

APPENDIX I
STRUM WETLAND/WATERCOURSE DATA

Wetland ID	Upland Characteristics and Habitat					Wetland Characteristics and Habitat							Alterations Present	Full or Partial Delineation	Rare Species Identified		
	Habitat Notes	Soil colorimetric classification	Herbaceous Layer (1 m)	Shrub Layer (5 m)	Tree Layer (10 m)	Landform	Wetland Type	Soil Types	Soil Notes	Waterflow	Hydrological Indicators	Herbaceous Layer (1 m)				Shrub Layer (5 m)	Tree Layer (10 m)
WL67	Regenerating harvested area over barren habitat.	0-10 cm organic 10-38 cm 7.5 YR 5/2, rocky refusal	Sheep laurel (<i>Kalmia angustifolia</i>) 15% Northern wild raisin (<i>Viburnum cassinoides</i>) 10% Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>) 12% Black huckleberry (<i>Gaylussacia baccata</i>) 10% Mountain holly (<i>Ilex mucronata</i>) 25% Bunchberry (<i>Cornus canadensis</i>) 4% Red maple (<i>Acer rubrum</i>) 15% Red spruce (<i>Picea rubens</i>) 5% Balsam fir (<i>Abies balsamea</i>) 10%	Red maple (<i>Acer rubrum</i>) 10% Northern wild raisin (<i>Viburnum cassinoides</i>) 45% Red spruce (<i>Picea rubens</i>) 15% Balsam fir (<i>Abies balsamea</i>) 40% Mountain holly (<i>Ilex mucronata</i>) 20%	Red spruce (<i>Picea rubens</i>) 35% Balsam fir (<i>Abies balsamea</i>) 10% Red maple (<i>Acer rubrum</i>) 7%	Slope	Shrub Swamp	S1 Sandy Mucky Mineral	0-17 cm organic 17-48 cm 10 YR 4/3 48-83 cm 7.5 YR 5/4	Isolated	High Water Table, Saturation, Drainage Patterns	Sheep laurel (<i>Kalmia angustifolia</i>) 30% Bristly dewberry (<i>Rubus hispidus</i>) 20% Bunchberry (<i>Cornus canadensis</i>) 3% Two-seeded sedge (<i>Carex distachya</i>) 5% Bracken fern (<i>Pteridium aquilinum</i>) 20% Red maple (<i>Acer rubrum</i>) 5% Dwarf red raspberry (<i>Rubus pubescens</i>) 3% Partridgeberry (<i>Mitchella repens</i>) 2% Twinnflower (<i>Linnaea borealis</i>) 3%	Red maple (<i>Acer rubrum</i>) 30% Mountain holly (<i>Ilex mucronata</i>) 40% Red spruce (<i>Picea rubens</i>) 20% Northern wild raisin (<i>Viburnum cassinoides</i>) 20% Black huckleberry (<i>Gaylussacia baccata</i>) 15% Tamarack (<i>Larix laricina</i>) 5% Paper birch (<i>Betula papyrifera</i>) 15% Gray birch (<i>Betula populifolia</i>) 40%	Black spruce (<i>Picea mariana</i>) 30% Red maple (<i>Acer rubrum</i>) 15% Red spruce (<i>Picea rubens</i>) 30%	Y	Full	No
WL72	Rocky substrate with dense vegetation.	0-13 cm organic 13-27 cm 7.5 YR 4/2 27-40 cm 9B 7.5 YR 2.5/1, 2% 10 YR 2.5/1	Sheep laurel (<i>Kalmia angustifolia</i>) 35% Bunchberry (<i>Cornus canadensis</i>) 10 Velvet leaf blueberry (<i>Vaccinium myrtilloides</i>) 40% Wild lily-of-the-valley (<i>Maianthemum canadense</i>) 5% Bracken fern (<i>Pteridium aquilinum</i>) 30% Red maple (<i>Acer rubrum</i>) 10% Northern wild raisin (<i>Viburnum cassinoides</i>) 3%	Mountain holly (<i>Ilex mucronata</i>) 45% Gray birch (<i>Betu a populifolia</i>) 5% Red spruce (<i>Picea rubens</i>) 5% Red maple (<i>Acer rubrum</i>) 20%	Red spruce (<i>Picea rubens</i>) 70% Red maple (<i>Acer rubrum</i>) 20% Large-toothed aspen (<i>Populus grandidentata</i>) 5%	Flat	Treed Swamp	Other	0-14 cm 7.5 YR 3/3 14-17 cm 7.5 YR 2.5/1 17-25 cm 10 YR 4/2	Throughflow	Surface Water, High Water Table, Saturation, Water Stained Leaves, Sparsely Vegetated Concave Surfaces, Drainage Patterns	Bunchberry (<i>Cornus canadensis</i>) 10% Whorled wood aster (<i>Ocmea acuta</i>) 15% Red maple (<i>Acer rubrum</i>) 3% Common labrador tea (<i>Rhododendron groenlandicum</i>) 10% Wild lily-of-the-valley (<i>Maianthemum canadense</i>) 2% Balsam fir (<i>Abies balsamea</i>) 3% Goldthread (<i>Coptis trifolia</i>) 3%	Red maple (<i>Acer rubrum</i>) 30% Balsam fir (<i>Abies balsamea</i>) 15% Yellow birch (<i>Betula alleghaniensis</i>) 5%	Red maple (<i>Acer rubrum</i>) 10% Balsam fir (<i>Abies balsamea</i>) 60%	Y	Partial	No
WL73AB	Very dense shrub cover. Mixed wood overstory of immature trees.	0-5 cm organic 5-17 cm 10 YR 5/2 17-26 cm 10 YR 4/2	Bunchberry (<i>Cornus canadensis</i>) 10% Dewdrop (<i>Rubus repens</i>) 10% Eastern tea berry (<i>Gaultheria procumbens</i>) 20% Sheep laurel (<i>Kalmia angustifolia</i>) 20% Rhodora (<i>Rhododendron canadense</i>) 10% Common winterberry (<i>Ilex verticillata</i>) 5% Bracken fern (<i>Pteridium aquilinum</i>) 2%	Rhodora (<i>Rhododendron canadense</i>) 75% Northern wild raisin (<i>Viburnum cassinoides</i>) 20% Red spruce (<i>Picea rubens</i>) 10%	Red spruce (<i>Picea rubens</i>) 15% Eastern white pine (<i>Pinus strobus</i>) 5% Red maple (<i>Acer rubrum</i>) 20% Gray birch (<i>Betula populifolia</i>) 10% Balsam fir (<i>Abies balsamea</i>) 20%	Basin	Treed Swamp	S1 Sandy Mucky Mineral	0-8 cm organic 8-13 cm 10 YR 2/2 13-22 cm 10 YR 3/2	Throughflow	High Water Table, Saturation, Sparsely Vegetated Concave Surfaces, Drainage Patterns, Hydrogen Sulfide Odor	Bunchberry (<i>Cornus canadensis</i>) 20% Northern starflower (<i>Lysimachia borealis</i>) 15% Dewdrop (<i>Rubus repens</i>) 15% Cinnamon fern (<i>Osmundastrum cinnamomeum</i>) 50% Late lowbush blueberry (<i>Vaccinium angustifolium</i>) 10% Balsam fir (<i>Abies balsamea</i>) 5% Northern wild raisin (<i>Viburnum cassinoides</i>) 20% Red maple (<i>Acer rubrum</i>) 2% Three-seeded sedge (<i>Carex triperma</i>) 15%	Northern wild raisin (<i>Viburnum cassinoides</i>) 10% Mountain holly (<i>Ilex mucronata</i>) 30% Red maple (<i>Acer rubrum</i>) 5%	Balsam fir (<i>Abies balsamea</i>) 45% Red spruce (<i>Picea rubens</i>) 30% Red maple (<i>Acer rubrum</i>) 20% Tamarack (<i>Larix laricina</i>) 5%	N	Partial	No
WL74	Flat rolling topography. Habitat is fairly open, adjacent to a dirt road.	0-12 cm organic 12-21 cm 7.5 YR 4/1 21-44 cm 7.5 YR 3/1, packed gravel refusal	Northern starflower (<i>Tr entalis borealis</i>) 15% Goldthread (<i>Coptis trifolia</i>) 40% Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>) 5% Red maple (<i>Acer rubrum</i>) 3% Balsam fir (<i>Abies balsamea</i>) 2% Wild lily-of-the-valley (<i>Maianthemum canadense</i>) 6% Northern wild raisin (<i>Viburnum cassinoides</i>) 2% Sheep laurel (<i>Kalmia angustifolia</i>) 3%	Balsam fir (<i>Abies balsamea</i>) 10% Red spruce (<i>Picea rubens</i>) 10% Northern wild raisin (<i>Viburnum cassinoides</i>) 15%	Balsam fir (<i>Abies balsamea</i>) 30% Red spruce (<i>Picea rubens</i>) 40% Red maple (<i>Acer rubrum</i>) 25% Yellow birch (<i>Betula alleghaniensis</i>) 5%	Slope	Fen	A11 Depleted Below Dark Surface	0-21 cm organic 21-40 cm 10 YR 4/1 40-49 cm 10 YR 4/2, loose rock refusal	Throughflow	High Water Table, Saturation, Water Marks, Sparsely Vegetated Concave Surfaces, Drainage Patterns	Goldthread (<i>Coptis trifolia</i>) 30% Bunchberry (<i>Cornus canadensis</i>) 30% Sheep laurel (<i>Kalmia angustifolia</i>) 5% Northern starflower (<i>Lysimachia borealis</i>) 5% Balsam fir (<i>Abies balsamea</i>) 5% Painted trillium (<i>Trillium undulatum</i>) 3%	Balsam fir (<i>Abies balsamea</i>) 45% Red spruce (<i>Picea rubens</i>) 10% Mountain holly (<i>Ilex mucronata</i>) 10%	Balsam fir (<i>Abies balsamea</i>) 40% Red maple (<i>Acer rubrum</i>) 30% Red spruce (<i>Picea rubens</i>) 20%	Y	Partial	No
WL78	Open, mid-successional softwood forest with extensive microtopography.	0-10 cm organic 10-35 cm 7.5YR 4/2, rocky refusal	Goldthread (<i>Coptis trifolia</i>) 35% Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>) 15% Wild lily-of-the-valley (<i>Maianthemum canadense</i>) 10% Sheep laurel (<i>Kalmia angustifolia</i>) 10% Mountain holly (<i>Ilex mucronata</i>) 3% Balsam fir (<i>Abies balsamea</i>) 3% Creeping snowberry (<i>Gaultheria hispida</i>) 2% Red maple (<i>Acer rubrum</i>) 2%	Balsam fir (<i>Abies balsamea</i>) 4%	Balsam fir (<i>Abies balsamea</i>) 40% Red spruce (<i>Picea rubens</i>) 50% Red maple (<i>Acer rubrum</i>) 10%	Basin	Treed swamp	F2 Loamy Gleyed Matrix	0-20 cm organic 20-65 cm 7.5YR 2.5/2 65-90 cm gley 2/4/10b	Isolated	High Water Table, Saturation, Sparsely Vegetated Concave Surfaces, Drainage Patterns, Hydrogen Sulfide Odor	Bunchberry (<i>Cornus canadensis</i>) 10% Cinnamon fern (<i>Osmundastrum cinnamomeum</i>) 40% Wild sarsaparilla (<i>Aralia nudicaulis</i>) 10% Goldthread (<i>Coptis trifolia</i>) 10% Sheep laurel (<i>Kalmia angustifolia</i>) 5% Three-seeded sedge (<i>Carex triperma</i>) 5% Balsam fir (<i>Abies balsamea</i>) 3% Red maple (<i>Acer rubrum</i>) 3% Twinnflower (<i>Linnaea borealis</i>) 20% Northern starflower (<i>Lysimachia borealis</i>) 2% Northern wild raisin (<i>Viburnum cassinoides</i>) 3%	Red spruce (<i>Picea rubens</i>) 15% Balsam fir (<i>Abies balsamea</i>) 15% Mountain holly (<i>Ilex mucronata</i>) 20% Northern wild raisin (<i>Viburnum cassinoides</i>) 10%	Balsam fir (<i>Abies balsamea</i>) 15% Red spruce (<i>Picea rubens</i>) 60% Tamarack (<i>Larix laricina</i>) 35% Red maple (<i>Acer rubrum</i>) 25%	N	Partial	No
WL79	Dense regenerating softwood-dominant stand.	0-13 cm organic 13-20 cm 2.5y 6/2 20-32 cm 2.5y 4/2 32-42 cm 10 YR 4/3, packed gravel refusal	Northern wild raisin (<i>Viburnum cassinoides</i>) 15% Sheep laurel (<i>Kalmia angustifolia</i>) 5% Red spruce (<i>Picea rubens</i>) 5% Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>) 5% Late lowbush blueberry (<i>Vaccinium angustifolium</i>) 5% Bracken fern (<i>Pteridium aquilinum</i>) 20% Wild lily-of-the-valley (<i>Maianthemum canadense</i>) 2% Goldthread (<i>Coptis trifolia</i>) 5% Bunchberry (<i>Cornus canadensis</i>) 3% Common labrador tea (<i>Ledum groenlandicum</i>) 2% Red maple (<i>Acer rubrum</i>) 5% Apple sp. (<i>Malus sp.</i>) 7%	Red spruce (<i>Picea rubens</i>) 70% Balsam fir (<i>Abies balsamea</i>) 20% Red maple (<i>Acer rubrum</i>) 40% Eastern white pine (<i>Pinus strobus</i>) 5%	Balsam fir (<i>Abies balsamea</i>) 10% Eastern white pine (<i>Pinus strobus</i>) 3%	Slope	Bog	S1 Sandy Mucky Mineral	0-10 cm organic 10-70 cm water 70-100 cm 10 YR 4/2	Isolated	Surface Water, High Water Table, Saturation	Leatherleaf (<i>Chamaedaphne calyculata</i>) 70% Small cranberry (<i>Vaccinium oxycoccos</i>) 30% Variegated horsetail (<i>Equisetum variegatum</i>) 5% Sheep laurel (<i>Kalmia angustifolia</i>) 4% Narrow-panicked rush (<i>Juncus brevicaudatus</i>) 5% Broad-leaved cattail (<i>Typha latifolia</i>) 10%	Red maple (<i>Acer rubrum</i>) 5% Trembling aspen (<i>Populus tremuloides</i>) 9% Red spruce (<i>Picea rubens</i>) 5% Willow sp. (<i>Salix sp.</i>) 28% Balsam fir (<i>Abies balsamea</i>) 2%	N/A	N	Full	No
WL80	Dense shrub stratum with a few short trees.	0-8 cm organic 8-20 cm 10 YR 6/2 20-72 cm 10 YR 3/6, refusal	Late lowbush blueberry (<i>Vaccinium angustifolium</i>) 30% Sheep laurel (<i>Kalmia angustifolia</i>) 40% Bunchberry (<i>Cornus canadensis</i>) 20% Bristly dewberry (<i>Rubus hispidus</i>) 10% Black huckleberry (<i>Gaylussacia baccata</i>) 5% Goldthread (<i>Coptis trifolia</i>) 2% Red maple (<i>Acer rubrum</i>) 5% Northern wild raisin (<i>Viburnum cassinoides</i>) 10% Bracken fern (<i>Pteridium aquilinum</i>) 5%	Northern wild raisin (<i>Viburnum cassinoides</i>) 28% Balsam fir (<i>Abies balsamea</i>) 15% Red spruce (<i>Picea rubens</i>) 50% Red maple (<i>Acer rubrum</i>) 15% Yellow birch (<i>Betula alleghaniensis</i>) 15%	Red spruce (<i>Picea rubens</i>) 20% Balsam fir (<i>Abies balsamea</i>) 15%	Slope	Treed Swamp	S1 Sandy Mucky Mineral	0-10 cm organic 10-23 cm 10 YR 5/2 23-37 cm 7.5 YR 2.5/2 37-88 cm 10 YR 4/6	Isolated	Surface Water, High Water Table, Saturation, Sparsely Vegetated Concave Surfaces, Drainage Patterns	Bunchberry (<i>Cornus canadensis</i>) 50% Northern wild raisin (<i>Viburnum cassinoides</i>) 10% Bristly dewberry (<i>Rubus hispidus</i>) 40% Sheep laurel (<i>Kalmia angustifolia</i>) 5% Interrupted fern (<i>Claytonia virginiana</i>) 2% Northern starflower (<i>Lys machia borealis</i>) 5%	Balsam fir (<i>Abies balsamea</i>) 20% Mountain holly (<i>Ilex mucronata</i>) 35% Red maple (<i>Acer rubrum</i>) 5%	Red spruce (<i>Picea rubens</i>) 20% Balsam fir (<i>Abies balsamea</i>) 3% Red maple (<i>Acer rubrum</i>) 20%	Y	Partial	No



Photo 1. A representative photo of WL1.



Photo 2. A representative photo of WL2.



Photo 3. A representative photo of WL4.



Photo 4. A representative photo of WL7.



Photo 5. A representative photo of WL8.



Photo 6. A representative photo of WL18D.



Photo 7. A representative photo of WL18E.



Photo 8. A representative photo of WL19.



Photo 9. A representative photo of WL20.



Photo 10. A representative photo of WL21.



Photo 11. A representative photo of WL22.



Photo 12. A representative photo of WL26.



Photo 13. A representative photo of WL27.



Photo 14. A representative photo of WL28.



Photo 15. A representative photo of WL29.



Photo 16. A representative photo of WL30.



Photo 17. A representative photo of WL31.



Photo 18. A representative photo of WL34.



Photo 19. A representative photo of WL35.



Photo 20. A representative photo of WL50.



Photo 21. A representative photo of WL53.



Photo 22. A representative photo of WL54.



Photo 23. A representative photo of WL56.



Photo 24. A representative photo of WL57.



Photo 25. A representative photo of WL59.



Photo 26. A representative photo of WL60.



Photo 27. A representative photo of WL66.



Photo 28. A representative photo of WL67.



Photo 29. A representative photo of WL72.



Photo 30. A representative photo of WL73A/B.



Photo 31. A representative photo of WL74.



Photo 32. A representative photo of WL78.



Photo 33. A representative photo of WL79.



Photo 34. A representative photo of WL80.

Assessment Area (AA) Results:

Wetland ID: WL1

Date: July 13, 2023

Observer: Madeline Maher, Maggie Trask

Latitude & Longitude (decimal degrees): 44.870, -64.192

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.37	Moderate	8.80	Higher	5.95	3.90
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.42	Moderate	0.00	Lower	2.94	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.80	Moderate	10.00	0.88
Phosphorus Retention (PR)	10.00	Higher	1.88	Moderate	10.00	1.46
Nitrate Removal & Retention (NR)	10.00	Higher	4.50	Moderate	10.00	4.50
Carbon Sequestration (CS)	1.04	Lower			5.69	
Organic Nutrient Export (OE)	6.04	Moderate			3.94	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.25	Lower	3.91	Moderate	4.82	3.35
Amphibian & Turtle Habitat (AM)	5.57	Moderate	6.22	Higher	6.04	6.89
Waterbird Feeding Habitat (WBF)	4.39	Moderate	10.00	Higher	3.35	10.00
Waterbird Nesting Habitat (WBN)	4.68	Moderate	10.00	Higher	3.39	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.40	Higher	10.00	Higher	7.31	10.00
Pollinator Habitat (POL)	8.92	Higher	10.00	Higher	7.40	10.00
Native Plant Habitat (PH)	2.48	Lower	8.24	Higher	4.89	8.24
Public Use & Recognition (PU)			1.05	Lower		1.02
Wetland Sensitivity (Sens)			5.38	Moderate		3.70
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			7.61	Higher		3.83
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.37	Moderate	8.80	Higher	5.95	3.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.88	Higher	3.61	Moderate	9.46	3.39
AQUATIC SUPPORT Group (max+avg/2 of SFS, NV, OE, WC)	4.73	Moderate	2.61	Lower	3.87	2.23
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.25	Moderate	7.62	Higher	4.30	7.69
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.76	Higher	9.71	Higher	6.96	9.71
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			6.49	Moderate		3.77

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	47.26710512	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	32.07249583	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.32881476	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	32.40617717	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	75.35338243	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO
CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL2

Date: 12 July 2023

Observer: Madeline Maher, Maggie Trask

Latitude & Longitude (decimal degrees): 44.868 -64.189

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	3.68	Lower	9.25	Higher	4.69	4.10
Stream Flow Support (SFS)	1.90	Moderate	7.97	Higher	1.53	5.31
Water Cooling (WC)	4.08	Moderate	2.10	Moderate	2.72	1.14
Sediment Retention & Stabilisation (SR)	3.72	Moderate	2.90	Moderate	5.10	1.42
Phosphorus Retention (PR)	3.42	Moderate	2.23	Moderate	5.88	1.74
Nitrate Removal & Retention (NR)	3.42	Moderate	5.17	Moderate	5.24	5.17
Carbon Sequestration (CS)	5.01	Moderate			7.57	
Organic Nutrient Export (OE)	6.86	Moderate			4.48	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.02	Moderate	4.35	Moderate	5.13	3.59
Amphibian & Turtle Habitat (AM)	7.50	Higher	6.35	Higher	7.05	6.99
Waterbird Feeding Habitat (WBF)	5.09	Moderate	10.00	Higher	3.87	10.00
Waterbird Nesting Habitat (WBN)	4.84	Moderate	10.00	Higher	3.51	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.16	Higher	10.00	Higher	7.10	10.00
Pollinator Habitat (POL)	9.04	Higher	10.00	Higher	7.49	10.00
Native Plant Habitat (PH)	2.04	Lower	8.20	Higher	4.72	8.20
Public Use & Recognition (PU)			0.92	Lower		0.93
Wetland Sensitivity (Sens)			5.38	Moderate		3.70
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			7.46	Higher		3.76
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	3.68	Lower	9.25	Higher	4.69	4.10
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.45	Moderate	4.30	Moderate	6.76	3.97
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.54	Higher	6.39	Moderate	4.30	4.33
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.49	Moderate	7.63	Higher	4.97	7.70
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.73	Higher	9.70	Higher	6.96	9.70
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.42	Moderate		3.73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	34.00302282	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.14935652	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.38374724	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	41.93645975	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	74.9362635	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL4

