

## Dixon Diversion Project USFWS Wildlife Species List for Analysis in the Wildlife Habitat Evaluation Study March 29, 2024

Group	Species	ACAD	USFWS BCC	Taxon-specific List	Comments	Habitat
<b>Riverine habitat use: Martin River hydrology</b>						
Bird - Landbirds	Rufous Hummingbird	WatchList/Tipping Point - Orange	x		Breeding	Breeding - Nesting probably in tall conifers but potentially riparian thickets; Migration - Foraging habitat includes mountain meadows
Bird - Landbirds	Olive-sided Flycatcher	WatchList/Tipping Point - Yellow	x		Breeding	Sea level to timberline, usually at mid to high elevation; Conifer forests, burns, clearings, edges of streams, lakes, rivers, ponds, bogs, muskegs
Bird - Landbirds	Bank Swallow	Common Bird in Steep Decline			Breeding	Lowland areas along coasts and rivers, lakes, reservoirs, wetlands. Needs soil banks/cliffs/bluffs for nesting.
Bird - Landbirds	Blackpoll Warbler	Common Bird in Steep Decline			Breeding	Could occupy black spruce forest but primarily deciduous shrub habitats ( <i>Salix alaxensis</i> and <i>Alnus incana</i> ), where riparian or other moist habitats are preferred. Also occupies ecotone between treeline taiga and alpine tundra
<b>Tidal flat habitat use: Discharge and sedimentation changes to Fox River Flats IBA (tidal flats on south side of K-Bay near Bradley Lake power plant)</b>						
Bird - Waterbirds	Steller's Eider	WatchList/Tipping Point - Red			ESA- Threatened; Sea duck	Non-breeding habitat includes shallow coastal lagoons/waters, tidal flats
Bird - Waterbirds	Common Goldeneye				Diving duck; non-breeding	Shallow bays, increasingly found in discharge areas near power stations; winter diet overlaps with Steller's eiders
Bird - Waterbirds	Barrow's Goldeneye				Sea duck; year round, including breeding	Breeding - subalpine lakes, small sloughs; non-breeding - marine waters, but often using areas near freshwater input
Bird - Shorebirds	Rock Sandpiper	WatchList/Tipping Point - Yellow	x	ASG: High Conservation Concern	Non-breeding	Forages/rests in intertidal habitats, including rocky shorelines and estuaries (mud and mixed sand-and-mud flats)
Bird - Shorebirds	Western Sandpiper	WatchList Yellow		ASG: AK Stewardship Species	Just migrating through	Tidal flats, saltmarsh
Bird - Shorebirds	Semipalmated Sandpiper	WatchList/Tipping Point - Orange		ASG: High Conservation Concern	Just migrating through	Tidal flats, freshwater wetlands, lake and pond edges
Bird - Seabird	Herring Gull	Common Bird in Steep Decline			Year round, including breeding	Breeding - mainly coastal wetlands but also large lakes and reservoirs; varied nesting including on vegetated and non-vegetated substrates/structures
Bird - Seabird	Arctic tern		x		Breeding; 2008 BCC list not 2021	Nests in treeless areas, including tundra, sandy/gravelly substrates, often near lakes or other water; has been a colony at Fox River Flats and one at Grewingk Glacier, need to check for current info (but colony database is down; reach out to Robb Kaler)
<b>Alpine tundra habitat use: Loss of nesting habitat related to water level rise/loss of nests related to fluctuations</b>						
Bird - Waterbirds	Long-tailed Duck	WatchList/Tipping Point - Orange			Sea duck; year round, including breeding	Breeds in low-lying tundra, hills, barren ground
Bird - Shorebirds	Wandering Tattler	WatchList/Tipping Point - Yellow	x		Breeding	Dwarf shrub uplands and montane tundra, areas with rocky/gravelly alluvium, morainal deposits, kettle lakes and tarns, scree slopes, braided creeks and rivers
Bird - Seabirds	Marbled Murrelet	WatchList/Tipping Point - Yellow	x		Year round, including breeding; Audubon Alaska watchlist	Breeding - Nest sites include coastal forests (most nests in trees) but can also nest on sea-facing talus slopes on cliffs or rocky scree slopes

