breeding or Migrating?	Regulatory Status*		
			SARA (Schedule 1)	MBESA	COSEWIC
Caspian Tern	✓	Breeding			
Common Tern	✓	Breeding			
Arctic Tern		Migrating			
Black Tern		Breeding			
Great Horned Owl		Breeding			
Snowy Owl		Migrating			
Northern Hawk-Owl		Breeding			
Great Gray Owl		Breeding			
Long-eared Owl		Breeding			
Short-eared Owl		Breeding			Special Concern
Boreal Owl		Breeding			
Common Nighthawk		Breeding			Threatened
Ruby-throated Hummingbird		Breeding			
Belted Kingfisher	✓	Breeding			
Yellow-bellied Sapsucker		Breeding			
Downy Woodpecker		Breeding			
Hairy Woodpecker	✓	Breeding			
Three-toed Woodpecker	✓	Breeding			
Black-backed Woodpecker		Breeding			
Northern Flicker	✓	Breeding			
Pileated Woodpecker		Breeding			Threatened
Olive-sided Flycatcher	✓	Breeding			
Yellow-bellied Flycatcher	✓	Breeding			
Alder Flycatcher	✓	Breeding			
Least Flycatcher	✓	Breeding			
Eastern Phoebe		Breeding			
Eastern Kingbird		Breeding			
Horned Lark		Breeding			
Tree Swallow	✓	Breeding			
Bank Swallow		Breeding			
Cliff Swallow	✓	Breeding			
Barn Swallow		Breeding			
Gray Jay	✓	Breeding			
American Crow	✓	Breeding			
Common Raven	✓	Breeding			
Boreal Chickadee	✓	Breeding			
Red-breasted Nuthatch	✓	Breeding			
Winter Wren	✓	Breeding			
Golden-crowned Kinglet	✓	Breeding			
Ruby-crowned Kinglet	✓	Breeding			
Gray-cheeked Thrush	✓	Migrating			
Swainson's Thrush	✓	Breeding			

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Species	Observed in Study Area During 2004/2005 Surveys	Breeding or Migrating?	Regulatory Status*		
			SARA (Schedule 1)	MBESA	COSEWIC
Hermit Thrush	✓	Breeding			
American Robin	✓	Breeding			
Water Pipit	✓	Migrating			
Bohemian Waxwing		Breeding			
Cedar Waxwing	✓	Breeding			
Northern Shrike		Migrating			
European Starling		Breeding			
Blue-headed Vireo	✓	Breeding			
Philadelphia Vireo		Breeding			
Red-eyed Vireo	✓	Breeding			
Tennessee Warbler	✓	Breeding			
Orange-crowned Warbler	✓	Breeding			
Yellow Warbler	✓	Breeding			
Magnolia Warbler	✓	Breeding			
Cape May Warbler	✓	Breeding			
Yellow-rumped Warbler	✓	Breeding			
Blackburnian Warbler	✓	Breeding			
Palm Warbler	✓	Breeding			
Bay-breasted Warbler		Breeding			
Blackpoll Warbler	✓	Breeding			
Black-and-white Warbler		Breeding			
Ovenbird	✓	Breeding			
Northern Waterthrush	✓	Breeding			
Wilson's Warbler	✓	Breeding			
Rose-breasted Grosbeak	✓	Breeding			
American Tree Sparrow		Breeding			
Chipping Sparrow	✓	Breeding			
Clay-colored Sparrow		Breeding			
Vesper Sparrow		Breeding			
Savannah Sparrow	✓	Breeding			
Le conte's Sparrow		Breeding			
Fox Sparrow	✓	Breeding			
Song Sparrow	✓	Breeding			
Lincoln's Sparrow	✓	Breeding			
Swamp Sparrow	✓	Breeding			
White-throated Sparrow	✓	Breeding			
White-crowned Sparrow		Breeding			
Harris's Sparrow		Migrating			
Dark-eyed Junco	✓	Breeding			
Lapland Longspur		Migrating			
Smith's Longspur		Migrating			
Snow Bunting	✓	Migrating			

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Species	Observed in Study Area During 2004/2005 Surveys	Breeding or Migrating?	Regulatory Status*		
			SARA (Schedule 1)	MBESA	COSEWIC
Red-Winged Blackbird	✓	Breeding			
Rusty Blackbird	✓	Breeding	Special Concern		Special Concern
Common Grackle	✓	Breeding			
Pine Grosbeak	✓	Breeding			
Red Crossbill	✓	Breeding			
White-winged Crossbill		Breeding			
Common Redpoll	✓	Breeding			
Hoary Redpoll		Migrating			
Pine Siskin		Breeding			
House Sparrow		Breeding			
*SARA – <i>Species at Risk Act</i> ; MESA = <i>The Endangered Species Act</i> (Manitoba); COSEWIC = Committee on the Status of Endangered Wildlife in Canada (no ‘regulatory status’ per se, however, COSEWIC-listed species are reviewed for inclusion under SARA); Blank cell = no regulatory status					

**Table B3-3: Most Common Bird Species Observed Within Habitat Groups
Surveyed in the Local Study Area**

Most Common Songbirds Observed	Ranking ^a of the Five Most Common Birds Observed Within Habitat Groups Surveyed (2001 to 2007) ^b										
	Population Trend in the Boreal Softwood Shield ^c	Black Spruce Forest	Black Spruce Woodland	Sparsely Treed Black Spruce or Black Spruce/ Tamarack Mixture	Spruce Mixture Forest	Spruce Mixture Woodland	Jack Pine Mixture Forest or Woodland	Jack Pine Forest or Woodland	Spruce Mixedwood Forest or Woodland	White Birch Mixedwood Forest or Woodland	Trembling Aspen Mixedwood Forest or Woodland
Ruby-crowned Kinglet	0.0	2	1	1	1	1	1	4	2	2	1
Yellow-rumped Warbler	0.4	1	2	2	2	2	3	2	1	1	2
Northern Waterthrush	0.2	4	3	3	4	5	4	4	-	-	-
Swainson's Thrush	0.2	5	4	-	5	4	-	1	3	5	-
White-throated Sparrow	-0.2	-	-	-	3	5	2	-	5	-	-
American Robin	0.7	3	-	4	-	-	4	-	4	-	4
Blue-headed Vireo	-2.8	-	-	-	-	-	-	-	-	3	3
Dark-eyed Junco	1.2	-	5	5	-	-	-	-	-	-	-
Magnolia Warbler	-2.3	-	-	-	-	-	-	3	-	-	-
Tennessee Warbler	-1.5	-	-	-	-	-	-	-	-	4	-
Winter Wren	0.9	-	-	-	-	-	-	4	-	-	-
Gray Jay	-1.4	-	-	-	-	-	4	-	-	-	-
Yellow Warbler	0.9	-	-	-	-	-	-	-	-	-	5

a = Ranking: 1 = first most common bird species, to 5 = fifth most common bird species ('most common' = species observed at the most number of survey stops)

b = Refer to Section 3.4.1 for definitions of 'forest', 'woodland', 'mixture' and 'mixedwood'

c = Data from 1968-2007. Source: CWS Bird Trends Database accessed at: <http://www.cws-scc.ec.gc.ca/mgbc/trends>.

Trend = mean annual percentage change in bird population. None of the trends shown here are statistically significant $P < 0.05$ or $0.05 < P < 0.1$