Date: 13 July 2023

Observer: Madeline Maher, Maggie Trask

Latitude & Longitude (decimal degrees): 44.868 -64.193

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.25	Moderate	9.25	Higher	5.87	4.10
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.42	Moderate	0.00	Lower	2.94	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.17	Moderate	10.00	1.06
Phosphorus Retention (PR)	10.00	Higher	2.23	Moderate	10.00	1.74
Nitrate Removal & Retention (NR)	10.00	Higher	5.17	Moderate	10.00	5.17
Carbon Sequestration (CS)	0.53	Lower			5.44	
Organic Nutrient Export (OE)	6.04	Moderate			3.94	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	1.54	Lower	4.13	Moderate	4.12	3.47
Amphibian & Turtle Habitat (AM)	5.33	Moderate	6.33	Higher	5.92	6.98
Waterbird Feeding Habitat (WBF)	5.12	Moderate	10.00	Higher	3.90	10.00
Waterbird Nesting Habitat (WBN)	5.49	Moderate	10.00	Higher	3.98	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.07	Higher	10.00	Higher	7.03	10.00
Pollinator Habitat (POL)	8.42	Higher	10.00	Higher	6.98	10.00
Native Plant Habitat (PH)	1.41	Lower	8.00	Higher	4.47	8.00
Public Use & Recognition (PU)			1.05	Lower		1.02
Wetland Sensitivity (Sens)			4.96	Moderate		3.58
Wetland Ecological Condition (EC)			1.88	Lower		6.11
Wetland Stressors (STR) (higher score means more stress)			7.57	Higher		3.82
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.25	Moderate	9.25	Higher	5.87	4.10
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.82	Higher	4.18	Moderate	9.43	3.91
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.52	Moderate	2.76	Lower	3.44	2.31
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.34	Moderate	7.63	Higher	4.34	7.70
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.20	Higher	9.67	Higher	6.59	9.67
WETLAND CONDITION (EC)			1.88	Lower		6.11
WETLAND RISK (average of Sensitivity & Stressors)			6.26	Moderate		3.70

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	48.58418931	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	36.84042766	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.44687851	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	33.10292795	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	69.57965938	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: **Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL7

Date: 13 July 2023

Observer: Madeline Maher, Maggie Trask

Latitude & Longitude (decimal degrees): 44.867 -64.191

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.25	Moderate	9.76	Higher	5.87	4.33
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.42	Moderate	0.00	Lower	2.94	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.17	Moderate	10.00	1.06
Phosphorus Retention (PR)	10.00	Higher	2.23	Moderate	10.00	1.74
Nitrate Removal & Retention (NR)	10.00	Higher	5.17	Moderate	10.00	5.17
Carbon Sequestration (CS)	0.53	Lower			5.44	
Organic Nutrient Export (OE)	6.04	Moderate			3.94	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	1.54	Lower	3.75	Moderate	4.12	3.26
Amphibian & Turtle Habitat (AM)	5.33	Moderate	6.06	Higher	5.92	6.76
Waterbird Feeding Habitat (WBF)	4.39	Moderate	10.00	Higher	3.35	10.00
Waterbird Nesting Habitat (WBN)	4.68	Moderate	10.00	Higher	3.39	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.95	Higher	10.00	Higher	6.92	10.00
Pollinator Habitat (POL)	8.42	Higher	10.00	Higher	6.98	10.00
Native Plant Habitat (PH)	0.86	Lower	7.97	Higher	4.25	7.97
Public Use & Recognition (PU)			1.05	Lower		1.02
Wetland Sensitivity (Sens)			5.03	Moderate		3.60
Wetland Ecological Condition (EC)			1.88	Lower		6.11
Wetland Stressors (STR) (higher score means more stress)			7.57	Higher		3.82
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.25	Moderate	9.76	Higher	5.87	4.33
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.82	Higher	4.18	Moderate	9.43	3.91
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.52	Moderate	2.50	Lower	3.44	2.17
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.10	Moderate	7.61	Higher	4.22	7.68
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.09	Higher	9.66	Higher	6.52	9.66
WETLAND CONDITION (EC)			1.88	Lower		6.11
WETLAND RISK (average of Sensitivity & Stressors)			6.30	Moderate		3.71

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	51.25039482	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	36.84042766	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.2857187	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	31.21871857	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	68.45106195	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: **Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL18D

Date: 13 July 2023

Observer: Rohan, Leah

Latitude & Longitude (decimal degrees): 44.843375°N 64.198368°W

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.34	Moderate	6.54	Moderate	6.67	2.90
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.50	Moderate	0.00	Lower	3.00	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.89	Moderate	10.00	0.93
Phosphorus Retention (PR)	10.00	Higher	1.50	Moderate	10.00	1.17
Nitrate Removal & Retention (NR)	10.00	Higher	7.50	Higher	10.00	7.50
Carbon Sequestration (CS)	4.20	Moderate			7.18	
Organic Nutrient Export (OE)	5.55	Moderate			3.63	
Anadromous Fish Habitat (FA)	1.88	Moderate	4.73	Higher	1.23	3.00
Resident Fish Habitat (FR)	3.54	Moderate	4.65	Moderate	1.92	2.90
Aquatic Invertebrate Habitat (INV)	2.67	Lower	5.81	Moderate	4.58	4.37
Amphibian & Turtle Habitat (AM)	5.96	Moderate	3.91	Moderate	6.25	4.98
Waterbird Feeding Habitat (WBF)	5.92	Moderate	10.00	Higher	4.51	10.00
Waterbird Nesting Habitat (WBN)	6.06	Moderate	10.00	Higher	4.40	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.11	Higher	10.00	Higher	7.93	10.00
Pollinator Habitat (POL)	8.78	Higher	10.00	Higher	7.28	10.00
Native Plant Habitat (PH)	3.39	Lower	10.00	Higher	5.25	10.00
Public Use & Recognition (PU)			1.93	Moderate		1.62
Wetland Sensitivity (Sens)			10.00	Higher		5.20
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			4.94	Moderate		2.56
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.34	Moderate	6.54	Moderate	6.67	2.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.27	Higher	5.57	Moderate	9.65	5.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, NV, OE, WC)	4.37	Moderate	3.87	Lower	3.69	2.92
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.37	Moderate	8.33	Higher	4.95	8.09
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.10	Higher	10.00	Higher	7.37	10.00
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			7.47	Higher		3.88

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	41.46279242	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	51.61406812	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	16.90990744	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	44.71666734	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.00880901	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL18E

Date: 13 July 2023

Observer: Rohan Kariyawansa & Leah Reihl

Latitude & Longitude (decimal degrees): 44.861251, 64.203269

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.19	Lower	6.60	Higher	2.08	2.93
Stream Flow Support (SFS)	4.00	Moderate	6.47	Moderate	3.22	4.31
Water Cooling (WC)	5.13	Moderate	2.06	Moderate	3.42	1.12
Sediment Retention & Stabilisation (SR)	2.21	Lower	2.27	Moderate	3.92	1.11
Phosphorus Retention (PR)	0.20	Lower	1.50	Moderate	3.87	1.17
Nitrate Removal & Retention (NR)	3.07	Moderate	5.00	Moderate	4.99	5.00
Carbon Sequestration (CS)	3.40	Moderate			6.80	
Organic Nutrient Export (OE)	6.83	Moderate			4.46	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	5.48	Higher	4.46	Moderate	5.73	3.65
Amphibian & Turtle Habitat (AM)	7.72	Higher	6.39	Higher	7.17	7.02
Waterbird Feeding Habitat (WBF)	5.50	Moderate	6.67	Moderate	4.19	6.67
Waterbird Nesting Habitat (WBN)	5.03	Moderate	6.67	Higher	3.65	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	7.91	Higher	10.00	Higher	6.88	10.00
Pollinator Habitat (POL)	7.55	Moderate	10.00	Higher	6.26	10.00
Native Plant Habitat (PH)	3.69	Moderate	7.71	Higher	5.37	7.71
Public Use & Recognition (PU)			2.60	Moderate		2.08
Wetland Sensitivity (Sens)			9.66	Higher		4.92
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			4.03	Moderate		2.12
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	0.19	Lower	6.60	Higher	2.08	2.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.81	Moderate	3.96	Moderate	5.85	3.71
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.09	Higher	5.40	Moderate	4.97	3.66
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.68	Moderate	5.31	Higher	5.08	5.55
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.14	Higher	9.62	Higher	6.53	9.62
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			6.84	Higher		3.52

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	1.221321276	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	11.12318738	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	32.91006624	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	30.15025435	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	68.71681244	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL19

Date: 12 July 2023

Observer: Rohan, Leah

Latitude & Longitude (decimal degrees): 44.843191°N 64.204809°W

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.98	Moderate	3.78	Moderate	7.16	1 68
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0 00
Water Cooling (WC)	4.79	Moderate	0.00	Lower	3.19	0 00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.50	Moderate	10.00	1 22
Phosphorus Retention (PR)	10.00	Higher	1.70	Moderate	10.00	1 32
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5 00
Carbon Sequestration (CS)	1.86	Lower			6.08	
Organic Nutrient Export (OE)	5.70	Moderate			3.73	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	6.89	Higher	5.05	Moderate	6.30	3 96
Amphibian & Turtle Habitat (AM)	9.60	Higher	4.65	Moderate	8.15	5 59
Waterbird Feeding Habitat (WBF)	7.19	Higher	5.00	Moderate	5.48	5 00
Waterbird Nesting Habitat (WBN)	7.58	Higher	3.33	Moderate	5.50	3 33
Songbird, Raptor, & Mammal Habitat (SBM)	5.33	Moderate	6.67	Moderate	4.64	6 67
Pollinator Habitat (POL)	7.29	Moderate	6.67	Moderate	6.04	6 67
Native Plant Habitat (PH)	1.30	Lower	5.78	Moderate	4.42	5 78
Public Use & Recognition (PU)			3.25	Moderate		2 53
Wetland Sensitivity (Sens)			2.96	Lower		3 01
Wetland Ecological Condition (EC)			6.52	Higher		8 33
Wetland Stressors (STR) (higher score means more stress)			7.18	Higher		3 63
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.98	Moderate	3.78	Moderate	7.16	1 68
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.98	Higher	4.03	Moderate	9.51	3 76
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.62	Higher	3.36	Lower	4.80	2 64
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	7.24	Higher	3.80	Moderate	5.99	4 19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.97	Moderate	6.52	Moderate	5.54	6 52
WETLAND CONDITION (EC)			6.52	Higher		8 33
WETLAND RISK (average of Sensitivity & Stressors)			5.07	Moderate		3 32

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	26.39134237	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	36.21737936	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	18.88980454	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	27.49974757	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	38.89081523	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL20

Date: 12 July 2023

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.842684°N 64.204986°W

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.54	Moderate	10.00	Higher	6.82	4 90
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0 00
Water Cooling (WC)	2.75	Moderate	0.00	Lower	1.83	0 00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.75	Moderate	10.00	1 35
Phosphorus Retention (PR)	10.00	Higher	2.41	Moderate	10.00	1 88
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5 00
Carbon Sequestration (CS)	1.82	Lower			6.06	
Organic Nutrient Export (OE)	4.46	Moderate			2.92	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	3.01	Lower	4.50	Moderate	4.72	3 67
Amphibian & Turtle Habitat (AM)	5.60	Moderate	6.42	Higher	6.06	7 05
Waterbird Feeding Habitat (WBF)	6.14	Moderate	10.00	Higher	4.67	10.00
Waterbird Nesting Habitat (WBN)	6.59	Higher	10.00	Higher	4.77	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.45	Moderate	10.00	Higher	6.49	10.00
Pollinator Habitat (POL)	7.28	Moderate	10.00	Higher	6.03	10.00
Native Plant Habitat (PH)	3.97	Moderate	7.51	Moderate	5.49	7 51
Public Use & Recognition (PU)			2.77	Moderate		2 20
Wetland Sensitivity (Sens)			6.83	Moderate		4.12
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			6.73	Higher		3.42
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.54	Moderate	10.00	Higher	6.82	4 90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.98	Higher	4.19	Moderate	9.51	3 87
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.51	Moderate	3.00	Lower	3.54	2.44
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.13	Moderate	7.64	Higher	4.58	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.84	Higher	9.58	Higher	6.24	9 58
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.78	Higher		3.77

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	65.37718801	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	37.65284046	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.52097054	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	39.1728107	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	65.5874945	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL21

Date: 13 July 2023

Observer: Rohan, Leah

Latitude & Longitude (decimal degrees): 44.842868°N 64.198994°W

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.40	Lower	6.54	Moderate	3.74	2.90
Stream Flow Support (SFS)	2.17	Moderate	6.23	Moderate	1.75	4.15
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	1.46	Lower	2.17	Moderate	3.33	1.06
Phosphorus Retention (PR)	0.00	Lower	1.70	Moderate	3.47	1.32
Nitrate Removal & Retention (NR)	2.64	Lower	5.00	Moderate	4.68	5.00
Carbon Sequestration (CS)	3.13	Lower			6.68	
Organic Nutrient Export (OE)	5.61	Moderate			3.67	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.89	Moderate	0.79	Lower	5.08	1.67
Amphibian & Turtle Habitat (AM)	4.42	Moderate	2.41	Lower	5.44	3.75
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.27	Moderate	6.67	Moderate	4.58	6.67
Pollinator Habitat (POL)	5.18	Moderate	6.67	Moderate	4.29	6.67
Native Plant Habitat (PH)	0.53	Lower	5.18	Lower	4.11	5.18
Public Use & Recognition (PU)			2.56	Moderate		2.06
Wetland Sensitivity (Sens)			4.22	Lower		3.37
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.21	Higher		3.64
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	2.40	Lower	6.54	Moderate	3.74	2.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.47	Moderate	3.98	Moderate	5.61	3.73
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.27	Moderate	4.29	Moderate	3.85	3.04
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.65	Lower	1.45	Lower	3.26	2.25
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	4.46	Moderate	6.42	Moderate	4.46	6.42
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.71	Moderate		3.51

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	15.70010903	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.824431305	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	18.2870653	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.841531883	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.64272034	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL22

Date: 13 July, 2023

Observer: Rohan, Leah

Latitude & Longitude (decimal degrees): 44 841889°N 64.201288°W

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.99	Lower	6.65	Higher	3.43	2.95
Stream Flow Support (SFS)	3.03	Moderate	6.26	Moderate	2.44	4.16
Water Cooling (WC)	4.63	Moderate	0.83	Lower	3.08	0.45
Sediment Retention & Stabilisation (SR)	2.01	Lower	2.75	Moderate	3.77	1.35
Phosphorus Retention (PR)	0.40	Lower	2.05	Moderate	3.99	1.60
Nitrate Removal & Retention (NR)	3.48	Moderate	7.50	Higher	5.29	7.50
Carbon Sequestration (CS)	3.60	Moderate			6.90	
Organic Nutrient Export (OE)	6.19	Moderate			4.05	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.66	Lower	3.71	Moderate	4.58	3.24
Amphibian & Turtle Habitat (AM)	6.56	Moderate	3.05	Moderate	6.56	4.27
Waterbird Feeding Habitat (WBF)	4.56	Moderate	2.50	Lower	3.47	2.50
Waterbird Nesting Habitat (WBN)	4.71	Moderate	2.50	Moderate	3.42	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	6.91	Moderate	3.33	Moderate	6.01	3.33
Pollinator Habitat (POL)	7.93	Moderate	3.33	Moderate	6.57	3.33
Native Plant Habitat (PH)	0.51	Lower	5.31	Lower	4.11	5.31
Public Use & Recognition (PU)			2.70	Moderate		2.15
Wetland Sensitivity (Sens)			5.39	Moderate		3.71
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			7.24	Higher		3.66
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	1.99	Lower	6.65	Higher	3.43	2.95
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.99	Moderate	5.80	Moderate	5.94	5.49
AQUATIC SUPPORT Group (max+avg/2 of SFS, NV, OE, WC)	5.16	Moderate	4.93	Moderate	4.06	3.39
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.86	Moderate	2.33	Moderate	4.63	3.06
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.52	Moderate	4.65	Lower	6.07	4.65
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			6.31	Moderate		3.68

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	13.26280609	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	17.34180604	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	25.42637011	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	11.3240199	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	30.31639948	Low

Habitat Rule Satisfied? NO

Support Rule Satisfied? NO

Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL26

Date: July 11, 2023

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.775167, 64.215189

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.24	Lower	4.17	Moderate	2.12	1.85
Stream Flow Support (SFS)	2.34	Moderate	7.61	Moderate	1.89	5.06
Water Cooling (WC)	6.13	Higher	2.23	Moderate	4.08	1.21
Sediment Retention & Stabilisation (SR)	2.15	Lower	1.70	Moderate	3.88	0.83
Phosphorus Retention (PR)	2.67	Lower	1.34	Moderate	5.42	1.04
Nitrate Removal & Retention (NR)	2.50	Lower	4.00	Moderate	4.58	4.00
Carbon Sequestration (CS)	3.62	Moderate			6.91	
Organic Nutrient Export (OE)	8.70	Higher			5.69	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.93	Moderate	5.35	Higher	2.68	3.34
Aquatic Invertebrate Habitat (INV)	4.91	Moderate	5.54	Moderate	5.49	4.23
Amphibian & Turtle Habitat (AM)	6.76	Higher	6.98	Higher	6.67	7.51
Waterbird Feeding Habitat (WBF)	6.17	Moderate	6.67	Moderate	4.70	6.67
Waterbird Nesting Habitat (WBN)	4.79	Moderate	6.67	Higher	3.47	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	9.01	Higher	10.00	Higher	7.84	10.00
Pollinator Habitat (POL)	9.08	Higher	10.00	Higher	7.52	10.00
Native Plant Habitat (PH)	3.04	Lower	8.45	Higher	5.12	8.45
Public Use & Recognition (PU)			2.25	Moderate		1.84
Wetland Sensitivity (Sens)			8.85	Higher		4.69
Wetland Ecological Condition (EC)			5.36	Moderate		7.78
Wetland Stressors (STR) (higher score means more stress)			2.82	Lower		1.55
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	0.24	Lower	4.17	Moderate	2.12	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.18	Moderate	3.17	Moderate	6.05	2.98
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.11	Higher	6.37	Moderate	4.99	4.28
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.64	Moderate	6.06	Higher	5.08	6.17
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.06	Higher	9.74	Higher	7.33	9.74
WETLAND CONDITION (EC)			5.36	Moderate		7.78
WETLAND RISK (average of Sensitivity & Stressors)			5.84	Moderate		3.12

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	1.000134674	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	10.07665448	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	45.24766982	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	34.18896244	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	78.50733826	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL27

Date: July 26, 2023

Observer: Maggie Trask and Gracie Rushton

Latitude & Longitude (decimal degrees): 44.812, -64.209

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	4.65	Moderate	5.53	Moderate	5.42	2.45
Stream Flow Support (SFS)	1.52	Moderate	8.93	Higher	1.22	5.94
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	1.93	Moderate	6.11	0.94
Phosphorus Retention (PR)	2.92	Lower	1.29	Moderate	5.57	1.00
Nitrate Removal & Retention (NR)	3.97	Moderate	3.33	Lower	5.64	3.33
Carbon Sequestration (CS)	6.08	Moderate			8.07	
Organic Nutrient Export (OE)	6.54	Moderate			4.28	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.76	Higher	0.69	Lower	6.25	1.62
Amphibian & Turtle Habitat (AM)	2.40	Lower	4.06	Moderate	4.38	5.10
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.10	Moderate	10.00	Higher	5.31	10.00
Pollinator Habitat (POL)	7.82	Moderate	10.00	Higher	6.48	10.00
Native Plant Habitat (PH)	1.52	Lower	7.26	Moderate	4.51	7.26
Public Use & Recognition (PU)			2.20	Moderate		1.81
Wetland Sensitivity (Sens)			8.85	Higher		4.69
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			5.39	Moderate		2.77
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	4.65	Moderate	5.53	Moderate	5.42	2.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	5.29	Moderate	2.76	Lower	7.21	2.55
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.24	Moderate	6.07	Moderate	4.60	4.23
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.44	Lower	2.43	Moderate	2.63	3.06
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.48	Moderate	9.54	Higher	5.95	9.54
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			7.12	Higher		3.73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	25.71948583	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.58320617	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	31.76991628	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.509701517	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.84110247	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL28

Date: July 2y, 2023

Observer: Maggie Trask and Gracie Rushton

Latitude & Longitude (decimal degrees): 44.810, -64.207

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	7.47	Moderate	8.29	Higher	7.52	3.68
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	2.88	Lower	8.98	Higher	4.44	4.40
Phosphorus Retention (PR)	4.43	Moderate	8.66	Higher	6.52	6.74
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher	10.00	10.00
Carbon Sequestration (CS)	8.94	Higher			9.43	
Organic Nutrient Export (OE)	8.98	Higher			5.87	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.22	Lower	0.03	Lower	4.40	1.26
Amphibian & Turtle Habitat (AM)	0.00	Lower	3.70	Moderate	3.11	4.81
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.10	Moderate	10.00	Higher	4.44	10.00
Pollinator Habitat (POL)	6.82	Moderate	10.00	Higher	5.65	10.00
Native Plant Habitat (PH)	2.34	Lower	6.70	Moderate	4.84	6.70
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.74	Higher		4.66
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.88	Moderate		3.01
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	7.47	Moderate	8.29	Higher	7.52	3.68
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.28	Higher	9.61	Higher	8.80	8.52
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.89	Higher	0.02	Lower	4.22	0.84
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.00	Lower	2.22	Moderate	1.87	2.89
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.78	Moderate	9.45	Higher	5.31	9.45
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.31	Higher		3.84