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Bird - Landbirds	Short-eared Owl	Common Bird in Steep Decline			Breeding	Ground nester that uses a variety of open habitats; generally dry sites from sea level to uplands
Bird - Landbirds	American Pipit	Common Bird in Steep Decline			Breeding	Alpine tundra, often near streams
Bird - Landbirds	Horned Lark	Common Bird in Steep Decline	x		Breeding; Listed in BCS outside of Alaska, consider removing	Sea level to 4000 m, likes barren ground breeding habitat, will quickly colonize cleared areas
Bird - Landbirds	Lapland Longspur	Common Bird in Steep Decline			Breeding	Typically in wet, hummocky, tundra meadows, often on relatively flat ground, but also on drier, well-vegetated slopes; approx. sea level to 500 m / treeline
<b>Wetlands, including sedge and muskeg habitats: Could be impacted by changing flows</b>						
Bird - Waterbirds	Northern Pintail	WatchList/Tipping Point - Yellow			Freshwater dabbling duck; could be breeding	Shallow wetlands; freshwater and tidal used
Bird - Waterbirds	Black Scoter	WatchList/Tipping Point - Yellow			Year round, including breeding	Breeding - smaller lakes/taiga lakes, areas with tall grasses/sedges; non-breeding - may associate with Harlequin Ducks and use marine areas with sandy or rocky beaches; note that hydroelectric projects flooding habitat was a significant concern in the east
Bird - Waterbirds	Red-throated Loon				Year round, including breeding	Breeding - coastal and freshwater, can use v. small waterbodies, including in treed areas; non-breeding use of marine habitats and large freshwater lakes
Bird - Shorebirds	Lesser Yellowlegs	WatchList/Tipping Point - Orange	x	ASG: High Conservation Concern	Breeding	Breeding in open boreal forest and forest/tundra transition, nesting in drier habitats than sympatric greater yellowlegs; broad rearing in wetlands or brackish habitats; can be found nesting in ROW clearings; forages in marshes, mudflats, shores- breeds in large clearings
Bird - Shorebirds	Greater Yellowlegs	WatchList/Tipping Point - Orange			Breeding	Ground nester; nests in muskeg, bogs, forests with lots of openings and small ponds/lakes; also breeds in tundra and subalpine scrub; forages in wetland habitats and in tidal habitats
Bird - Shorebirds	Short-billed Dowitcher	WatchList/Tipping Point - Orange	x	ASG: High Conservation Concern	Breeding	mudflats, tidal marsh, ponds - Breeds in wetlands including emergent wetlands and muskegs interspersed with black spruce, can breed beyond treeline; foraging on tidal flats
Bird - Seabird	Bonaparte's Gull				Breeding	Nests in wetland openings along the edge of the boreal forest, particularly around lakes, muskegs, marshes; nests in trees; requires areas not disturbed by people for nesting
<b>Potential to use man-made structures</b>						
Bird - Seabirds	Black-legged Kittiwake	Common Bird in Steep Decline			Year round, including breeding	Breeding - Cliff nester but also uses manmade structures (e.g. piers); can also nest on steep earthen slopes; non-breeding - pelagic
Bird - Seabirds	Pelagic Cormorant	WatchList/Tipping Point - Orange	x		Year round, including breeding; BCC 2008 list, not 2021	Breeding- Nests tend to be on cliffs, ledges but can also use human-made structures; diurnal roosts on sandbars, pilings near water

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Bird - Landbirds	Peregrine Falcon		x		Year round, including breeding; BCC 2008 list, not 2021	Breeding - generalist, low to high elevations with nesting sites including cliffs and manmade structures; prey includes shorebirds
Bird - Landbirds	Red-tailed hawk				Breeding	Breeds on many substrates, including trees and human-made surfaces; common in broken spruce and conifers below treeline
Bird - Landbirds	Peregrine Falcon		x		Year round, including breeding; BCC 2008 list, not 2021	Breeding - generalist, low to high elevations with nesting sites including cliffs and manmade structures; prey includes shorebirds
<b>Mammals</b>						
Mammal	Tundra Vole				Kenai NWR- Tundra voles are more prevalent in the project area than singing voles and would be a more appropriate candidate focal species	
Mammal	Wolverine				Kenai NWR- Important trapping species in the area	