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	61.96050609	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	79.55564682	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.107138808	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	54.65704406	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL29

Date: July 27th 2023

Observer: Maggie Trask and Gracie Rushton

Latitude & Longitude (decimal degrees): 44.8009, -64.206

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.89	Lower	8.29	Higher	3.36	3 68
Stream Flow Support (SFS)	5.79	Higher	8.73	Higher	4.67	5 81
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0 00
Sediment Retention & Stabilisation (SR)	2.00	Lower	9.55	Higher	3.76	4 68
Phosphorus Retention (PR)	4.23	Moderate	9.02	Higher	6.39	7 01
Nitrate Removal & Retention (NR)	2.09	Lower	10.00	Higher	4.28	10 00
Carbon Sequestration (CS)	3.20	Lower			6.71	
Organic Nutrient Export (OE)	8.24	Higher			5.38	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	5.53	Higher	0.45	Lower	5.75	1.49
Amphibian & Turtle Habitat (AM)	2.32	Lower	3.77	Moderate	4.34	4 86
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0 00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0 00
Songbird, Raptor, & Mammal Habitat (SBM)	5.28	Moderate	10.00	Higher	4.59	10 00
Pollinator Habitat (POL)	8.59	Higher	10.00	Higher	7.12	10 00
Native Plant Habitat (PH)	3.81	Moderate	7.24	Moderate	5.42	7 24
Public Use & Recognition (PU)			1.85	Moderate		1 57
Wetland Sensitivity (Sens)			8.31	Higher		4 54
Wetland Ecological Condition (EC)			7.10	Higher		8 61
Wetland Stressors (STR) (higher score means more stress)			6.60	Higher		3 36
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	1.89	Lower	8.29	Higher	3.36	3 68
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.56	Moderate	9.76	Higher	6.00	8 61
AQUATIC SUPPORT Group (max+avg/2 of SFS, NV, OE, WC)	6.56	Higher	5.89	Moderate	4.85	4.12
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.39	Lower	2.26	Moderate	2.60	2 92
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.24	Higher	9.54	Higher	6.41	9 54
WETLAND CONDITION (EC)			7.10	Higher		8 61
WETLAND RISK (average of Sensitivity & Stressors)			7.46	Higher		3 95

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	15.660947	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	34.70095624	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	38.69735913	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.149162573	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	69.04778359	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL30

Date: July 25th 2023

Observer: Maggie Trask and Gracie Rushton

Latitude & Longitude (decimal degrees): 44.807, -64.210

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	7.00	Moderate	5.53	Moderate	7.17	2.45
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	2.88	Lower	9.36	Higher	4.44	4.58
Phosphorus Retention (PR)	2.47	Lower	8.48	Higher	5.29	6.60
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher	10.00	10.00
Carbon Sequestration (CS)	6.53	Higher			8.29	
Organic Nutrient Export (OE)	7.56	Higher			4.94	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.13	Lower	0.42	Lower	4.77	1.47
Amphibian & Turtle Habitat (AM)	2.38	Lower	3.70	Moderate	4.37	4.81
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.10	Moderate	10.00	Higher	4.44	10.00
Pollinator Habitat (POL)	6.82	Moderate	10.00	Higher	5.65	10.00
Native Plant Habitat (PH)	1.43	Lower	6.70	Moderate	4.47	6.70
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.94	Moderate		4.15
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			7.11	Higher		3.60
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	7.00	Moderate	5.53	Moderate	7.17	2.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.74	Higher	9.64	Higher	8.50	8.53
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.12	Moderate	0.28	Lower	3.69	0.98
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.43	Lower	2.22	Moderate	2.62	2.89
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.63	Moderate	9.45	Higher	5.25	9.45
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.03	Higher		3.87

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	38.68336238	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	74.57366976	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.42281409	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.169776315	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.22226645	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL31

Date: July 28, 2023

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.80558, -64.20192

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.54	Higher	5.53	Moderate	8.32	2.45
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	1.93	Moderate	5.56	0.94
Phosphorus Retention (PR)	3.11	Moderate	1.29	Moderate	5.69	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.41	Higher			8.23	
Organic Nutrient Export (OE)	6.59	Moderate			4.30	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.07	Moderate	0.64	Lower	5.15	1.59
Amphibian & Turtle Habitat (AM)	1.30	Lower	2.20	Lower	3.80	3.57
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.58	Moderate	5.00	Moderate	5.72	5.00
Pollinator Habitat (POL)	7.47	Moderate	3.33	Moderate	6.19	3.33
Native Plant Habitat (PH)	4.14	Moderate	5.08	Lower	5.55	5.08
Public Use & Recognition (PU)			1.99	Moderate		1.66
Wetland Sensitivity (Sens)			10.00	Higher		5.11
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			3.81	Moderate		2.02
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	8.54	Higher	5.53	Moderate	8.32	2.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.98	Higher	2.76	Lower	8.68	2.55
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.62	Moderate	0.43	Lower	3.76	1.06
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.78	Lower	1.32	Lower	2.28	2.14
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.77	Higher	4.78	Lower	6.01	4.78
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.90	Higher		3.57

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	47.21689521	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.00252776	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.970462216	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.028306075	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.34252302	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL34

Date: July 25th 2023

Observer: Maggie Trask and Gracie Rushton

Latitude & Longitude (decimal degrees): 44.800, -64.218

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.30	Moderate	5.41	Moderate	5.90	2.40
Stream Flow Support (SFS)	2.14	Moderate	8.86	Higher	1.72	5.89
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.73	Moderate	2.38	Moderate	6.67	1.17
Phosphorus Retention (PR)	2.15	Lower	1.29	Moderate	5.09	1.00
Nitrate Removal & Retention (NR)	4.74	Higher	3.33	Lower	6.20	3.33
Carbon Sequestration (CS)	7.69	Higher			8.84	
Organic Nutrient Export (OE)	5.59	Moderate			3.65	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	7.54	Higher	0.50	Lower	6.57	1.51
Amphibian & Turtle Habitat (AM)	2.23	Lower	3.84	Moderate	4.29	4.92
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.48	Moderate	10.00	Higher	4.77	10.00
Pollinator Habitat (POL)	8.44	Higher	10.00	Higher	6.99	10.00
Native Plant Habitat (PH)	1.59	Lower	7.25	Moderate	4.54	7.25
Public Use & Recognition (PU)			1.46	Moderate		1.30
Wetland Sensitivity (Sens)			9.82	Higher		4.97
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			6.04	Moderate		3.09
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.30	Moderate	5.41	Moderate	5.90	2.40
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	6.39	Higher	2.83	Lower	7.77	2.58
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.68	Higher	5.99	Moderate	4.78	4.18
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.34	Lower	2.30	Moderate	2.58	2.95
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.80	Higher	9.54	Higher	6.21	9.54
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.93	Higher		4.03

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	28.67178975	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.09301355	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	33.98588522	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.086335824	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	64.90781211	Low

Habitat Rule Satisfied? NO

Support Rule Satisfied? NO

Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL35

Date: 14 July 2023

Observer: Rohan Kariyawansa, Leah Reihl

Latitude & Longitude (decimal degrees): 44.79867, - 64.217242

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.13	Moderate	10.00	Higher	6 52	4.78
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0 00	0 00
Water Cooling (WC)	3.88	Moderate	0.00	Lower	2 58	0 00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.92	Moderate	10.00	1.43
Phosphorus Retention (PR)	10.00	Higher	2.41	Moderate	10.00	1 88
Nitrate Removal & Retention (NR)	10.00	Higher	4.50	Moderate	10.00	4 50
Carbon Sequestration (CS)	3.08	Lower			6 65	
Organic Nutrient Export (OE)	4.89	Moderate			3 20	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0 00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0 00	0 00
Aquatic Invertebrate Habitat (INV)	0.51	Lower	3.57	Moderate	3.70	3.17
Amphibian & Turtle Habitat (AM)	3.44	Lower	6.65	Higher	4 92	7 24
Waterbird Feeding Habitat (WBF)	5.66	Moderate	10.00	Higher	4 31	10.00
Waterbird Nesting Habitat (WBN)	3.26	Moderate	10.00	Higher	2 36	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.51	Higher	10.00	Higher	7.40	10.00
Pollinator Habitat (POL)	9.19	Higher	10.00	Higher	7 62	10.00
Native Plant Habitat (PH)	2.01	Lower	10.00	Higher	4.71	10.00
Public Use & Recognition (PU)			1.79	Moderate		1 53
Wetland Sensitivity (Sens)			10.00	Higher		5.17
Wetland Ecological Condition (EC)			5.22	Moderate		7.71
Wetland Stressors (STR) (higher score means more stress)			6.61	Higher		3 36
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.13	Moderate	10.00	Higher	6 52	4.78
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.13	Higher	3.89	Moderate	9 58	3 55
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.61	Moderate	2.38	Lower	3 03	2.11
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.06	Moderate	7.66	Higher	3 62	7.72
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.88	Higher	10.00	Higher	7.10	10.00
WETLAND CONDITION (EC)			5.22	Moderate		7.71
WETLAND RISK (average of Sensitivity & Stressors)			8.31	Higher		4 26

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	61.30825516	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	35.51495217	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.580321215	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	31.15670733	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	78.81962713	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL50

Date: September 20, 2023

Observer: Karlie Mackie & Polly Nguyen

Latitude & Longitude (decimal degrees): 44.781322, -64.200375

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.93	Higher	5.36	Moderate	8.61	2 38
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0 00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0 00
Sediment Retention & Stabilisation (SR)	5.73	Moderate	0.76	Lower	6.67	0 37
Phosphorus Retention (PR)	3.49	Moderate	0.71	Lower	5.93	0 56
Nitrate Removal & Retention (NR)	10.00	Higher	1.33	Lower	10.00	1 33
Carbon Sequestration (CS)	7.13	Higher			8.57	
Organic Nutrient Export (OE)	5.78	Moderate			3.78	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	0.00	Lower	0.00	Lower	3.36	1 02
Amphibian & Turtle Habitat (AM)	0.00	Lower	3.18	Moderate	2.99	4 38
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0 00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0 00
Songbird, Raptor, & Mammal Habitat (SBM)	3.61	Moderate	10.00	Higher	3.14	10.00
Pollinator Habitat (POL)	5.69	Moderate	6.67	Moderate	4.71	6 67
Native Plant Habitat (PH)	0.00	Lower	4.84	Lower	3.83	4 84
Public Use & Recognition (PU)			0.46	Lower		0 61
Wetland Sensitivity (Sens)			7.70	Higher		4 37
Wetland Ecological Condition (EC)			3.04	Lower		6 67
Wetland Stressors (STR) (higher score means more stress)			1.88	Lower		1 09
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	8.93	Higher	5.36	Moderate	8.61	2 38
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.29	Higher	1.13	Lower	8.90	1 04
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.61	Moderate	0.00	Lower	2.78	0 68
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.00	Lower	1.91	Moderate	1.79	2 63
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	4.39	Moderate	8.58	Higher	4.30	8 58
WETLAND CONDITION (EC)			3.04	Lower		6 67
WETLAND RISK (average of Sensitivity & Stressors)			4.79	Moderate		2 73

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	47.84168824	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.403565915	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	37.709572	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL53

Date: September 21, 2023

Observer: Alex Scott, Polly Nguyen

Latitude & Longitude (decimal degrees): 44.77933333, -64.21745000

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.72	Moderate	4.46	Moderate	6.22	1 98
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0 00
Water Cooling (WC)	6.00	Higher	0.00	Lower	4.00	0 00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.86	Moderate	10.00	0 91
Phosphorus Retention (PR)	10.00	Higher	1.25	Moderate	10.00	0 97
Nitrate Removal & Retention (NR)	10.00	Higher	4.00	Moderate	10.00	4 00
Carbon Sequestration (CS)	5.24	Moderate			7.68	
Organic Nutrient Export (OE)	6.58	Moderate			4.30	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	5.04	Moderate	3.09	Moderate	5.55	2 91
Amphibian & Turtle Habitat (AM)	3.35	Lower	5.44	Moderate	4.88	6 24
Waterbird Feeding Habitat (WBF)	3.17	Moderate	10.00	Higher	2.41	10.00
Waterbird Nesting Habitat (WBN)	5.28	Moderate	10.00	Higher	3.83	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.26	Moderate	10.00	Higher	6.32	10.00
Pollinator Habitat (POL)	9.14	Higher	10.00	Higher	7.58	10.00
Native Plant Habitat (PH)	2.53	Lower	7.97	Higher	4.91	7 97
Public Use & Recognition (PU)			2.61	Moderate		2 09
Wetland Sensitivity (Sens)			10.00	Higher		5 61
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			7.95	Higher		4 00
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.72	Moderate	4.46	Moderate	6.22	1 98
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.40	Higher	3.19	Moderate	9.71	2 98
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.49	Moderate	2.06	Lower	4.50	1 94
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.82	Moderate	7.54	Higher	3.55	7 62
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.73	Higher	9.66	Higher	6.92	9 66
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.97	Higher		4 80

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	25.49921611	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.95903751	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.30951425	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	28.8376996	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	74.64419111	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL54

Date: September 21, 2023

Observer: Alex Scott and Polly Nguyen

Latitude & Longitude (decimal degrees): 44.77915278, -64.21675556

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.65	Moderate	4.46	Moderate	6.16	1 98
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0 00
Water Cooling (WC)	6.75	Higher	0.00	Lower	4.50	0 00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.86	Moderate	10.00	0 91
Phosphorus Retention (PR)	10.00	Higher	1.25	Moderate	10.00	0 97
Nitrate Removal & Retention (NR)	10.00	Higher	4.00	Moderate	10.00	4 00
Carbon Sequestration (CS)	5.05	Moderate			7.59	
Organic Nutrient Export (OE)	5.94	Moderate			3.88	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0 00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0 00
Aquatic Invertebrate Habitat (INV)	4.92	Moderate	2.91	Moderate	5.50	2 81
Amphibian & Turtle Habitat (AM)	3.09	Lower	5.28	Moderate	4.74	6.11
Waterbird Feeding Habitat (WBF)	3.00	Moderate	10.00	Higher	2.28	10.00
Waterbird Nesting Habitat (WBN)	5.21	Moderate	10.00	Higher	3.78	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.96	Moderate	10.00	Higher	6.05	10.00
Pollinator Habitat (POL)	8.74	Higher	10.00	Higher	7.24	10.00
Native Plant Habitat (PH)	1.40	Lower	7.77	Higher	4.46	7.77
Public Use & Recognition (PU)			2.61	Moderate		2 09
Wetland Sensitivity (Sens)			10.00	Higher		5 36
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			7.95	Higher		4 00
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.65	Moderate	4.46	Moderate	6.16	1 98
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.38	Higher	3.19	Moderate	9.70	2 98
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.58	Higher	1.94	Lower	4.49	1 87
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.73	Moderate	7.53	Higher	3.45	7 61
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.22	Higher	9.63	Higher	6.58	9 63
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			8.97	Higher		4 68

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	25.17930371	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.88375858	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.80173076	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	28.09825102	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	69.50710032	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL56

Date: August 4, 2023

Observer: Cuun Niesink and Ross Szendrei

Latitude & Longitude (decimal degrees): 44.778353, -64.205090

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	8.29	Higher	5.19	Moderate	8.13	2.30
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	1.36	Moderate	6.11	0.67
Phosphorus Retention (PR)	0.70	Lower	1.29	Moderate	4.18	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.17	Higher			8.59	
Organic Nutrient Export (OE)	6.37	Moderate			4.16	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	6.06	Higher	0.89	Lower	5.97	1.73
Amphibian & Turtle Habitat (AM)	3.15	Lower	4.17	Moderate	4.77	5.19
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.41	Moderate	10.00	Higher	5.58	10.00
Pollinator Habitat (POL)	6.72	Moderate	10.00	Higher	5.57	10.00
Native Plant Habitat (PH)	1.73	Lower	7.05	Moderate	4.59	7.05
Public Use & Recognition (PU)			2.08	Moderate		1.72
Wetland Sensitivity (Sens)			9.96	Higher		5.01
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			2.29	Lower		1.29
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	8.29	Higher	5.19	Moderate	8.13	2.30
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.86	Higher	2.66	Lower	8.61	2.50
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.74	Moderate	0.60	Lower	4.25	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.89	Lower	2.50	Moderate	2.86	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.84	Moderate	9.51	Higher	5.42	9.51
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.12	Moderate		3.15

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	43.01662816	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.93721245	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.827107792	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.719195674	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.51569866	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL57

Date: September 21, 2023

Observer: Alex Scott, Polly Nguyen

Latitude & Longitude (decimal degrees): 44.76848056, -64.21194444

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	2.04	Lower	4.79	Moderate	3.47	2.13
Stream Flow Support (SFS)	1.79	Moderate	7.99	Higher	1.44	5.31
Water Cooling (WC)	8.40	Higher	0.72	Lower	5.60	0.39
Sediment Retention & Stabilisation (SR)	1.84	Lower	0.45	Lower	3.63	0.22
Phosphorus Retention (PR)	1.78	Lower	0.43	Lower	4.86	0.33
Nitrate Removal & Retention (NR)	3.04	Moderate	1.11	Lower	4.97	1.11
Carbon Sequestration (CS)	2.88	Lower			6.56	
Organic Nutrient Export (OE)	7.76	Higher			5.07	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	7.10	Higher	3.50	Moderate	6.39	3.13
Amphibian & Turtle Habitat (AM)	3.61	Moderate	6.00	Higher	5.02	6.71
Waterbird Feeding Habitat (WBF)	3.03	Moderate	10.00	Higher	2.31	10.00
Waterbird Nesting Habitat (WBN)	5.03	Moderate	10.00	Higher	3.64	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.98	Higher	10.00	Higher	7.81	10.00
Pollinator Habitat (POL)	9.37	Higher	10.00	Higher	7.76	10.00
Native Plant Habitat (PH)	3.72	Moderate	8.53	Higher	5.39	8.53
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			4.95	Moderate		3.58
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	2.04	Lower	4.79	Moderate	3.47	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.71	Moderate	0.89	Lower	5.78	0.83
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.33	Higher	6.03	Moderate	5.51	4.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.68	Moderate	7.60	Higher	3.61	7.67
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.36	Higher	9.75	Higher	7.40	9.75
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			4.65	Moderate		2.93

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	9.758792763	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	2.409879549	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	44.20228906	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	27.97585604	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.55006582	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL59

Date: August 3, 2023

Observer: Ross Szendrei

Latitude & Longitude (decimal degrees): 44.769374, - 64.200117

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	7.78	Higher	4.34	Moderate	7.75	1.93
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	1.36	Moderate	6.11	0.67
Phosphorus Retention (PR)	2.79	Lower	1.29	Moderate	5.49	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.49	Higher			8.74	
Organic Nutrient Export (OE)	6.04	Moderate			3.95	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	7.69	Higher	0.89	Lower	6.63	1.72
Amphibian & Turtle Habitat (AM)	3.05	Lower	4.17	Moderate	4.72	5.20
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.43	Moderate	10.00	Higher	5.60	10.00
Pollinator Habitat (POL)	7.32	Moderate	10.00	Higher	6.07	10.00
Native Plant Habitat (PH)	2.99	Lower	7.22	Moderate	5.10	7.22
Public Use & Recognition (PU)			2.08	Moderate		1.72
Wetland Sensitivity (Sens)			10.00	Higher		5.67
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			2.29	Lower		1.29
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	7.78	Higher	4.34	Moderate	7.75	1.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.16	Higher	2.66	Lower	8.79	2.50
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.56	Higher	0.59	Lower	4.64	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.83	Lower	2.50	Moderate	2.83	3.12
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.45	Moderate	9.54	Higher	5.83	9.54
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.14	Moderate		3.48

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	33.80525656	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.73791678	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.281155702	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.586714303	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.54933013	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL60

Date: September 21, 2023

Observer: Alex Scott, Polly Nguyen

Latitude & Longitude (decimal degrees): 44.76970278, -64.21178333

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	5.23	Moderate	4.79	Moderate	5.85	2.13
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	6.75	Higher	0.00	Lower	4.50	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	0.91	Lower	10.00	0.44
Phosphorus Retention (PR)	10.00	Higher	0.86	Lower	10.00	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	2.92	Lower			6.58	
Organic Nutrient Export (OE)	6.50	Moderate			4.25	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	4.58	Moderate	3.47	Moderate	5.36	3.11
Amphibian & Turtle Habitat (AM)	2.12	Lower	6.02	Higher	4.24	6.72
Waterbird Feeding Habitat (WBF)	4.89	Moderate	10.00	Higher	3.73	10.00
Waterbird Nesting Habitat (WBN)	5.91	Moderate	10.00	Higher	4.28	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.40	Moderate	10.00	Higher	6.44	10.00
Pollinator Habitat (POL)	8.65	Higher	10.00	Higher	7.17	10.00
Native Plant Habitat (PH)	2.13	Lower	7.87	Higher	4.75	7.87
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			6.01	Moderate		3.88
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	5.23	Moderate	4.79	Moderate	5.85	2.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.12	Higher	1.78	Lower	9.57	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.60	Higher	2.31	Lower	4.44	2.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.25	Moderate	7.60	Higher	3.37	7.67
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.35	Higher	9.64	Higher	6.64	9.64
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			5.18	Moderate		3.08

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	25.06464409	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.18504478	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.97141325	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	32.2770379	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	70.92400831	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL66

Date: 4 July 2023

Observer: Rohan Kariyawansa, Ross Szendrei, Leah Reihl

Latitude & Longitude (decimal degrees): 44.763001, - 64.224855

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.40	Moderate	10.00	Higher	6.72	4.45
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	7.40	Higher	0.00	Lower	4.93	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.32	Moderate	10.00	0.65
Phosphorus Retention (PR)	10.00	Higher	2.14	Moderate	10.00	1.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.33	Lower	10.00	2.33
Carbon Sequestration (CS)	4.10	Moderate			7.14	
Organic Nutrient Export (OE)	6.35	Moderate			4.15	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.10	Lower	3.66	Moderate	4.76	3.22
Amphibian & Turtle Habitat (AM)	4.81	Moderate	5.74	Higher	5.64	6.49
Waterbird Feeding Habitat (WBF)	4.43	Moderate	10.00	Higher	3.37	10.00
Waterbird Nesting Habitat (WBN)	5.76	Moderate	10.00	Higher	4.18	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.02	Moderate	10.00	Higher	6.11	10.00
Pollinator Habitat (POL)	9.05	Higher	10.00	Higher	7.50	10.00
Native Plant Habitat (PH)	1.72	Lower	7.87	Higher	4.59	7.87
Public Use & Recognition (PU)			1.99	Moderate		1.66
Wetland Sensitivity (Sens)			10.00	Higher		5.91
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.77	Moderate		2.48
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.40	Moderate	10.00	Higher	6.72	4.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.26	Higher	2.13	Lower	9.64	1.94
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.81	Higher	2.44	Lower	4.20	2.14
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.38	Moderate	7.57	Higher	4.14	7.65
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.49	Higher	9.64	Higher	6.78	9.64
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.38	Higher		4.19

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	64.01483071	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.75876125	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	14.17924649	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	33.17225199	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	72.23014852	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL67

Date: July 4 2023

Observer: Rohan Kariyawansa, Ross Szendrei, Leah Reihl

Latitude & Longitude (decimal degrees): 44.763281, -64.226393

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	7.48	Moderate	9.81	Higher	7.53	4.35
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	5.02	Moderate	1.59	Moderate	6.11	0.78
Phosphorus Retention (PR)	2.88	Lower	1.50	Moderate	5.55	1.17
Nitrate Removal & Retention (NR)	10.00	Higher	2.33	Lower	10.00	2.33
Carbon Sequestration (CS)	4.75	Moderate			7.45	
Organic Nutrient Export (OE)	8.35	Higher			5.45	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	8.58	Higher	0.66	Lower	6.99	1.60
Amphibian & Turtle Habitat (AM)	2.34	Lower	4.03	Moderate	4.35	5.09
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	6.04	Moderate	10.00	Higher	5.26	10.00
Pollinator Habitat (POL)	6.28	Moderate	10.00	Higher	5.21	10.00
Native Plant Habitat (PH)	1.71	Lower	6.82	Moderate	4.58	6.82
Public Use & Recognition (PU)			1.99	Moderate		1.66
Wetland Sensitivity (Sens)			10.00	Higher		5.41
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.77	Moderate		2.48
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	7.48	Moderate	9.81	Higher	7.53	4.35
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.83	Higher	2.07	Lower	8.64	1.88
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.41	Higher	0.44	Lower	5.05	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.41	Lower	2.42	Moderate	2.61	3.05
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.48	Moderate	9.47	Higher	5.14	9.47
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.38	Higher		3.94

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	73.4110197	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.21181718	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.833907774	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.401487659	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.90797481	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL72

Date: July 12, 2023

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.756724, -64.223884

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.95	Moderate	5.53	Moderate	7.13	2.45
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	2.25	Moderate	0.00	Lower	1.50	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.58	Moderate	10.00	1.26
Phosphorus Retention (PR)	10.00	Higher	1.70	Moderate	10.00	1.32
Nitrate Removal & Retention (NR)	10.00	Higher	4.17	Moderate	10.00	4.17
Carbon Sequestration (CS)	3.46	Moderate			6.83	
Organic Nutrient Export (OE)	4.24	Moderate			2.77	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	2.42	Lower	3.71	Moderate	4.48	3.24
Amphibian & Turtle Habitat (AM)	5.21	Moderate	6.11	Higher	5.85	6.80
Waterbird Feeding Habitat (WBF)	3.88	Moderate	6.67	Moderate	2.95	6.67
Waterbird Nesting Habitat (WBN)	4.43	Moderate	6.67	Higher	3.21	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	8.54	Higher	10.00	Higher	7.44	10.00
Pollinator Habitat (POL)	8.86	Higher	10.00	Higher	7.34	10.00
Native Plant Habitat (PH)	0.89	Lower	8.26	Higher	4.26	8.26
Public Use & Recognition (PU)			2.28	Moderate		1.87
Wetland Sensitivity (Sens)			9.63	Higher		4.92
Wetland Ecological Condition (EC)			7.10	Higher		8.61
Wetland Stressors (STR) (higher score means more stress)			6.57	Higher		3.34
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.95	Moderate	5.53	Moderate	7.13	2.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.18	Higher	3.49	Moderate	9.60	3.21
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.23	Moderate	2.47	Lower	3.33	2.16
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.96	Moderate	5.28	Higher	4.13	5.41
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.48	Higher	9.71	Higher	6.89	9.71
WETLAND CONDITION (EC)			7.10	Higher		8.61
WETLAND RISK (average of Sensitivity & Stressors)			8.10	Higher		4.13

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	38.42254097	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	32.04548771	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.995376813	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	20.87823906	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	72.62360549	Low

3a. Functional WSS Determination: Automatic Method

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: **Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL73 A/B

Date: July 12, 2023

Observer: Ross Szendrei

Latitude & Longitude (decimal degrees): 44.756621, -64.224936

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.54	Lower	5.53	Moderate	2.35	2.45
Stream Flow Support (SFS)	4.41	Moderate	8.49	Higher	3.56	5.65
Water Cooling (WC)	6.29	Higher	3.92	Moderate	4.19	2.13
Sediment Retention & Stabilisation (SR)	1.56	Lower	1.05	Lower	3.41	0.52
Phosphorus Retention (PR)	2.33	Lower	1.34	Moderate	5.20	1.04
Nitrate Removal & Retention (NR)	2.62	Lower	4.00	Moderate	4.67	4.00
Carbon Sequestration (CS)	4.93	Moderate			7.53	
Organic Nutrient Export (OE)	7.51	Higher			4.91	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	2.45	Lower	3.51	Moderate	4.49	3.13
Amphibian & Turtle Habitat (AM)	4.13	Moderate	6.59	Higher	5.29	7.19
Waterbird Feeding Habitat (WBF)	5.17	Moderate	10.00	Higher	3.94	10.00
Waterbird Nesting Habitat (WBN)	2.69	Moderate	10.00	Higher	1.95	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.76	Higher	10.00	Higher	7.63	10.00
Pollinator Habitat (POL)	7.90	Moderate	10.00	Higher	6.54	10.00
Native Plant Habitat (PH)	1.17	Lower	8.06	Higher	4.37	8.06
Public Use & Recognition (PU)			1.66	Moderate		1.43
Wetland Sensitivity (Sens)			9.81	Higher		4.97
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	0.54	Lower	5.53	Moderate	2.35	2.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.89	Moderate	3.07	Lower	6.37	2.93
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.34	Higher	6.90	Moderate	4.60	4.64
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.78	Moderate	7.66	Higher	3.76	7.72
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.35	Higher	9.68	Higher	6.90	9.68
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			7.08	Higher		3.62

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	2.979126118	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	11.93247054	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	43.70797331	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	28.98557532	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	71.14786626	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL74

Date: July 78, 2023

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.75638, -64.22801

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.26	Lower	5.47	Moderate	2.14	2.43
Stream Flow Support (SFS)	6.00	Higher	8.64	Higher	4.83	5.75
Water Cooling (WC)	7.55	Higher	3.12	Moderate	5.03	1.69
Sediment Retention & Stabilisation (SR)	1.80	Lower	8.51	Higher	3.60	4.17
Phosphorus Retention (PR)	2.21	Lower	8.13	Higher	5.13	6.32
Nitrate Removal & Retention (NR)	2.68	Lower	10.00	Higher	4.71	10.00
Carbon Sequestration (CS)	4.66	Moderate			7.40	
Organic Nutrient Export (OE)	10.00	Higher			6.98	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	4.67	Moderate	4.16	Moderate	5.40	3.49
Amphibian & Turtle Habitat (AM)	5.32	Moderate	6.53	Higher	5.91	7.14
Waterbird Feeding Habitat (WBF)	4.99	Moderate	10.00	Higher	3.80	10.00
Waterbird Nesting Habitat (WBN)	4.93	Moderate	10.00	Higher	3.58	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.77	Higher	10.00	Higher	7.63	10.00
Pollinator Habitat (POL)	8.77	Higher	10.00	Higher	7.27	10.00
Native Plant Habitat (PH)	4.23	Moderate	8.30	Higher	5.59	8.30
Public Use & Recognition (PU)			2.34	Moderate		1.90
Wetland Sensitivity (Sens)			8.88	Higher		4.70
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.17	Moderate		2.19
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	0.26	Lower	5.47	Moderate	2.14	2.43
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.75	Moderate	9.44	Higher	6.31	8.41
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.53	Higher	6.97	Moderate	6.27	4.70
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.18	Moderate	7.65	Higher	4.28	7.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.02	Higher	9.72	Higher	7.23	9.72
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.52	Moderate		3.45

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	1.403698436	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	35.39281009	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	59.47533483	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	31.99986108	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	77.8895099	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: **Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL78

Date: July 10, 2023

Observer: Ross Szendrei and Renee MacQaurrie

Latitude & Longitude (decimal degrees): 44.75205, -64.22536

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	0.00	Lower	5.64	Moderate	1.66	2.50
Stream Flow Support (SFS)	5.45	Higher	8.74	Higher	4.39	5.82
Water Cooling (WC)	4.92	Moderate	3.97	Moderate	3.28	2.15
Sediment Retention & Stabilisation (SR)	0.00	Lower	0.91	Lower	2.12	0.44
Phosphorus Retention (PR)	1.96	Lower	0.86	Lower	4.97	0.67
Nitrate Removal & Retention (NR)	1.73	Lower	2.22	Lower	4.02	2.22
Carbon Sequestration (CS)	3.66	Moderate			6.93	
Organic Nutrient Export (OE)	7.57	Higher			4.95	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.48	Moderate	3.60	Moderate	4.91	3.18
Amphibian & Turtle Habitat (AM)	3.45	Lower	6.27	Higher	4.93	6.93
Waterbird Feeding Habitat (WBF)	4.16	Moderate	10.00	Higher	3.17	10.00
Waterbird Nesting Habitat (WBN)	4.65	Moderate	10.00	Higher	3.37	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.76	Higher	10.00	Higher	7.62	10.00
Pollinator Habitat (POL)	9.01	Higher	10.00	Higher	7.47	10.00
Native Plant Habitat (PH)	1.61	Lower	8.36	Higher	4.55	8.36
Public Use & Recognition (PU)			2.08	Moderate		1.72
Wetland Sensitivity (Sens)			10.00	Higher		5.25
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			2.29	Lower		1.29
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	0.00	Lower	5.64	Moderate	1.66	2.50
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.75	Moderate	1.78	Lower	5.72	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.46	Higher	7.09	Moderate	4.67	4.77
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.55	Moderate	7.63	Higher	3.61	7.69
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.74	Higher	9.73	Higher	7.08	9.73
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.14	Moderate		3.27

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	0	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	4.880524536	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	45.83023072	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	27.0727981	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	75.26502516	Low

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Assessment Area (AA) Results:

Wetland ID: WL79

Date: July 5, 2023

Observer: Ross Szendrei, Rohan Kariyawansa, Leah Reihl

Latitude & Longitude (decimal degrees): 44.752062, -64.219648

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	6.60	Moderate	5.66	Moderate	6.87	2.51
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	3.04	Moderate	0.00	Lower	2.03	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.05	Lower	10.00	0.52
Phosphorus Retention (PR)	10.00	Higher	0.63	Lower	10.00	0.49
Nitrate Removal & Retention (NR)	10.00	Higher	2.17	Lower	10.00	2.17
Carbon Sequestration (CS)	4.86	Moderate			7.50	
Organic Nutrient Export (OE)	5.63	Moderate			3.68	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (NV)	2.78	Lower	4.67	Moderate	4.63	3.76
Amphibian & Turtle Habitat (AM)	5.55	Moderate	5.59	Higher	6.03	6.37
Waterbird Feeding Habitat (WBF)	6.43	Moderate	10.00	Higher	4.89	10.00
Waterbird Nesting Habitat (WBN)	5.64	Moderate	10.00	Higher	4.09	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.66	Higher	10.00	Higher	7.54	10.00
Pollinator Habitat (POL)	8.84	Higher	10.00	Higher	7.33	10.00
Native Plant Habitat (PH)	3.25	Lower	10.00	Higher	5.20	10.00
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			9.11	Higher		4.77
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			5.88	Moderate		3.01
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	6.60	Moderate	5.66	Moderate	6.87	2.51
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.36	Higher	1.72	Lower	9.69	1.61
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.24	Moderate	3.11	Lower	3.60	2.51
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.98	Moderate	7.56	Higher	4.52	7.64
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.88	Higher	10.00	Higher	7.12	10.00
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.49	Higher		3.89

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	37.37581474	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.13369656	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	13.21452964	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	37.60803384	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	78.791548	Moderate

Habitat Rule Satisfied? NO
 Support Rule Satisfied? NO
 Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: **Site is not a WSS**

Assessment Area (AA) Results:

Wetland ID: WL80

Date: July 6, 2023

Observer: Ross Szendrei

Latitude & Longitude (decimal degrees): 44.749691, -64.220245

Scores will appear below after data are entered in worksheets OF, F, and S. See Manual for definitions and descriptions of how scores were computed.

Wetland Functions or Other Attributes:	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Water Storage & Delay (WS)	1.74	Lower	9.70	Higher	3.25	4.30
Stream Flow Support (SFS)	2.72	Moderate	8.57	Higher	2.19	5.70
Water Cooling (WC)	2.42	Moderate	2.18	Moderate	1.61	1.18
Sediment Retention & Stabilisation (SR)	2.27	Lower	1.32	Moderate	3.97	0.65
Phosphorus Retention (PR)	2.62	Lower	1.50	Moderate	5.38	1.17
Nitrate Removal & Retention (NR)	3.16	Moderate	2.22	Lower	5.06	2.22
Carbon Sequestration (CS)	4.79	Moderate			7.46	
Organic Nutrient Export (OE)	6.39	Moderate			4.18	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Aquatic Invertebrate Habitat (INV)	3.95	Moderate	4.65	Moderate	5.10	3.75
Amphibian & Turtle Habitat (AM)	5.68	Moderate	6.90	Higher	6.10	7.45
Waterbird Feeding Habitat (WBF)	5.76	Moderate	10.00	Higher	4.38	10.00
Waterbird Nesting Habitat (WBN)	5.59	Moderate	10.00	Higher	4.06	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.15	Higher	10.00	Higher	7.96	10.00
Pollinator Habitat (POL)	9.33	Higher	10.00	Higher	7.73	10.00
Native Plant Habitat (PH)	2.97	Lower	8.56	Higher	5.09	8.56
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			10.00	Higher		5.48
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.62	Moderate		2.41
Summary Ratings for Grouped Functions						
HYDROLOGIC Group (WS)	1.74	Lower	9.70	Higher	3.25	4.30
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.00	Moderate	1.95	Lower	6.47	1.78
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.13	Moderate	6.85	Moderate	4.19	4.62
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.58	Moderate	7.69	Higher	4.50	7.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.24	Higher	9.76	Higher	7.44	9.76
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.31	Higher		3.94

NOTE: A score of 0 does not mean the function or benefit is absent from the wetland. It means only that this wetland has a capacity that is equal or less than the lowest-scoring one, for that function or benefit, from among all the NS calibration wetlands that were assessed previously.

NOVA SCOTIA - Functional WSS Interpretation Tool

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	16.89921886	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.805516551	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.13678786	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	35.23514017	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	80.39814771	Moderate

Habitat Rule Satisfied? NO

Support Rule Satisfied? NO

Habitat/Support Hybrid Rule Satisfied? NO

CONCLUSION: Site is not a WSS

Watercourse ID	Watercourse Name	Watercourse Type	Watercourse Measurements (m)	Bankfull Depth (m)	Substrate (%)	Habitat Characteristic	Direction of Flow	Velocity (m/s)	Water Quality	In Stream Cover*	Undercut Measurements (m)	Bank Characteristics	Bank Notes	Fish Presence	Evidence of Alteration	Other Observations
WC1	Tributary of South Branch	Small permanent	Channel Width = 3.87 Wetted width = 3.08 Right Bank Depth = 0.13 Center Depth = 0.15 Left Bank Depth = 0.10 Thalweg = 0.26	0.97	Bedrock = 0 Boulder (>25 cm) = 75 Cobble (3-25 cm) = 65 Gravel (2 mm-3 cm) = 10 Sand (0.06-2 mm) = 0 Fines (<0.06 mm) = 0	Run, Pool	North	0.17	Not recorded.	Boulders = A Overhanging vegetation = A Canopy Cover = A Instream vegetation = T Large woody debris = N Small woody debris = T Deep pools = N	Left Bank = 0 Right Bank = 0	High stability; No undercut	Rocky, mosses, well vegetated, mixed wood, graminoids, forbes	None observed; Habitat Suitability is low	Yes, culvert present.	Good flow
WC2	Tributary of South Branch	Small permanent	Channel Width = 3.35 Wetted width = 1.4 Right Bank Depth = 0.13 Center Depth = 0.23 Left Bank Depth = 0.19 Thalweg = 0.24	2.11	Bedrock = 0 Boulder (>25 cm) = 60 Cobble (3-25 cm) = 25 Gravel (2 mm-3 cm) = 30 Sand (0.06-2 mm) = 0 Fines (<0.06 mm) = 5	Run	North	0.5	Not recorded.	Boulders = A Overhanging vegetation = A Canopy Cover = M Instream vegetation = A Large woody debris = T Small woody debris = T Deep pools = N	Left Bank = 0 Right Bank = 0	No undercut; Vegetated; sloped; Right bank moderately stable; Left bank unstable	Shrubs, tall grass, abundant rock, sloping	None observed; Habitat Suitability is low	Yes, metal culvert under Trunk 14, and wooden box culvert under dirt road	Located near highway where culvert discharges; Abundant organic matter in streambed; beech and white ash trees present; exposed roots
WC3	Black brook. Larger outside fo AA	Large permanent	Channel Width = 6.58 Wetted width = 5.49 Right Bank Depth = 0.43 Center Depth = 0.46 Left Bank Depth = 0.40 Thalweg = 0.52	0.49	Bedrock = 0 Boulder (>25 cm) = 60 Cobble (3-25 cm) = 0 Gravel (2 mm-3 cm) = 55 Sand (0.06-2 mm) = 30 Fines (<0.06 mm) = 0	Pool, Run	Southwest	0.12	pH = 5.25 Temperature (C) = 21 Dissolved Oxygen (mg/L) = Not recorded Dissolved Oxygen (%) = Not recorded Conductivity (mS/cm) = 0.03	Boulders = A Overhanging vegetation = M Canopy Cover = T Instream vegetation = A Large woody debris = N Small woody debris = N Deep pools = M	Left Bank = 0 Right Bank = 0	High stability; No undercut	Vegetated with royal ferns	None observed; Habitat Suitability is high	Yes, bridge present	Large areas of open water
WC4	Black Brook. Can be avoided	Small permanent	Channel Width = 2.8 Wetted width = 2.2 Right Bank Depth = 0.14 Center Depth = 0.40 Left Bank Depth = 0.20 Thalweg = 0.45	0.62	Bedrock = 0 Boulder (>25 cm) = 80 Cobble (3-25 cm) = 0 Gravel (2 mm-3 cm) = 0 Sand (0.06-2 mm) = 20 Fines (<0.06 mm) = 0	Pool, Riffle, Rapids, other	West	1.09	Not recorded.	Boulders = A Overhanging vegetation = N Canopy Cover = A Instream vegetation = N Large woody debris = T Small woody debris = T Deep pools = T	Left Bank = 0.12 Right Bank = 0.05	High stability; Both sides undercut; Pockets of soil erosion between boulders	Mossy boulders and exposed roots	None observed; Habitat Suitability is high	Yes, bridge present	Pools along edges of watercourse with a sand & cobble substrate; mainly boulder substrate in faster-moving areas
WC6A	Tr butary of Black Brook	Small permanent	Channel Width = 1.3 Wetted width = 0.98 Right Bank Depth = 0.09 Center Depth = 0.09 Left Bank Depth = 0.08 Thalweg = 0.15	0.1	Bedrock = 0 Boulder (>25 cm) = 0 Cobble (3-25 cm) = 73 Gravel (2 mm-3 cm) = 10 Sand (0.06-2 mm) = 17 Fines (<0.06 mm) = 0	Riffle, Run	North	0.14	Not recorded.	Boulders = N Overhanging vegetation = M Canopy Cover = M Instream vegetation = N Large woody debris = N Small woody debris = M Deep pools = N	Left Bank = 0.13 Right Bank = 0.18	High stability; both banks undercut; pockets of soil erosion between boulders	Abundant moss and vegetation with a few trees close to the water. Trace patches of bare sand.	None observed; Habitat Suitability is moderate	Yes, culvert present.	Spagnum moss in substrate and along the edge of watercourse with abundant woody debris
WC10A	Unnamed watercourse	Small permanent	Channel Width = 1.77 Wetted width = 1.17 Right Bank Depth = 0.03 Center Depth = 0.14 Left Bank Depth = 0.10 Thalweg = 0.14	0.27	Bedrock = 0 Boulder (>25 cm) = 5 Cobble (3-25 cm) = 0 Gravel (2 mm-3 cm) = 5 Sand (0.06-2 mm) = 85 Fines (<0.06 mm) = 5	Pool	North	N/A	pH = 3.90 Temperature (C) = 17.1 Dissolved Oxygen (mg/L) = Not recorded Dissolved Oxygen (%) = Not recorded Conductivity (mS/cm) = 0.04 mS	Boulders = N Overhanging vegetation = T Canopy Cover = A Instream vegetation = T Large woody debris = N Small woody debris = T Deep pools = N	Left Bank = 0.05 Right Bank = 0.10	Right bank moderately stable; left bank unstable; Both sides undercut	Moss, roots, soil	None observed; Habitat Suitability is low	None observed.	Heavy vegetation & spagnum moss along bank
WC10B	Unnamed watercourse	Small permanent	Channel Width = 1.27 Wetted width = 1.11 Right Bank Depth = 0.26 Center Depth = 0.19 Left Bank Depth = 0.20 Thalweg = 0.26	0.31	Bedrock = 0 Boulder (>25 cm) = 5 Cobble (3-25 cm) = 0 Gravel (2 mm-3 cm) = 0 Sand (0.06-2 mm) = 60 Fines (<0.06 mm) = 35	Run	Northwest	N/A	pH = 3.99 Temperature (C) = 17.3 Dissolved Oxygen (mg/L) = Not recorded Dissolved Oxygen (%) = Not recorded Conductivity (mS/cm) = 0.03 mS	Boulders = N Overhanging vegetation = N Canopy Cover = A Instream vegetation = N Large woody debris = T Small woody debris = T Deep pools = N	Left Bank = 0.17 Right Bank = 0.10	Moderate stability; Both sides undercut	Roots, gravel, soil, moss	None observed; Habitat Suitability is low	None observed.	Abundant woody debris; exposed fines and sandy patches along bank; heavily vegetated
WC11	Smeltzer Brook	Small permanent	Channel Width = 3 Wetted width = 2.4 Right Bank Depth = 0.25 Center Depth = 0.23 Left Bank Depth = 0.24 Thalweg = 0.26	0.29	Bedrock = 20 Boulder (>25 cm) = 0 Cobble (3-25 cm) = 70 Gravel (2 mm-3 cm) = 10 Sand (0.06-2 mm) = 0 Fines (<0.06 mm) = 0	Run	North	0.32	Not recorded.	Boulders = A Overhanging vegetation = T Canopy Cover = M Instream vegetation = N Large woody debris = N Small woody debris = T Deep pools = N	Left Bank = 0.19 Right Bank = 0.25	High stability; Both sides undercut; Banks have been fortified at crossing	Moss, ferns, woody shrubs	None observed; Habitat Suitability is low	Yes, bridge was present, but has been swept away by flood waters	Clear that stream banks have been fortified using boulder placement and angular aggregate at crossing; natural bank is 1.7 above water surface (where road was crossing). Former crossing bridge has been washed out downstream
WC17	Unnamed Watercourse	Small permanent	Channel Width = 2.32 Wetted width = 2.07 Right Bank Depth = 0.28 Center Depth = 0.30 Left Bank Depth = 0.31 Thalweg = 0.40	0.6	Bedrock = 0 Boulder (>25 cm) = 20 Cobble (3-25 cm) = 75 Gravel (2 mm-3 cm) = 30 Sand (0.06-2 mm) = 0 Fines (<0.06 mm) = 0	Flat, Pool	North	N/A	pH = 3.88 Temperature (C) = 16.5 Dissolved Oxygen (mg/L) = Not recorded Dissolved Oxygen (%) = Not recorded Conductivity (mS/cm) = 0.03	Boulders = M Overhanging vegetation = M Canopy Cover = A Instream vegetation = N Large woody debris = N Small woody debris = N Deep pools = N	Left Bank = 0 Right Bank = 0	Moderate stability; No undercut	Softwood dominant mixed wood	None observed; Habitat Suitability is moderate	None observed.	Abundant spagnum moss around watercourse; tea coloured water
WC23	Unnamed Watercourse	Intermittent	Channel Width = 2.62 Wetted width = 0.89 Right Bank Depth = 0.7 Center Depth = 0.11 Left Bank Depth = 0.05 Thalweg = 0.12	0.78	Bedrock = 0 Boulder (>25 cm) = 0 Cobble (3-25 cm) = 0 Gravel (2 mm-3 cm) = 15 Sand (0.06-2 mm) = 15 Fines (<0.06 mm) = 70	Flat	South	0.2	pH = 3.76 Temperature (C) = 15.1 Dissolved Oxygen (mg/L) = 4.1 Dissolved Oxygen (%) = 43.2 Conductivity (mS/cm) = 0.04	Boulders = N Overhanging vegetation = T Canopy Cover = T Instream vegetation = M Large woody debris = N Small woody debris = N Deep pools = N	Left Bank = 0 Right Bank = 0	Low stability; No undercutting	Trees and rootmats on one side, road on the other side	None observed; Habitat Suitability is low	Yes, culvert present.	The upstream is road side drainage which moves into a culvert and crosses under the road. The culvert helped to increase velocity of water and channelization has begun to occur
WC24	Tributary of Southwest Brook	Small permanent	Channel Width = 3.8 Wetted width = 2 Right Bank Depth = 0.25 Center Depth = 0.4 Left Bank Depth = 0.25 Thalweg = 0.5	0.5	Bedrock = 0 Boulder (>25 cm) = 60 Cobble (3-25 cm) = 5 Gravel (2 mm-3 cm) = 25 Sand (0.06-2 mm) = 10 Fines (<0.06 mm) = 0	Run	South	2	pH = 3.12 Temperature (C) = 13.1 Dissolved Oxygen (mg/L) = 8.45 Dissolved Oxygen (%) = 78.4 Conductivity (mS/cm) = 0.05	Boulders = A Overhanging vegetation = T Canopy Cover = M Instream vegetation = N Large woody debris = N Small woody debris = N Deep pools = N	Left Bank = 0.13 Right Bank = 0.05	High stability; Minor undercutting	Mixedwood trees and boulders	None observed; Habitat Suitability is low	None observed.	Some blowdown along banks
WC27A/B	Tributary of Avon River	Small permanent	Channel Width = 0.97 Wetted width = 0.87 Right Bank Depth = 0.05 Center Depth = 0.10 Left Bank Depth = 0.17 Thalweg = 0.17	0.39	Bedrock = 0 Boulder (>25 cm) = 20 Cobble (3-25 cm) = 10 Gravel (2 mm-3 cm) = 0 Sand (0.06-2 mm) = 10 Fines (<0.06 mm) = 30	Riffle	North	N/A	pH = 3.83 Temperature (C) = 15.8 Dissolved Oxygen (mg/L) = Not recorded Dissolved Oxygen (%) = Not recorded Conductivity (mS/cm) = 0.04 mS	Boulders = M Overhanging vegetation = A Canopy Cover = A Instream vegetation = T Large woody debris = M Small woody debris = M Deep pools = N	Left Bank = 0 Right Bank = 0.09	High stability; Right bank undercut	Moss and tree roots, some graminoid/herb roots	None observed; Habitat Suitability is low	Yes, culvert present along both segments.	70% moss cover in substrate; shallow and intermittent in sections

* N = None, T = Trace, M = Moderate, A = Abundant



Photo 1. A representative photo of WC1.



Photo 2. A representative photo of WC2.



Photo 3. A representative photo of WC3.



Photo 4. A representative photo of WC4.



Photo 5. A representative photo of W6A.



Photo 6. A representative photo of WC10A.



Photo 7. A representative photo of WC10B.



Photo 8. A representative photo of WC11.



Photo 9. A representative photo of WC17.



Photo 10. A representative photo of WC23.



Photo 10. A representative photo of WC24.

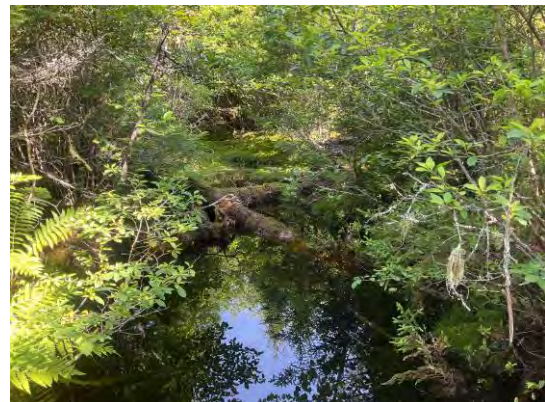


Photo 11. A representative photo of WC27A/B.

APPENDIX J
STRUM OLD GROWTH FIELD DATA

GIS Mapstand: F097-00819

Plot Number: 1

Date: 08/02/2023

UTM: 20T 404629 4962254

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	rM	wB				
2								
4								
6		3						
8		1						
10								
12			1	2				
14								
16	1							
18	1		1					
20	1							
22	2		1					
24	3							
26								
28	1		1					
30								
32								
34	1							
36								
38	2							
40								
42	1							
44	1							
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-00819

Plot Number: 2

Date: 08/02/2023

UTM: 20T 404681 4962182

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	bF	rM	wP			
2							
4							
6							
8							
10							
12	1						
14		2					
16			1				
18			1				
20							
22							
24	1						
26	1						
28							
30	1						
32							
34	2						
36	2						
38	3						
40	1						
42	1			1			
44							
46							
48							
50	1						
52							
54							
56	1						
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-00819

Plot Number: 3

Date: 08/02/2023

UTM: 20T 404672 4962087

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	wP					
2								
4								
6								
8								
10		1						
12								
14								
16								
18								
20								
22	1							
24	1							
26	1							
28	1							
30								
32								
34	1							
36	1							
38								
40								
42								
44								
46			1					
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-00791

Plot Number: 1

Date: 08/02/2023

UTM: 20T 404580 4962351

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM	bF				
2							
4							
6			1				
8							
10							
12	1						
14	1						
16	1						
18	1						
20	2						
22		1					
24							
26							
28		1					
30	2						
32	3						
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-00791

Plot Number: 2

Date: 08/02/2023

UTM: 20T 404446 4962485

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	wP	wB	tA			
2							
4							
6	2						
8	1						
10							
12							
14							
16							
18							
20			1				
22							
24	1						
26	3						
28	2			1			
30	4						
32	2						
34							
36	1						
38							
40							
42	1						
44	1	1					
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							



GIS Mapstand: F097-00791

Plot Number: 3

Date: 08/02/2023

UTM: 20T 404552 4962469

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	bF	rS	rM				
2							
4							
6							
8							
10	1	1	1				
12							
14	1						
16	1		1				
18		1					
20							
22		1					
24							
26							
28		1					
30		3					
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-00791

Plot Number: 4

Date: 08/02/2023

UTM: 20T 404634 4962500

VT: SH3

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	yB	rM	bF	eH		
2							
4							
6							
8							
10							
12							
14	1						
16							
18							
20	1						
22	2			1			
24			1				
26							
28	1						
30	1		1				
32	3						
34	1						
36	1						
38	1						
40	1	1	1				
42	1						
44	1						
46							
48					1		
50							
52							
54					1		
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-00791

Plot Number: 5

Date: 08/02/2023

UTM: 20T 404678 4962410

VT: SH3

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	bF	rM	eH			
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24	1						
26	1			1			
28			1				
30	2						
32	1	1					
34	1						
36							
38	1						
40	2						
42	1						
44							
46	1						
48	1						
50							
52	1						
54							
56	1						
58				1			
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01064

Plot Number: 1

Date: 08/03/2023

UTM: 20T 403770 4960289

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	wP	rM	bF			
2							
4							
6				4			
8							
10	1		1	1			
12	1						
14			1				
16			1				
18	2						
20							
22	2						
24							
26							
28							
30		1					
32							
34	1						
36							
38							
40							
42	1						
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							



GIS Mapstand: F097-01064

Plot Number: 2

Date: 08/03/2023

UTM: 20T 403728 4960373

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	wP					
2								
4								
6		1						
8								
10		1						
12		1						
14	1							
16								
18								
20								
22	1							
24								
26								
28								
30								
32								
34	3							
36	2							
38								
40								
42								
44								
46								
48								
50								
52			2					
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-01064

Plot Number: 3

Date: 08/03/2023

UTM: 20T 403542 4960523

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF						
2								
4								
6		1						
8								
10								
12								
14		1						
16								
18								
20	1	1						
22								
24								
26	3							
28								
30								
32								
34								
36								
38								
40	1							
42								
44								
46								
48	2							
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-01064

Plot Number: 4

Date: 08/03/2023

UTM: 20T 403549 4960611

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	wP	bF				
2							
4							
6							
8	1						
10			1				
12							
14							
16	3						
18							
20	2						
22							
24			1				
26							
28	1						
30		1					
32	1						
34		1					
36							
38	1						
40	1						
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01064

Plot Number: 5

Date: 08/03/2023

UTM: 20T 403540 4960703

VT: SH6

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	bF	rM				
2							
4		1					
6							
8							
10		2					
12		2					
14							
16		1					
18		1					
20		1	3				
22							
24	1						
26							
28	1		1				
30							
32							
34	2						
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01061

Plot Number: 1

Date: 08/03/2023

UTM: 20T 404034 4960787

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rM	rS					
2							
4							
6							
8							
10							
12	1						
14	1						
16							
18		1					
20	3	1					
22	1	1					
24		2					
26	3						
28							
30	1						
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01061

Plot Number: 2

Date: 08/03/2023

UTM: 20T 404068 4960860

VT: TH8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	sM	yB	rM					
2								
4								
6								
8								
10								
12	2							
14								
16								
18								
20			1					
22	1							
24								
26								
28								
30								
32			1					
34			1					
36			1					
38			1					
40			1					
42		2	1					
44			1					
46								
48								
50		1						
52								
54		1						
56								
58		1						
60								
62								
64								
66								
68+								

GIS Mapstand: F097-01061

Plot Number: 3

Date: 08/09/2023

UTM: 20T 403946 4960910

VT: MW1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	yB	rS	rM				
2							
4							
6							
8							
10							
12		1					
14		1					
16		1					
18		2	1				
20							
22		1					
24							
26							
28		4					
30		2					
32		1	1				
34	1	1					
36							
38		1					
40							
42							
44	1	2					
46	1						
48							
50							
52							
54			1				
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01798

Plot Number: 1

Date: 08/09/2023

UTM: 20T 404492 4957838

VT: WC5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	bF	rS	rM	bS			
2							
4							
6	1						
8							
10							
12	1						
14	1						
16	1						
18			1				
20							
22		1	1				
24		2					
26		3	1				
28		1		1			
30							
32							
34		1					
36		1					
38							
40							
42							
44							
46		1					
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01798

Plot Number: 2

Date: 08/09/2023

UTM: 20T 404478 4957749

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	yB	rM				
2							
4							
6							
8							
10							
12	1						
14	1						
16	2						
18	1						
20							
22	2						
24							
26	3		1				
28	6	1					
30	3	1	1				
32	1						
34	1	1					
36	1						
38							
40							
42							
44	1						
46							
48	1						
50							
52							
54							
56		1					
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01798

Plot Number: 3

Date: 08/09/2023

UTM: 20T 404560 4957814

VT: SH4

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	wB	bF	wP			
2							
4							
6	1						
8	2		1				
10	1	1	1				
12	1		1				
14			1				
16	2						
18	1		1				
20							
22	1						
24							
26							
28	1						
30	1						
32	1						
34				1			
36				1			
38	2						
40							
42							
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01799

Plot Number: 1

Date: 08/09/2023

UTM: 20T 404635 4957755

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	yB						
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32		1						
34								
36	2							
38								
40	2							
42	3							
44	1							
46								
48	1							
50	3							
52								
54	2							
56								
58	1							
60	1							
62								
64								
66								
68+								



GIS Mapstand: F097-01799

Plot Number: 2

Date: 08/09/2023

UTM: 20T 404696 4957709

VT: MW1

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM	yB				
2							
4							
6							
8							
10							
12	1	1					
14							
16	1	1					
18		1					
20							
22	1	1					
24							
26							
28							
30	1						
32							
34	2						
36							
38	1						
40	1						
42							
44							
46	1						
48							
50			1				
52	3						
54	1						
56							
58			1				
60							
62							
64							
66							
68+							

GIS Mapstand: F097-01799

Plot Number: 3

Date: 08/09/2023

UTM: 20T 404606 4957694

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM					
2							
4							
6							
8							
10	1	2					
12							
14	1						
16		1					
18	1						
20	2	1					
22							
24	1	1					
26	1	1					
28							
30	2						
32							
34							
36	1						
38							
40	1						
42	1						
44	2						
46	2						
48	1						
50	1						
52							
54	1						
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: H097-01799

Plot Number: 1

Date: 08/09/2023

UTM: 20T 404571 4967584

VT: SH5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM	bF				
2							
4							
6							
8							
10							
12							
14							
16	4	1					
18	4						
20	2						
22		2					
24	2						
26	3						
28	3						
30			1				
32	3						
34	1						
36							
38	2						
40							
42							
44	1						
46							
48	1						
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: H097-01799

Plot Number: 2

Date: 08/10/2023

UTM: 20T 404443 4957553

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	yB	bF	rM			
2							
4							
6							
8							
10							
12							
14							
16	1						
18							
20							
22							
24							
26	1			1			
28		1					
30				1			
32	2						
34	2	1	1				
36		1		1			
38	1						
40	1						
42	1						
44							
46							
48							
50							
52							
54							
56							
58							
60							
62							
64							
66							
68+							

GIS Mapstand: H097-01799

Plot Number: 3

Date: 08/10/2023

UTM: 20T 404254 4967509

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM					
2							
4							
6							
8							
10							
12		1					
14	1						
16	1	1					
18	1						
20		1					
22	1						
24		2					
26							
28							
30							
32	3						
34	1	1					
36							
38							
40							
42	1						
44							
46							
48	1						
50	1						
52							
54							
56							
58							
60	1						
62							
64							
66							
68+							

GIS Mapstand: F097-01778

Plot Number: 1

Date: 08/10/2023

UTM: 20T 403927 4957729

VT: WC5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS							
2								
4								
6								
8								
10	1							
12	1							
14	3							
16	3							
18								
20	3							
22	2							
24	4							
26								
28	1							
30	1							
32	1							
34	3							
36								
38								
40								
42								
44	1							
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-01778

Plot Number: 2

Date: 08/10/2023

UTM: 20T 403877 4957626

VT: WC5

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	rS	rM					
2								
4								
6								
8	1							
10								
12								
14		1						
16								
18	1							
20	1	2						
22		2						
24		4						
26		3						
28								
30		2						
32								
34								
36		2						
38			1					
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: F097-01778

Plot Number: 3

Date: 08/10/2023

UTM: 20T 403834 4957740

VT: SH4a

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	bF	rM					
2								
4								
6								
8								
10		1						
12	1	1						
14		1						
16	1		1					
18	1							
20	2							
22	2							
24	2							
26								
28								
30	1							
32	1	1						
34	1							
36	2							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



GIS Mapstand: F097-00808

Plot Number: 1

Date: 08/10/2023

UTM: 20T 403412 4961825

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	bF	tA	rS	rM				
2								
4								
6								
8								
10								
12								
14								
16								
18	1							
20								
22	1		1					
24	1			1				
26				1				
28								
30								
32		1	1					
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								

GIS Mapstand: F097-00808

Plot Number: 2

Date: 08/10/2023

UTM: 20T 403444 4961937

VT: WD8

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM	bF	tL			
2							
4							
6		1	1				
8			2				
10							
12	1	1	1				
14	1	1					
16							
18							
20							
22			1				
24							
26				1			
28	1						
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							
52							
54							
56	1						
58							
60							
62							
64							
66							
68+							

GIS Mapstand: F097-00808

Plot Number: 3

Date: 08/10/2023

UTM: 20T 403338 4962022

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rM	rS	wP	bF			
2							
4							
6							
8							
10							
12							
14		1					
16				1			
18	1						
20	1						
22							
24	1			1			
26	1						
28							
30							
32							
34							
36		2					
38		1					
40		2					
42							
44							
46							
48		1					
50							
52							
54			2				
56							
58							
60		1					
62							
64							
66							
68+							

GIS Mapstand: F097-00808

Plot Number: 4

Date: 08/10/2023

UTM: 20T 403244 4962125

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES						
	rS	rM	bF				
2							
4							
6							
8							
10							
12							
14			1				
16							
18							
20							
22			1				
24							
26							
28							
30		1					
32							
34							
36							
38							
40							
42							
44							
46							
48	1						
50							
52							
54							
56							
58							
60							
62	1						
64							
66							
68+							

GIS Mapstand: F097-00808

Plot Number: 5

Date: 08/10/2023

UTM: 20T 403306 4962249

VT: MW2

DBH (cm)	LIVE TREES Basal Area Tally - SPECIES							
	rS	tA	rM					
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22			1					
24								
26	2							
28	2							
30		1						
32	4							
34	1							
36	2							
38	2							
40								
42	1							
44								
46	1							
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68+								



Photo 1: Representative photo of stand ID F097-00808 captured at Plot 4 at 15:07 on August 10, 2023.



Photo 2: Representative photo of stand ID F097-01778 captured at Plot 1 at 10:40 on August 10, 2023



Photo 3: Representative photo of stand ID H097-01799 captured at Plot 3 at 9:45 on August 10, 2023.



Photo 4: Representative photo of stand ID F097-01799 captured at Plot 2 at 14:42 on August 9, 2023.



Photo 5: Representative photo of stand ID F097-01798 captured at Plot 3 at 13:37 on August 9, 2023.



Photo 6: Representative photo of stand ID F097-01061 captured at Plot 1 at 13:33 on August 3, 2023.



Photo 7: Representative photo of stand ID F097-01064 captured at Plot 4 at 12:11 on August 3, 2023.



Photo 8: Representative photo of stand ID F097-00791 captured at Plot 2 at 13:02 on August 2, 2023.



Photo 9: Representative photo of stand ID F097-00819 captured at Plot 2 at 11:25 on August 2, 2023.

APPENDIX K
STRUM LICHEN ASSESSMENT



November 14, 2022

Mr. Glenn Goudey
Nova Scotia Power Inc.
1223 Lower Water St.
Halifax, NS B3J 3S8

Dear Mr. Goudey,

Re: Lichen Assessment
Nuttby II, Bear Lake and Loganville Wind Energy Sites

Introduction

Strum Consulting was retained by Nova Scotia Power Inc. (NSPI) to complete a lichen assessment within the study areas of three separate proposed wind energy sites in Nova Scotia: Nuttby II, Loganville, and Bear Lake. Lichen occurrences were initially noted concurrently with wetland and watercourse assessments conducted by Strum in 2021, but this recent program focused on dedicated lichen assessments on each of the Project sites.

The purpose of the lichen assessment was to identify lichen species of conservational interest (SOCl) present within the study areas and record their location. For the purpose of this report, a SOCl is defined as:

- Species listed as 'Endangered', 'Threatened' or 'Special Concern' under the federal *Species at Risk Act* (SARA) or the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).
- Species listed as 'Endangered', 'Threatened' or 'Vulnerable' under the NS *Endangered Species Act* (NS ESA).
- Species with a Subnational Rarity Rank (S-Rank) of 'S1', 'S2', or 'S3' (ACCDC).

Species noted within the Nova Scotia Department Natural Resources [now Nova Scotia Natural Resources and Renewables (NSNRR)] "At-Risk Lichens – Special Management Practices" (2018) (attached) and their respective management practices were considered in the recommendations and methodologies below.

Engineering • Surveying • Environmental

Head Office
Railside, 1355 Bedford Hwy.
Bedford, NS B4A 1C5
t. 902.835.5560 (24/7)
f. 902.835.5574

Antigonish Office
3-A Vincent's Way
Antigonish, NS B2G 2X3
t. 902.863.1465 (24/7)
f. 902.863.1389

Moncton Office
45 Price Street
Moncton, NB E1A 3R1
t. 1.855.770.5560 (24/7)
f. 902.835.5574

St. John's Office
#E120 - 120 Torbay Road
St. John's, NL A1A 2G8
t. 709.738.8478 (24/7)
f. 709.738.8494

Methodology

A detailed desktop review was performed to identify areas within the Study Areas where rare lichens were most likely to occur. Data was collected from both the previous 2021 surveys and site reconnaissance to identify areas where adequate or preferred habitats might be present. Desktop studies of forest height and tree stand types were conducted to identify areas that may meet the habitat requirements of rare lichens.

Mr. Chris Pepper, an expert lichenologist was retained as a sub-consultant to conduct all field surveys, with the help of Strum field staff for logistics surrounding transportation, safety, and access. Lichen surveys were completed between January 1 and November 1, 2022. Throughout the winter months, surveys were only conducted when trees were void of snow and conditions were clear and safe for access and snowshoeing. Spring, summer, and fall surveys were conducted during fair weather conditions (e.g., moderate to low winds, and low to no precipitation).

Watercourses were targeted for the semi-aquatic species *Peltigera hydrothyria* during the late spring after water levels had subsided. Otherwise, surveys were focused on forested areas identified through the desktop review and location scouting. The surveys were conducted by walking transects throughout suitable lichen habitats and while searching microenvironments (e.g., mature trees, shaded tree stumps, etc.) suitable for rare lichen growth. The *Common Lichens of Northeastern North America* (McMullin & Anderson, 2014) field guide was referenced when a specimen was not easily identified given the conditions. All observations of lichens were georeferenced with a handheld GPS, photographed and recorded using ESRI Canada's Survey123 platform.

Results

Table 1 shows the results of the lichen surveys.

Table 1: Lichen Species Identified During Field Surveys

Common Name	Scientific Name	SARA	COSEWIC	NS ESA	S-RANK	Location Coordinates (NAD 83 UTM Zone 20)	Survey Year	Site
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-64.1622°W, 44.8078°N	2022	Bear Lake
Blistered Jellyskin Lichen	<i>Leptogium corticola</i>	Not Listed	Not Listed	Not Listed	S3S4	-64.1676°W, 44.8058°N	2022	Bear Lake
Blistered Jellyskin Lichen	<i>Leptogium corticola</i>	Not Listed	Not Listed	Not Listed	S3S4	-64.2129°W, 44.7772°N	2022	Bear Lake
Blistered Tarpaper Lichen	<i>Collema nigrescens</i>	Not Listed	Not Listed	Not Listed	S3	-64.1756°W, 44.764°N	2022	Bear Lake
Blistered Tarpaper Lichen	<i>Collema nigrescens</i>	Not Listed	Not Listed	Not Listed	S3	-64.1784°W, 44.7598°N	2022	Bear Lake
Blistered Tarpaper Lichen	<i>Collema nigrescens</i>	Not Listed	Not Listed	Not Listed	S3	-64.2183°W, 44.8131°N	2022	Bear Lake
Blue Felt Lichen	<i>Degelia plumbea</i>	Special Concern	Special Concern	Vulnerable	S3	[REDACTED]	2022	Bear Lake

Common Name	Scientific Name	SARA	COSEWIC	NS ESA	S-RANK	Location Coordinates (NAD 83 UTM Zone 20)	Survey Year	Site
Blue Felt Lichen	<i>Degelia plumbea</i>	Special Concern	Special Concern	Vulnerable	S3	[REDACTED]	2022	Bear Lake
Brown-eyed Shingle Lichen	<i>Pannaria rubiginosa</i>	Not Listed	Not Listed	Not Listed	S4	-64.1691°W, 44.8333°N	2022	Bear Lake
Brown-eyed Shingle Lichen	<i>Pannaria rubiginosa</i>	Not Listed	Not Listed	Not Listed	S4	-64.2163°W, 44.8052°N	2022	Bear Lake
Brown-eyed Shingle Lichen	<i>Pannaria rubiginosa</i>	Not Listed	Not Listed	Not Listed	S4	-64.2194°W, 44.8114°N	2022	Bear Lake
Crumpled Bat's Wing Lichen	<i>Collema leptaleum</i>	Not Listed	Not Listed	Not Listed	S2S3	-64.2183°W, 44.8131°N	2022	Bear Lake
Crumpled Bat's Wing Lichen	<i>Collema leptaleum</i>	Not Listed	Not Listed	Not Listed	S2S3	-64.1797°W, 44.7618°N	2022	Bear Lake
Crumpled Bat's Wing Lichen	<i>Collema leptaleum</i>	Not Listed	Not Listed	Not Listed	S2S3	-64.1583°W, 44.8343°N	2022	Bear Lake
Eastern Candlewax Lichen	<i>Ahtiana aurescens</i>	Not Listed	Not Listed	Not Listed	S2S3	-64.1751°W, 44.7587°N	2022	Bear Lake
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Bear Lake
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Bear Lake
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Bear Lake
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Bear Lake
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Bear Lake
Short-bearded Jellyskin Lichen	<i>Leptogium laceroides</i>	Not Listed	Not Listed	Not Listed	S4	-64.211°W, 44.8054°N	2022	Bear Lake
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.0154°W, 45.5526°N	2022	Loganville
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.0726°W, 45.6015°N	2022	Loganville
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.0787°W, 45.6052°N	2022	Loganville
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Loganville

Common Name	Scientific Name	SARA	COSEWIC	NS ESA	S-RANK	Location Coordinates (NAD 83 UTM Zone 20)	Survey Year	Site
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2	[REDACTED]	2022	Loganville
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.07906°W, 45.5967°N	2022	Loganville
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.1067°W, 45.6274°N	2022	Loganville
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Loganville
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Loganville
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2604°W, 45.5499°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2588°W, 45.5488°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2569°W, 45.5498°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.256°W, 45.5489°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2487°W, 45.5386°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2744°W, 45.5359°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2744°W, 45.5338°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2777°W, 45.5519°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2619°W, 45.5579°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.26155°W, 45.556°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2617°W, 45.5543°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2651°W, 45.5535°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2682°W, 45.5498°N	2022	Nuttby

Common Name	Scientific Name	SARA	COSEWIC	NS ESA	S-RANK	Location Coordinates (NAD 83 UTM Zone 20)	Survey Year	Site
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2691°W, 45.5487°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2705°W, 45.5499°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2705°W, 45.5499°N	2022	Nuttby
Acadian Jellyskin Lichen	<i>Leptogium acadiense</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2885°W, 45.5043°N	2022	Nuttby
Blue Felt Lichen	<i>Degelia plumbea</i>	Special Concern	Special Concern	Vulnerable	S3		2022	Nuttby
Blue Felt Lichen	<i>Degelia plumbea</i>	Special Concern	Special Concern	Vulnerable	S3		2022	Nuttby
Brown-eyed Shingle Lichen	<i>Pannaria rubiginosa</i>	Not Listed	Not Listed	Not Listed	S4	-63.2749°W, 45.5582°N	2022	Nuttby
Eastern Waterfan	<i>Peltigera hydrothyria</i>	Not Listed	Threatened	Threatened	S1		2022	Nuttby
Eastern Waterfan	<i>Peltigera hydrothyria</i>	Not Listed	Threatened	Threatened	S1		2022	Nuttby
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2		2022	Nuttby
Frosted Glass-whiskers	<i>Sclerophora peronella</i>	Special Concern	Special Concern	Not Listed	S1S2		2022	Nuttby
Powdered Fringe Lichen	<i>Heterodermia speciosa</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.277°W, 45.5477°N	2022	Nuttby
Powdered Fringe Lichen	<i>Heterodermia speciosa</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2655°W, 45.5556°N	2022	Nuttby
Powdery Kidney Lichen	<i>Nephroma parile</i>	Not Listed	Not Listed	Not Listed	S4	-63.2606°W, 45.5495°N	2022	Nuttby
Powdery Kidney Lichen	<i>Nephroma parile</i>	Not Listed	Not Listed	Not Listed	S4	-63.2479°W, 45.539°N	2022	Nuttby
Scaly Fringe Lichen	<i>Heterodermia squamulosa</i>	Not Listed	Not Listed	Not Listed	S3	-63.2649°W, 45.558°N	2022	Nuttby
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2779°W, 45.5494°N	2022	Nuttby
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.289°W, 45.5022°N	2022	Nuttby
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2888°W, 45.5031°N	2022	Nuttby
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2871°W, 45.5044°N	2022	Nuttby

Common Name	Scientific Name	SARA	COSEWIC	NS ESA	S-RANK	Location Coordinates (NAD 83 UTM Zone 20)	Survey Year	Site
Shaggy Fringed Lichen	<i>Anaptychia palmulata</i>	Not Listed	Not Listed	Not Listed	S3S4	-63.2864°W, 45.5035°N	2022	Nuttby
Short-bearded Jellyskin Lichen	<i>Leptogium laceroides</i>	Not Listed	Not Listed	Not Listed	S4	-63.288°W, 45.4972°N	2022	Nuttby
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Nuttby
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Nuttby
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Nuttby
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Nuttby
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Not Listed	Threatened	Threatened	S1S2	[REDACTED]	2022	Nuttby

A total of 11 species of conservational interest were observed during the 2022 field program, with a total of 62 recorded observations (Drawings 1-3, attached). Additionally, three non SOCI lichen species (eight total observations) were recorded as of particular interest during field studies, and are listed in Table 1. The species identified were located throughout the Study Areas, with many located closer to intact areas of forest and along wetland margins and in riparian zones near watercourses. *Peltigera hydrothyria* was also encountered in watercourses at Nuttby II, as it is an aquatic species.

The most commonly observed species was Acadian Jellyskin Lichen (*Leptogium acadense*) with 21 observations across all three sites. The majority of species observed are not listed through SARA, COSEWIC, or NS ESA. However, four species are listed as either vulnerable, special concern, or threatened [Blue Felt Lichen (*Degelia plumbea*), Frosted Glass-whiskers (*Sclerophora peronella*), Wrinkled Shingle Lichen (*Pannaria lurida*) and Eastern Waterfan (*Peltigera hydrothyria*)]. The rarest species observed during the surveys was Eastern Waterfan, which is listed as threatened under COSEWIC and NS ESA. It is also a “Table 1 species” in the SMP for At-risk Lichens. The other three species listed above as noted in SARA, COSEWIC, and/or the NS ESA are listed as “Table 2 species” within the SMP.

The locations of the lichen SOCI are shown on Drawings 1-3 (attached), along with relevant management buffers (if applicable) recommended by NSNRR’s SMP for at-risk lichens.

Geodatabase Description

The results of the 2022 rare lichen surveys have been compiled into an ESRI geodatabase file titled ‘221110 NSPI_Lichen_Report.gdb’. The geodatabase file includes the species name, date of collection, location, and any unique field notes taken during the survey. An electronic data glossary is included with this report that corresponds with the geodatabase’s contents and attributes.

Conclusions and Recommendations

The rare lichen surveys completed throughout the Nuttby II, Bear Lake, and Loganville Study areas in 2022 identified numerous species of conservational interest. It is recommended that avoidance and, if applicable, buffered management zones applicable for each lichen species described in NSNRR's SMP for at-risk lichens are incorporated into design and planning of any activities associated with the construction and or operations of the wind power projects. For those rare species not listed in the SMP, avoidance with similar buffers and strategic management should be applied. If avoidance is not feasible, we recommend NSNRR be consulted to determine an appropriate course of action.

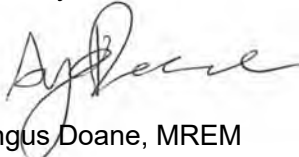
Closure

This report was prepared by Angus Doane, MREM, Environmental Scientist and reviewed by Scott Dickey, MREM, Manager, Environmental Sciences. Should additional information become available, Strum requests that this information be brought to our attention immediately so that we can re-assess the conclusions presented in this report.

This Report and any use of the Report is subject to the terms herein (see attached Statement of Qualifications and Limitations).

If you have any questions, please contact us.

Thank you,



Angus Doane, MREM
Environmental Scientist
adoane@strum.com



Scott Dickey, MREM
Manager, Environmental Sciences
sdickey@strum.com

Statement of Qualifications and Limitations

This Report (the "Report") has been prepared by Strum Consulting ("Consultant") for the benefit of Nova Scotia Power Inc. ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations, and conclusions contained in the Report (collectively, the "Information"):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the "Limitations")
- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation of similar reports
- may be based on information provided to Consultant which has not been independently verified
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued
- must be read as a whole and sections thereof should not be read out of such context
- was prepared for the specific purposes described in the Report and the Agreement
- in the case of subsurface, environmental, or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time

Consultant shall be entitled to rely upon the accuracy and completeness of information that was provided and has no obligation to update such information. Consultant accepts no responsibility for any events or circumstances that may have occurred since the date on which the Report was prepared and, in the case of subsurface, environmental, or geotechnical conditions, is not responsible for any variability in such conditions, geographically or over time.

Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

The Report is to be treated as confidential and may not be used or relied upon by third parties, except:

- as agreed in writing by Consultant and Client
- as required by law
- for use by governmental reviewing agencies

Consultant accepts no responsibility, and denies any liability whatsoever, to parties other than Client who may obtain access to the Report or the Information for any injury, loss, or damage suffered by such parties arising from their use of, reliance upon, or decisions or actions based on the Report or any of the Information ("improper use of the Report"), except to the extent those parties have obtained the prior written consent of Consultant to use and rely upon the Report and the Information. Any

damages arising from improper use of the Report or parts thereof shall be borne by the party making such use.

At-Risk Lichens–Special Management Practices

May 23, 2018

1) Purpose

Many types of lichen have adapted to live in specific – often harsh – environments. These lichens are habitat specialists – they exist and thrive in a unique set of environmental conditions, but are intolerant of change or physical disturbance. For forest dwelling lichens, air quality and moisture regulation are key concerns. Many of the rare species of lichens in Nova Scotia require stable moist conditions, combined with air quality that is relatively free of contaminants. Consequently, any land use activity that significantly alters the microclimate surrounding a forest lichen can pose a threat to that lichen’s long term survival.

The purpose of this Special Management Practice (SMP) is to maintain the health of existing At-Risk lichen occurrences and promote the recovery of these species while enabling compatible land uses. This document provides procedures to be followed on Crown lands. In some instances, and locations, it may be necessary for staff of provincial agencies to modify recommendations presented here to respond to site specific conditions to effectively protect habitat for these species or to accommodate for necessary land uses.

The Nova Scotia Department of Natural Resources (NSDNR) is responsible, under the Nova Scotia Endangered Species Act (NSESA) (1998, c.11, s.1), for the protection, designation and other relevant aspects of the conservation of species at risk in the Province, including habitat protection. Land use activities on crown and private lands have the potential to damage and destroy lichen populations and their habitat.

To ensure the protection of species at risk, the NSESA contains prohibitions that make it an offence to kill, harm, harass, capture, take, possess, collect, buy, sell or trade an individual of a species listed as endangered, threatened or extirpated. The NSESA also makes it an offence to damage or destroy the residence of one or more individuals of a species listed as endangered or threatened.

2) Objectives

The main objectives of these special management practices are to conserve occurrences of At-Risk lichens and to provide the quality and quantity of habitat at levels that enable the populations to be self-sustaining over the long term. This is to be accomplished through a combination of protected and restricted activity zones around lichen occurrences. A secondary goal of these directives and guidance is to assist land users to identify planning issues prior to development and to present feasible solutions to avoid negative effects on lichens and their habitat. Careful observation of the directives and guidance will enable users to avoid unnecessary delays and costly mitigations or prosecution under the N.S. Endangered Species Act.

3) **Application**

a) These procedures apply to the following species:

- i) Boreal Felt Lichen: This species was provincially listed as Endangered in 2003 and Special Management Practices were put in place. This procedure updates and replaces the previous SMP in response to specific recommendations and newer information about its survival.
- ii) Very rare, and highly sensitive lichens (Table 1): These species merit protection based on their At-Risk status and higher degree of rarity in the province, combined with their high sensitivity to environmental disturbance.
- iii) Rare and sensitive lichens (Table 2): These species are assessed to be either At-Risk in Nova Scotia, and presumed rare and/or sensitive to disturbance, but not to the same degree as Table 1 species. This is a mixed species group with different sensitivities. Three species in this table are cyanolichens, the morphology of which suggests less sensitivity than Table 1 species, but there is data to show population declines and some photobiont sensitivity to desiccation stress.

b) These procedures apply to the following activities

Natural resource development, exploration and harvesting including but not limited to:

- i) Forestry resource development/ harvesting;
- ii) Mineral resource exploration/ development;
- iii) Activities authorized under the Crown Lands Act that may disturb lichen habitat.

4) **Directives**

a) Advanced surveying of potential habitat

- i) Land use activities on Crown land subject to departmental review shall demonstrate adherence with this procedure. Other activities, such as those subject to Environmental Assessment, may utilize this procedure or receive approval for project-specific avoidance and mitigation procedures.
- ii) A predictive habitat model for Boreal felt lichen was developed by Cameron and Neily (2008) that identifies areas in Nova Scotia of potential BFL habitat. A copy of this polygon data layer, as well as any updates, is available from the Nova Scotia Department of Natural Resources, Wildlife Division.
- iii) If the potential area of influence of a proposed activity, comprised of the actual working footprint plus a buffer of 100 metres (the 'buffered disturbance footprint') overlaps any portion of the modelled BFL habitat, a survey for Boreal felt lichen must be completed prior

to the start of any physical work at the site. Occurrences of other lichens listed herein shall be recorded in these surveys if found.

- (1) The modelled habitat layer serves as a guide – not a true predictor – of where BFL may occur. In fact, less than 20% of the known occurrences of BFL are located within the modelled habitat.

b) Survey requirements:

- i) Accepted surveyor: surveyors must have the demonstrated qualifications and experience acceptable to the Director of Wildlife, NSDNR (or designate) in order to perform this function.
- ii) Scope of area required to be considered for possible ground surveying/ scope of area actually surveyed.
 - (1) At a minimum, the complete extent of the buffered disturbance footprint (i.e. the outer perimeter contained by the harvest block plus associated new roads and new trails (outside the harvest area), and then extending outwards by 100 metres) is to be assessed (desktop review and/or site visit) and considered for detailed ground surveys.
 - (2) Based on desktop review and/or a site visit, the licensee or project proponent, in consultation with surveyors, will determine the scope of a ground verification so that it meets the objectives set forth by DNR.
- iii) Information to be provided by project proponent to surveyor:
 - (1) The entire proposed disturbance footprint (e.g. harvest block, associated supporting roads, and hauling trails outside the harvest area) including BFL modelled habitat and area(s) of intersect.
 - (2) To facilitate long term planning, the location and extent of other activities by the same proponent, if known, within one km of target site that are known or anticipated within the next three years.
- iv) Information recorded by surveyor
 - (1) Full extent of area assessed, comprised of areas (GIS-ready polygons):
 - (a) remotely reviewed on desktop, but deemed not suitable (rationale provided) for lichens;
 - (b) deemed not suitable for lichens as determined by site visit (rationale provided); and
 - (c) deemed potentially suitable and ground surveyed.
 - (2) GPS track (.gpx format file) of ground survey route, annotated with survey date(s), observer(s).

- (3) Point locations of BFL and other lichen species (specified herein) occurrences: coordinates (UTM 20, NAD83), host tree species, number of thalli, surrounding habitat (not location) descriptors.
 - (4) If observed, other notable conservation values (e.g. raptor nests, rare species occurrences, unmapped wetlands).
- v) Information reporting by surveyors to the project proponent and NSDNR Wildlife Division will include:
- (1) Digital copies of all information gathered.
 - (2) All new rare species (i.e. lichens, plants, birds, etc.) discoveries, if observed, to be reported within 48 hours of survey completion.

The destination and type of information reported by lichen surveyors shall be specified by DNR.

c) **Conservation of known habitat - Boreal Felt Lichen**

A 500 metre Special Management Zone (SMZ) shall be established around all occurrences* of Boreal Felt Lichen (BFL). Within this 500 metre radius SMZ, there are two sub-zones: a Protected zone and a Restricted zone (Figure 1).

*Occurrences within the scope of this procedure include thalli that are currently present or, if no longer present, had been documented in surveys from 2004 to present.

- i) Protected zone- The area included within the 200 metre radius of an occurrence of BFL is managed for minimal disturbance as follows:
 - (1) Forest harvest (including silvicultural treatments): There is to be no active clearing, removal or disturbance of trees, soil or wetlands.
 - (2) Mineral Exploration: Mineral exploration drill sites may not be situated within the 200 metre Protected Zone. The removal of soil, rock or mineral samples for the purposes of mineral exploration is not subject to this procedure provided sample collection does not require or involve the removal of trees or alter the vegetated canopy, microclimate or hydrology within the 200 metre Protected Zone. Individual soil, rock or mineral samples collected for the purposes of mineral exploration within this zone should not be greater than 2 kilograms (per sample) and may only be collected using non-mechanical methods. Mineral exploration drill sites, trenching and test pitting may be permitted in exceptional situations and will require an approval under DNR's Variance process.
 - (3) Road construction: No construction of new roads or trails. New road construction in Protected zone may be permitted in exceptional situations and will require an approval under DNR's Variance process.
 - (4) Existing roads: If essential for access, any existing road can only be maintained to the standard of the original road. This refers to maintenance or upgrades that may affect

local microclimate or air quality. This does not refer to maintenance or upgrades (i.e. culvert replacement) that have no such effects.

- ii) Restricted Zone -The area included between the 200 metre and 500 metre radius of an occurrence of BFL is managed for activity as follows:
- (1) Partial harvesting will be favoured by using the 'Restoration' pathway in DNR's Forest Management Guides (FMG).
 - (2) Licensees will use the DNR Pre-treatment Assessment procedures and FMG to determine harvest methods and apply partial harvesting methods, including the "Restoration Shelterwood" treatment option, in the FMG when appropriate. This will increase the probability of a partial harvest prescription while still maintaining appropriate forest management techniques.
 - (3) Within the Restricted zone, for the area where the FMG has determined that Clearcutting (overstory removal or seed tree harvests) is the appropriate prescription:
 - (a) Areas of clearcut shall not exceed 10 ha and the distance between clearcuts shall not be less than 100 metres. These restrictions also apply to the second entry of shelterwood harvests if the harvest method is 'Overstory removal' and the regeneration is less than 3 metres tall.
 - (4) In areas that are clearcut, all wetlands, including forested wetlands, and portions thereof occurring within the 500 metre radius SMZ will be buffered by a minimum 20 metre no-disturbance buffer.
 - (5) Only < 30% of the total area of the Restricted zone, excluding open wetlands and including non-crown holdings, can be in a state of regenerating development (i.e. tree height < 3 m; the estimated time after harvest for tree height to attain > 3 metres height is 20 years).
 - (a) When calculating total area for determining the allowable percentage in regeneration: forested wetlands and anthropogenic openings (i.e. agriculture, pits, landings, residential clearings, etc.) will be included in the total area. Open wetlands and other natural openings will be excluded.
 - (b) Unavoidable exceedances of the 30% requirement may be considered for approval under the Variance process.
 - (6) Existing and new roads and trails (greater than six metres in width) outside the harvest area are counted as area within the regenerating age class.
 - (7) All existing roads shall only be maintained to the standard of the original road. New road construction may be permitted within the Restricted zone only after all other practical options have been eliminated. Permission to construct new roads in a Restricted zone will require approval under DNR's Variance process.
 - (8) Mineral exploration is permitted within the Restricted zone. If the exploration occurs in wooded areas where tree height is more than 3 metres and the footprint of the access trail and exploration site are less than 6 metres in width, the footprint will not contribute to the total area in the Restricted zone less than 3 metre in height.

d) **Table 1 Species**

Lichens specified in Table 1 shall be provided with the Protected Zone (200 metre) as described in 4)c)i). A Restricted Zone is not required.

e) **Table 2 Species**

The area included within a 100 metre radius of an occurrence of a Table 2 species is managed for minimal disturbance as follows:

- i) Forest harvest (including silvicultural treatments): There is to be no active clearing, removal or disturbance of trees, soil or wetlands.
- ii) Mineral Exploration: Mineral exploration drill sites may not be situated within the 100 metre zone. The removal of soil, rock or mineral samples for the purposes of mineral exploration is not subject to this procedure provided sample collection does not require or involve the removal of trees, alter the vegetated canopy, microclimate or hydrology within the 100 metre zone. Individual soil, rock or mineral samples collected for the purposes of mineral exploration within this zone should not be greater than 2 kilograms (per sample) and may only be collected using non-mechanical methods.
- iii) Road construction: No construction of new roads or trails. New road construction within the 100 metre zone may be permitted in exceptional situations and will require an approval under DNR's Variance process.
- iv) Existing roads: Upgrades and maintenance may be permitted, subject to IRM review, and with conditions to minimize disturbance.

f) **Management of BFL-related databases-** The following databases will be maintained and updated as part of the implementation of this practice:

- i) Updated lichen occurrence database (including locations where thalli no longer occur)
- ii) Updated survey track database

g) **Auditing and Monitoring:**

- i) The NS Department of Natural Resources and/or its appointed agents will conduct site inspections on Crown lands of lichen occurrences to monitor:
 - (1) Compliance with the SMP by licensees.
 - (2) The effectiveness of these management practices. The intensity and assignment of this monitoring will be determined during the annual DNR Work Planning process.
- ii) DNR Regional staff will have the primary responsibility for ensuring that proponents are complying with the SMP during all phases— planning and active work -- of their project. As well, regional DNR staff or auditing designates (qualified individuals who are approved by Director, Wildlife or designate) will complete post-completion audits of work sites to verify that project -related activities conducted within the SMZ have complied with the directives of the SMP.

iii) Monitoring reporting

Long-term monitoring of lichen health at all SMZs is required to track the effectiveness of the SMP’s directives. All monitoring of BFL health within an SMZ will be conducted or overseen by qualified lichenologists, selected by the DNR Director of Wildlife (or designate).

Table 1 Very rare, and highly sensitive lichens

Common name	Scientific name	NSESA status	SARA status	COSEWIC review status	S-Rank */ Other notes
Vole Ears	<i>Erioderma mollissimum</i>	Endangered (2013)	Endangered	Endangered (2009)	S1S2; Sensitive to microclimatic changes; <i>Merits highest protection</i>
Hibernia Jellyskin Lichen	<i>Leptogium hibernicum</i>	Not listed	Not listed	Low priority	S1; Only recently discovered in North America; Status highly uncertain; Only 5 known occurrences in NS;
Powdered Moon Lichen (eastern population)	<i>Sticta limbata</i>	Not listed	Not listed	High priority	S1S2; Leafy lichen that is highly sensitive to air pollution and acid precipitation; Currently 7 known occurrences in NS;
Eastern Waterfan	<i>Peltigera hydrothyria</i>	Threatened (2017)	Not listed	Threatened (2013)	S1; Endemic to eastern NA. Inhabits streams ; as of COSEWIC report only 10 occurrences in Canada with 6 of those in NS. Very sensitive to changes in water chemistry, water level changes and siltation. Changes in hydrology, channeling water through stream crossings, increased run off from harvesting could affect this highly sensitive species.

* Refer to Table 3 for descriptions

Table 2 Rare and sensitive lichens

Common name	Scientific name	NSESA status	SARA status	COSEWIC review status	S-Rank */ Other notes
Wrinkled Shingle Lichen	<i>Pannaria lurida</i>	Threatened (2017)	Not listed	Threatened (2016)	S1S2; Known from 56 occurrences in Canada of which 49 in NS. Rate of decline 32% since 1986. A primary threat is harvesting of hardwood forest.
Frosted Glass-whiskers (NS pop'n)	<i>Sclerophora peronella</i>	Not listed	Special Concern	Special Concern (2014)	S1S2; Tiny stubble lichen that is difficult to locate; Restricted to mature or old-growth hardwood forest; Is very habitat specific, associated with very old forest. Habitat conditions for its occurrence are very rare on the landscape. Like other stubble lichens , it likely takes a long time to develop and

					once disturbed will take a very long time to re-establish.
Black-foam Lichen	<i>Anzia colpodes</i>	Threatened (2017)	Not listed	Threatened (2015)	S3; Known from ON, PQ, NB and NS; NS population appears to be only remaining occurrences; Lichen is widespread, but uncommon; Deforestation is main threat. Declining in northeast US, research indicates it may be associated with old growth forest
Blue Felt Lichen	<i>Degelia plumbea</i>	Vulnerable (2013)	Special Concern	Special Concern (2010)	S3; In Canada only occurs in Atlantic region; NS population is largest in NA.; Requires forest continuity and high humidity; Sensitive to air pollution and acid rain.
Poor-man's Shingles Lichen	<i>Parmeliella parvula</i>	Not listed	Not listed	Mid priority	S1S2; Closely associated with BFL; Evidence to show declining amount of available habitat; Small and inconspicuous lichen; knowledge lacking; Part of amphi-Atlantic, boreal rain forest group which include BFL. In NS has an Atlantic coastal distribution.

* Refer to Table 3 for descriptions

Table 3-State or sub-regional IUCN ranking (S-ranking) definitions.

Status	Definition
S1	Critically Imperiled —Critically imperiled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.
S2	Imperiled —Imperiled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province.
S3	Vulnerable —Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4	Apparently Secure —Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S5	Secure —Common, widespread, and abundant in the nation or state/province.

Approval:

Original signed by

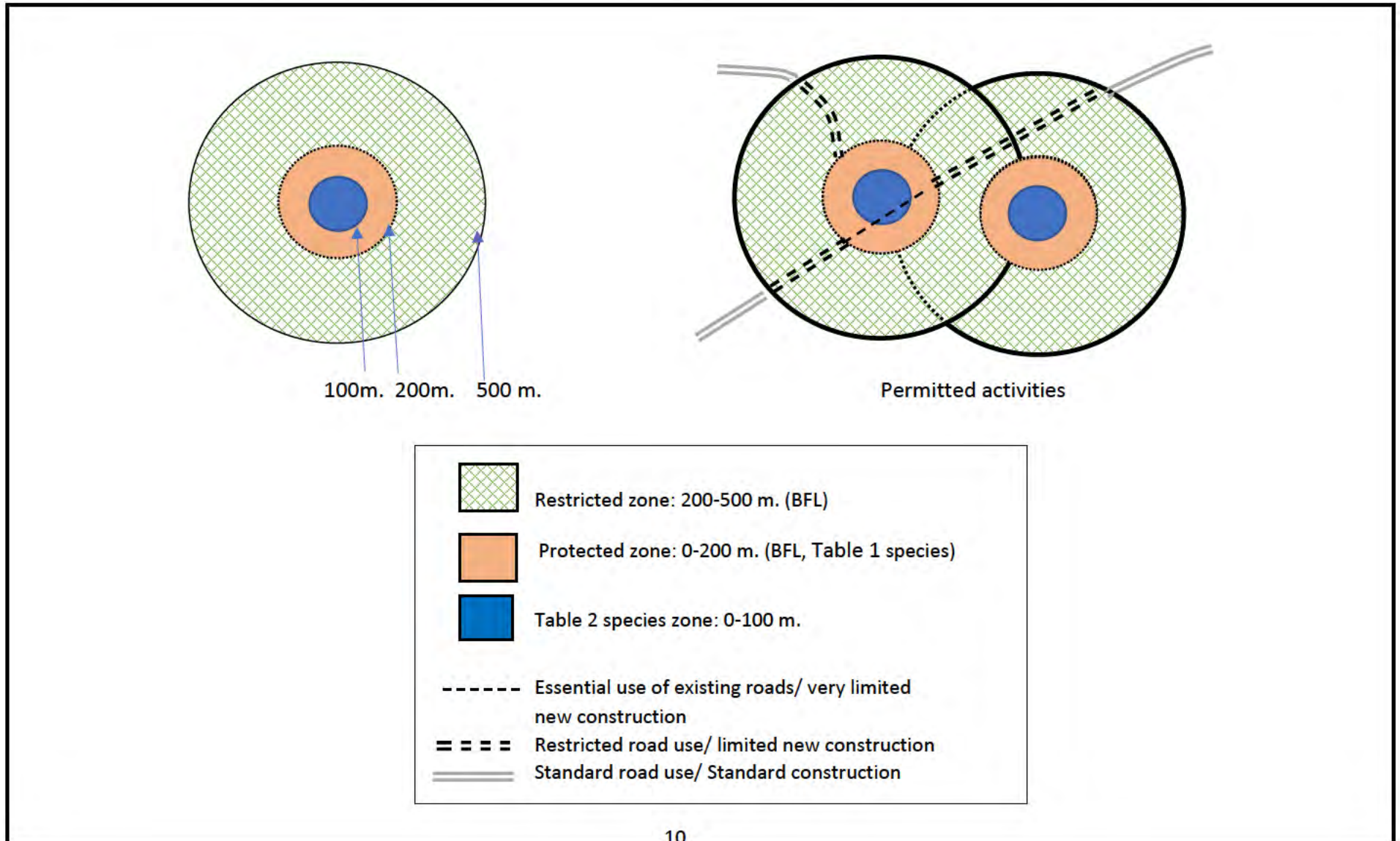
Jon Porter

Executive Director, Renewable Resources

May 23, 2018

Date

Figure 1- Special Management Zones: Activities permitted in three sub-zones



Drawings provided directly to regulators for review to maintain confidentiality of locations of species at risk.

APPENDIX L
STANTEC BAT MONITORING PROGRAM



Bat Monitoring Program for
Proposed Wind Project near Bear
Lake, Nova Scotia

Final Report

March 14, 2023

Prepared for:

Nova Scotia Power Inc.
1223 Lower Water St
Halifax, NS B3J 3S8

Prepared by:

Stantec Consulting Ltd.
40 Highfield Park, Suite 102
Dartmouth, NS B3A 0A3

File: 121417191

BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

This document titled Bat Monitoring Program for Proposed Wind Project near Bear Lake, Nova Scotia was prepared by Stantec Consulting Ltd. ("Stantec") for the account of Nova Scotia Power Inc. (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.



Table of Contents

1.0	INTRODUCTION	1
1.1	PROJECT BACKGROUND	1
1.2	PROJECT AREA DESCRIPTION.....	1
2.0	METHODS	4
2.1	BAT DETECTOR SITE SELECTION	4
2.2	DATA COLLECTION	5
2.2.1	Spring/Summer 2022	6
2.2.2	Fall 2022	6
2.3	DATA ANALYSIS	6
3.0	RESULTS	7
3.1	DETECTOR LOCATIONS	7
3.2	SPECIES.....	9
3.3	SPRING/SUMMER RESULTS.....	9
3.4	FALL RESULTS	10
4.0	DISCUSSION	12
5.0	RECOMMENDATIONS	13
6.0	CLOSURE	13
8.0	REFERENCES	14

LIST OF TABLES

Table 2.1	Mini Bat Acoustic Detector Settings	5
Table 3.1	Location of Bat Detectors.....	7
Table 3.2	Results of Spring Bat Surveys.....	10
Table 3.3	Results of Fall Bat Surveys	11

LIST OF FIGURES

Figure 1	Bat Maternal Roost Habitat Assessment: Bear Lake.....	3
Figure 2	Bat Survey Locations: Bear Lake	8

LIST OF APPENDICES

Appendix A	Maternity Roost Habitat Assessment Data Sheet
Appendix B	Habitat Data
Appendix C	Bat Records



BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

1.0 INTRODUCTION

1.1 PROJECT BACKGROUND

Nova Scotia Power Incorporated (NSPI) is the Proponent for the proposed Bear Lake Wind Project near Upper Vaughan, Nova Scotia (the Project). The Project consists of the construction and operation of approximately 14 to 19 wind turbines, in the range of 4.5 to 6 MW, for a total project capacity of up to 89 MW.

In 2021, Stantec Consulting Ltd. (Stantec) conducted fall acoustic bat surveys for the Project. The purpose of this study was to determine which bat species occur in the within the Project Boundary and Assessment Area during the fall bat migration period. During this survey, two species of bats were recorded: little brown myotis (*Myotis lucifugus*), and tri-colored bat (*Perimyotis subflavus*). Between September 17 and October 20, 2021, 43 records of little brown myotis occurred at three detectors. Tri-colored bats were only recorded once during this period.

In 2022, Stantec was requested by NSPI to undertake spring/summer and fall bat acoustic surveys. This report provides the methods and results of these surveys.

Three species of bats regularly breed in Nova Scotia: little brown myotis, northern myotis (*Myotis septentrionalis*), and tri-colored bat. All three species are listed as Endangered under Schedule 1 of the federal *Species at Risk Act* (SARA), and under the Nova Scotia *Endangered Species Act* (NSES). After emerging from hibernation in the spring, female bats of these species will form maternity colonies, where they give birth to and raise their pups. Maternity roosts are an important habitat component that should be investigated during the wind project pre-construction surveys. Maternity roosts for these species typically occur in older forest stands that have snags and other trees in various stages of decay, as well as suitable foraging habitat (Environment Canada 2015). Tri-colored bats in Nova Scotia form maternity colonies in *Usnea trichodea* lichens, which typically grow on conifer trees (Poissant et al. 2010).

Four other species of bats occur irregularly in Nova Scotia, including hoary bat (*Lasiurus cinereus*), eastern red bat (*Lasiurus borealis*), silver-haired bat (*Lasionycteris noctivagans*), and big brown bat (*Eptesicus fuscus*) (Broders 2004). The first three of these irregularly occurring species are migratory tree-roosting bats, which are typically the most susceptible to strikes at wind farms (Arnett et al. 2008; Lausen et al. 2010).

1.2 PROJECT AREA DESCRIPTION

The Project Boundary shown on Figure 1 (in red) refers to the area within which the turbines will be located. A wider Assessment Area (Figure 1; in black) indicates the area within which additional surveys were conducted. In some cases, survey locations are outside the Project Boundary and Assessment Areas where earlier study area boundaries were used.



BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

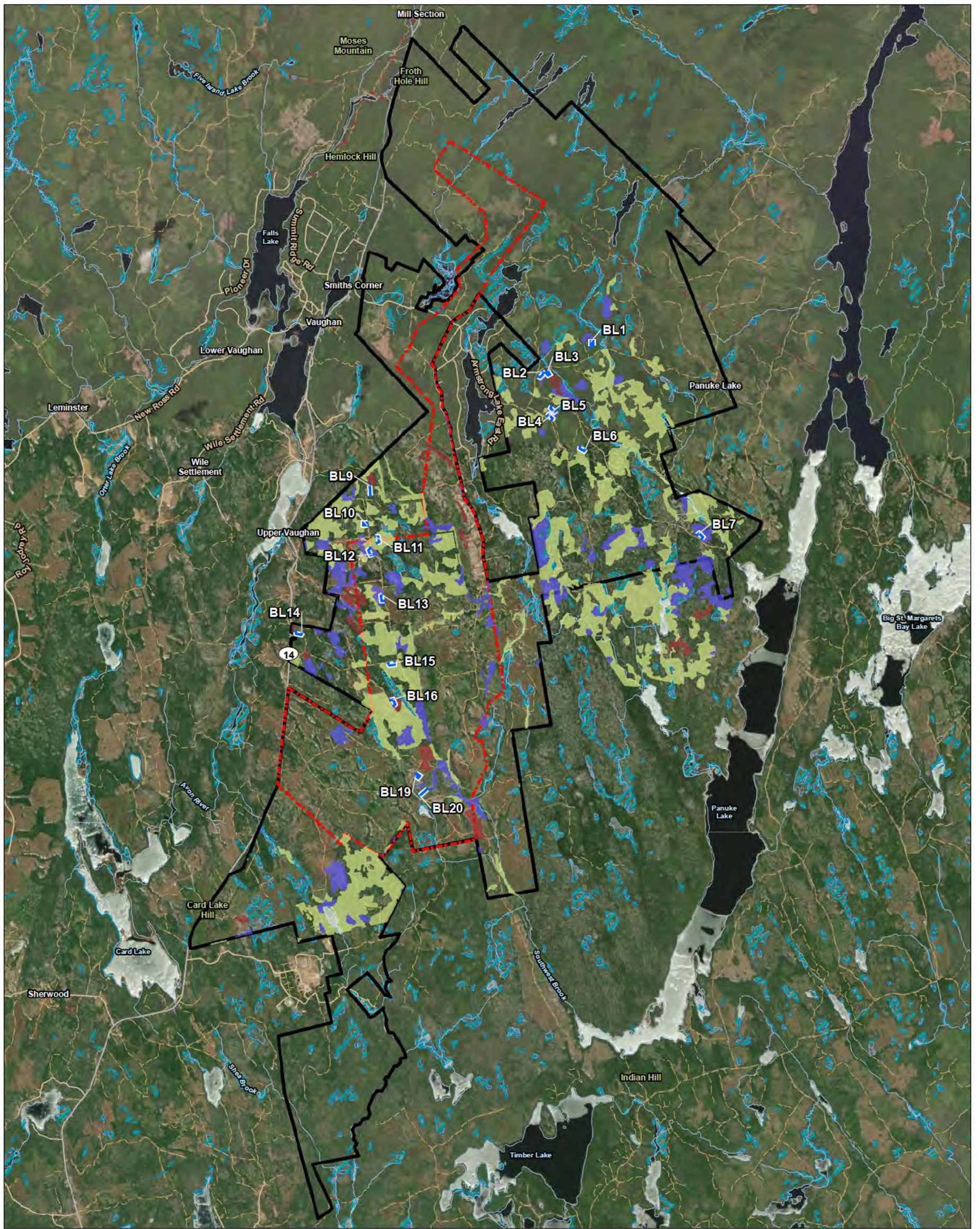
The Project is situated in the Western Ecoregion of Nova Scotia. Most of the Assessment Area and Project Boundary lie within the South Mountain Ecodistrict, with southern parts of the Project Boundary within the LaHave Drumlins Ecodistrict. The southern portion of the Assessment Area overlaps the St. Margaret's Bay Ecodistrict.

The Western Ecoregion is characterized by a milder climate than the rest of Nova Scotia, in part due to prevailing westerly winds which direct warmer temperatures inland from the Gulf of Maine. Overall, the region has early springs, warm summers, and milder winters. Most of the Project Boundary is within the South Mountain Ecodistrict within the Western Ecoregion. This Ecodistrict is characterized as a rugged upland of pine and spruce dominated forests with abundant lakes, rivers, and wetlands. The forests have been strongly influenced by several factors including a long history of forest harvesting and wildfires. Eastern white pine (*Pinus strobus*) is a typical component of most stands along with northern red oak (*Quercus rubra*; Nova Scotia Department of Natural Resources (NSDNR) 2017). Red spruce (*Picea rubens*), eastern white pine, and eastern hemlock (*Tsuga canadensis*) occupy most slope positions with moderately to well drained soils, and balsam fir (*Abies balsamea*) is often present in all stands at some stage of development.

The LaHave Drumlins Ecodistrict is also dominated by coniferous forest, with tolerant hardwoods on the upper slopes of drumlins and well drained hills. Drumlins or drumlin-like landforms which make up 46% of the Ecodistrict provide conditions for development of a late successional Acadian Forest of red spruce, eastern hemlock, eastern white pine, and yellow birch (*Betula alleghaniensis*). Sugar maple (*Acer saccharum*), northern red oak and American beech (*Fagus grandifolia*) are found in lower lying areas.

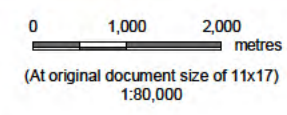
The St. Margaret's Bay Ecodistrict contains soils very similar to those of the South Mountain Ecodistrict, but a cooler climate and higher humidity and soil moisture changes the forest composition. Much of this Ecodistrict is covered with stands of Acadian softwood forests of red spruce with eastern hemlock, eastern white pine, and yellow birch. Shrub layers are composed primarily of advanced regeneration of overstory species such as balsam fir and red maple (NSDNR 2017).





- Project Boundary, February 2023
- Assessment Area, February 2023
- Maternal Roosting Habitat**
- Softwood
- Mixedwood
- Hardwood
- Survey Transect

- Arterial Road
- Local Road
- Resource Road / Trail
- Transmission Line
- Watercourse
- Wetland (NSE)
- Wetland (NHN)
- Waterbody



Project Location: Nutby Mountain, Nova Scotia
 Client/Project: Nova Scotia Power Inc., NSPI Wind EA Support Services
 Prepared on: 2023-03-02
 121417191_024a

Figure No. **1**
 Title **Bat Maternal Roosting Habitat Assessment: Bear Lake**

I:\a0215-pp15a0\work_group\121417191\02_data\gis\mapping\mxd\report\121417191_024a_Bat_Roost_Habitat_BearLake.mxd Revised: 2023-03-02 By: mblackwood

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

2.0 METHODS

2.1 BAT DETECTOR SITE SELECTION

At the time of surveys, the final turbine layout had not been determined. It was therefore not possible to deploy bat detectors at potential turbine locations. Instead, bat detectors were deployed in areas with high quality bat habitat. Two main types of bat habitat were considered: maternity roost habitat and foraging habitat. Foraging often typically occurs at wetlands, waterbodies, watercourses, or other forest clearings or edges. These features are identifiable from provincial GIS datasets and satellite imagery. It is important to note that this analysis was done using a former study area boundary. The current Project Boundary is much smaller and excludes much of the former study area.

Areas with high potential to support maternity colonies have characteristics that are not easily identified from existing GIS data or satellite imagery. A habitat assessment was therefore conducted to identify maternity roost habitat within the Assessment Area. This habitat assessment was conducted in two phases, first through a desktop review, and second by field surveys in the spring of 2022.

As a first step for estimating the presence of suitable bat roosting habitat within the Assessment Area, a desktop analysis was performed using GIS. Forest inventory data from the Nova Scotia Department of Natural Resources and Renewables (NSDNRR 2021) were mapped, and areas with mature and old or mixed-aged forest (including coniferous, deciduous and mixedwood forest) with an average diameter of at least 17 centimetre (cm) diameter at breast height (DBH) (i.e., that contain larger trees that may provide roosting habitat) were identified (Figure 1). The data, received from NSDNRR in 2022, are based on aerial photography from 2004 to 2012. The data were modified based on more recent satellite imagery to remove areas that have been harvested since the data were interpreted. Forest stands that represented potential bat roosting habitat were identified, and a subset of 17 forest stands were chosen for field verification.

Stantec biologists visited each of the 17 selected stands to verify the habitat and assess the potential for maternity roost sites. A 200 metre (m) transect was plotted in GIS at each of the stands (Figure 1). At each site, surveyors walked this transect to determine the presence of potential maternity roost trees and noted their observations on a data sheet (Appendix A) to document the present/relative abundance of snags, trees in decay classes 1-3 (early decay, as per Watt and Caceres 1999), *Usnea trichodea* lichen, and trees with cracks, crevices or/or peeling banks (and distinguished between trees with a DBH of >25 cm or between 10 and 25 cm). Notes were taken on overall site characteristics and dominant tree species. These surveys were conducted prior to leaf out, where it is easiest to look for specific trunk characteristics (e.g., cavities and cracks). Results of the habitat surveys are presented in Appendix B.



BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Based on the results, the sites with the highest potential to support maternity colonies were identified. Sites were deemed as suitable for a bat detector if they met at least one of the following selection rules:

- Two or more of the following were ranked as common or abundant, OR three or more were ranked as uncommon or above, with at least one as common or abundant:
 - presence of snags
 - presence of trees in decay classes 1-3
 - presence of trees with DBH > 25 cm containing cavities/cracks/crevices
 - or presence of trees with DBH > 25 cm containing loose peeling bark
 - *Usnea* presence is common or abundant

Of the 17 sites surveyed, eight met these criteria. The final six bat detector locations were chosen to represent both foraging and maternity roost habitat, to provide adequate site coverage, and to represent habitat types identified. One bat detector was deployed near the radar location, as requested by NSDNRR.

2.2 DATA COLLECTION

Six bat detectors (i.e., Wildlife Acoustic Song Meter Mini Ultrasonic Recorders) were deployed. These devices passively record the ultrasonic echolocation calls of passing bats.

Each detector was programmed to be active from 30 minutes prior to sunset until 30 minutes after sunrise. The detector settings are shown in Table 2.1.

Table 2.1 Mini Bat Acoustic Detector Settings

Mini Bat Acoustic Detector Settings	
Recording format	Full-Spectrum
Sample rate	256 kHz
Minimum trigger frequency	12 KHz
Maximum length	15 seconds
Trigger window	3 seconds
Save noise?	No
Gain	12 dB

The detector settings were chosen based on the species with potential to occur in this area, and on standard settings that are typically used for bat detection in this region.

Acoustic monitoring has known limitations. It is not always possible to identify species based on bat recordings. The calls of some species are so similar that they cannot always be distinguished from each other at a site. In addition, the number of bats present cannot be determined from acoustic monitoring. It cannot be known if all recordings represent individual bats, or if one bat was recorded on multiple occasions.



BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

2.2.1 Spring/Summer 2022

Six bat detectors (Figure 2) were deployed on June 24 and were retrieved on July 20, 2022. Depending on battery life, these detectors recorded between five and 26 nights. Unfortunately, detector BL-5 only recorded for five nights before malfunctioning and did not record for the remainder of the period. This detector was located within the southern portion of the Project Boundary.

2.2.2 Fall 2022

Six bat detectors (Figure 2) were deployed on August 24-25, 2022, in the same locations that were used for the spring/summer monitoring. Batteries and SD cards were replaced once between September 13 and September 23, and again on October 20. Detectors were retrieved on November 2 or November 5, and recorded between 33 and 65 nights, depending on battery life.

2.3 DATA ANALYSIS

The acoustic data were analysed using Wildlife Acoustics' Kaleidoscope Pro software. The data processing through Kaleidoscope Pro involves running the software's automatic identification, which screens out noise files (that were not previously screened out by the detector) and provides a suggested species for each bat call file. In some cases, species cannot reliably be identified based on the quality of the call. These calls are categorized as No ID by the software.

Calls were manually reviewed by a qualified biologist to confirm the identification. Where a call was reviewed and determine to be in the *Myotis* genus, but a species ID was not possible, it was categorized as *Myotis* species. In other instances, if a call was manually reviewed and of a high frequency (>35khz), and thus potentially representative of a species at risk (SAR) bat, it is categorized as 'high-frequency unknown'. The category includes all SAR species (little brown bat, northern myotis, and tri-colored Bat), as well as eastern red bat. Alternatively, low frequency calls (<35khz) that could not be identified to species were categorized as 'low-frequency unknown'. These calls could represent hoary, silver-haired, or big brown bats.



3.0 RESULTS

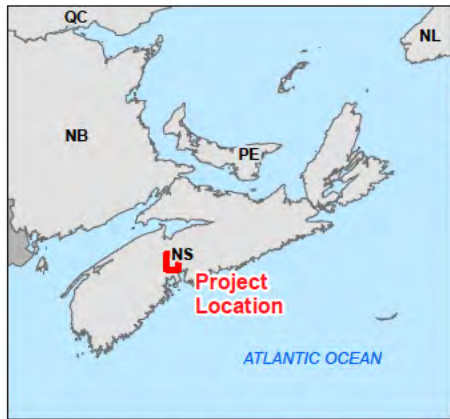
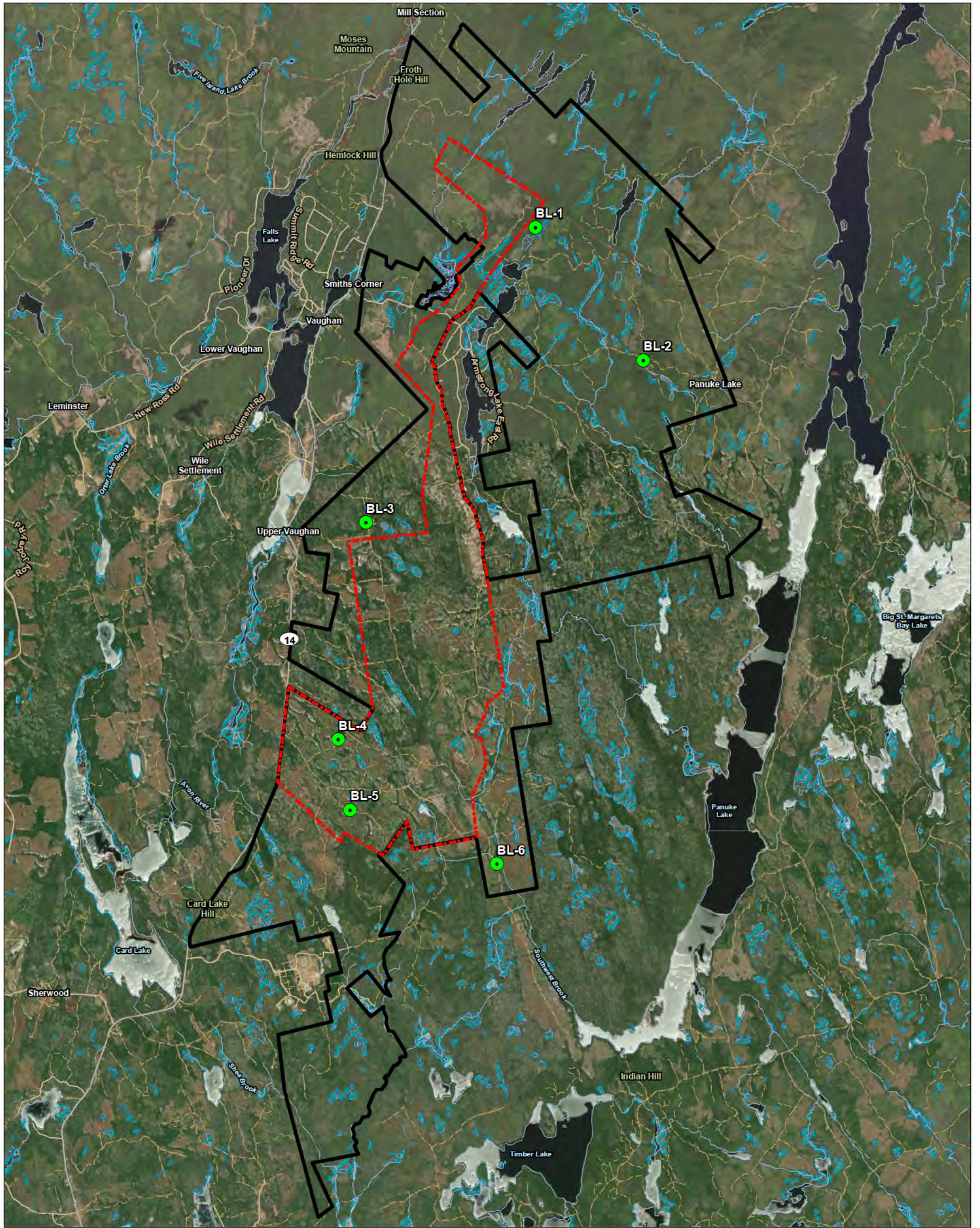
3.1 DETECTOR LOCATIONS

Based on the background habitat review and field habitat surveys described above, six locations were chosen for bat detector deployment. The locations of the detectors are summarized in Table 3.1, and are shown on Figure 2.

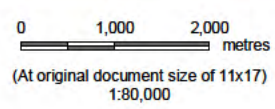
Table 3.1 Location of Bat Detectors

Detector Number	Detector Location	Detector Location Details	Mapped Habitat Type	Surrounding Habitat
BL-1	In Assessment Area	<ul style="list-style-type: none"> In a snag, approximately 1.8 m above ground level Facing a watercourse, 	Swamp	<ul style="list-style-type: none"> In a forested riverine swamp surrounding a watercourse Surrounded by an old mixedwood forest with many snags
BL-2	In Assessment Area	<ul style="list-style-type: none"> In a snag, approximately 1.8 m above ground level Facing a wetland 	Mature softwood/water	<ul style="list-style-type: none"> Along a wetland boundary Habitat is a mix of dead stands and mature softwood forest
BL-3	In Assessment Area	<ul style="list-style-type: none"> In a snag, approximately 1.4 m above ground level 	Mature softwood	<ul style="list-style-type: none"> Mature softwood stand Active logging in this area Lots of <i>Usnea</i> sp. lichen in area
BL-4	In Project Boundary	<ul style="list-style-type: none"> In a spruce tree, approximately 1.3 m above ground level 	Mature mixedwood	<ul style="list-style-type: none"> Mixedwood forest near an old road
BL-5	In Project Boundary	<ul style="list-style-type: none"> In a maple tree, 1.6 m above ground level, just off an old road near the radar site 	Established clearcut	<ul style="list-style-type: none"> Adjacent to old road, surrounded by mixedwood forest
BL-6	In Assessment Area	<ul style="list-style-type: none"> In a maple tree, approximately 1.3 m above ground level at the top of a hill Located in a large open gravel pit 	Mature softwood	<ul style="list-style-type: none"> Mixedwood stand near old gravel pit and old road Old clearcut nearby. Older trees located along road





- Bat Detector Location
- Project Boundary, February 2023
- Assessment Area, February 2023
- Arterial Road
- Local Road
- Resource Road / Trail
- Transmission Line
- Watercourse
- Wetland (NSE)
- Wetland (NHN)
- Waterbody



Project Location: Nutby Mountain, Nova Scotia
 Client/Project: Nova Scotia Power Inc., NSPI Wind EA Support Services
 Prepared on 2023-03-02
 121417191_010a

Figure No. 2
 Title: Bat Survey Locations: Bear Lake

I:\a0215-ppisa0\work_group\121417191\03_data\gis_data\gis_data\mxd\report\121417191_010a_Bat_ARUL_BearLake.mxd Revised: 2023-03-02 By: mblackwood

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

3.2 SPECIES

Two species of bats were recorded: little brown myotis and silver-haired bat. Little brown myotis was the most commonly recorded species. Some bat calls could not be identified to species due to the quality of the call. These calls were categorized as high frequency unknown or low frequency unknown. Where a species could be identified to the *Myotis* genus, but not to a species, the call was identified as *Myotis* sp. Two calls were classified as silver-haired or big brown bat. These two species can have very similar calls, and thus could not be distinguished.

3.3 SPRING/SUMMER RESULTS

Little brown myotis was the only species identified during the spring/summer bat surveys. A total of 26 acoustic files identified as little brown myotis were recorded over the six detectors (Table 3.2). The majority of files (17) were recorded at detector BL-1, which was located in a swamp and adjoined to mixedwood forest (Figure 2). This area is not within the final Project Boundary. These calls were recorded over 17 nights between June 25 and July 20 (Appendix C, Table C.1). An additional nine calls of *Myotis* sp. were recorded at this location, as well as two calls that were classified as high frequency unknown. It is likely that many of these calls were made by little brown myotis. Northern myotis and tri-colored bats are also possible but were not confirmed. Eastern red bat cannot be ruled out from the high frequency unknown calls; however, this species is less likely to occur in Nova Scotia during the breeding season.

The remaining five detectors recorded between one and three little brown myotis call each, and one high frequency unknown call was recorded at BL-6, for a total of 38 recorded files identified as bats.

Bat detector BL-5 malfunctioned, and only recorded for five nights. This detector was recorded inside the Project Boundary. Should the monitoring period have been longer, more bats may have been recorded at this location. Detectors BL-2 recorded for 10 nights, whereas the remaining four detectors recorded for 26 nights each. As such, the results from each detector cannot be directly compared with regards to activity levels. Little brown myotis was recorded at both detectors BL-2 and BL-5, despite the shorter recording periods.



**BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

Table 3.2 Results of Spring Bat Surveys

Detector ID	Location	Recording Dates (2022)	# Recording Nights	Number of Recorded Files per Species			
				Little Brown Myotis	<i>Myotis</i> sp.	HFU	Total
BL-1	In Assessment Area	24-Jun to 20-Jul	26	17	9	2	28
BL-2	In Assessment Area	24-Jun to 4-Jul	10	2			2
BL-3	In Assessment Area	24-Jun to 20-Jul	26	3			3
BL-4	In Project Boundary	24-Jun to 20-Jul	26	1			1
BL-5	In Project Boundary	24-Jun to 29-Jun	5	1			1
BL-6	In Assessment Area	24-Jun to 20 Jul	26	2		1	3
Total				26	9	3	38
Notes: HFU – High Frequency Unknown							

3.4 FALL RESULTS

Little brown myotis and silver-haired bats were identified during the fall migratory season at Bear Lake (Table 3.3). Little brown myotis was the most commonly recorded species, with a total of 38 records over five detectors. Fourteen of these records were from BL-1 and eleven records were from BL-2. Both of these detectors were located adjacent to wetlands. Three other detectors (BL-3, BL-4, and BL-6) recorded between three and seven little brown myotis calls each. Three *Myotis* sp. calls were also recorded at BL-2, and between one and five high frequency unknown calls were recorded at detectors BL-1, BL-4, BL-5, and BL-6. All little brown myotis, *Myotis* sp. and high frequency unknown calls were recorded between August 25 and October 1 (Appendix C, Table C.2).



**BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

Table 3.3 Results of Fall Bat Surveys

Detector ID	Location	Recording Dates (2022)	# Recording Nights	Number of Recorded Files per Species						
				Little Brown Myotis	<i>Myotis</i> sp.	Silver-haired Bat	Silver-haired OR Big Brown Bat	HFU	LFU	Total
BL-1	In Assessment Area	25-Aug to 23-Sept 2-Oct to 3-Nov	43	14				3		17
BL-2	In Assessment Area	25-Aug to 16-Sept 23-Sept to 5-Nov	65	11	3	1			1	16
BL-3	In Assessment Area	25-Aug to 10-Sept 23-Sept to 8-Oct 20-Oct to 5-Nov	47	3						3
BL-4	In Project Boundary	25-Aug to 13-Oct 20-Oct to 2-Nov	62	3		1		1		5
BL-5	In Project Boundary	25-Aug to 9-Oct 20-Oct to 2-Nov	58			1		3		4
BL-6	In Assessment Area	25-Aug to 14-Sept 20-Oct to 2-Nov	33	7			2	5		14
Total				38	3	3	2	12	1	59
Notes: HFU – High Frequency Unknown; LFU – Low Frequency Unknown										



BAT MONITORING PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Three records of silver-haired bats were recorded at Bear Lake. These occurred at BL-2, BL-4 and BL-5 on September 15, September 13, and October 2, respectively. Two calls that were categorized as silver-haired/big brown bats were recorded at BL-6 on September 12. Since the calls of these species can be very similar, they could not be distinguished in these recordings. Similarly, one call was categorized as low frequency unknown, which was recorded at BL-2 on September 24.

Bat recordings during the fall surveys occurred between August 25 and October 2. No bats were recorded during the last month of monitoring, from October 2 to early November.

4.0 DISCUSSION

Little brown myotis was the most common species during both the spring/summer and fall seasons. This species is a resident in Nova Scotia and is a SAR. The high number of June and July records from BL-1 suggest that little brown bats are likely breeding in that general area. BL-1 was located outside of the Project Boundary, but within the Assessment Area. It is important to note, however, that the number of recording nights varied by detector, and thus the results cannot be directly compared between detectors. The low number of bat recordings at the remaining detectors in June and July, despite suitable habitat, may be indicative of the diminished population of this species in the province due to white-nosed syndrome. There are signs that bat populations in Nova Scotia are starting to rebound from the steep declines that occurred at the onset of WNS in 2012/2013 (CBC 2021). Because of these population changes, these results will likely not be directly comparable to future bat data.

Fall records of little brown myotis and *Myotis* sp. may be representative of animals that are foraging or making short distance movements to swarming or hibernation sites.

Only one migratory species (silver-haired bat) was confirmed in the Assessment Area. This species was only recorded during the fall migration period, when this species is moving southwards towards wintering areas. Overall, the number of recorded silver-haired (and other low frequency calls representing migratory bats) was low, which may indicate a low amount of migratory activity in the Assessment Area. However, it is important to note that detectors were deployed at ground level, and thus migrants flying at height will have been missed.



5.0 RECOMMENDATIONS

To obtain two years of pre-construction bat monitoring, acoustic surveys should be repeated during the spring/summer of 2023. For the 2022 surveys, detectors were not deployed until June 24, at which point the majority of spring migratory activity was over. Detectors should be deployed earlier in 2023 (i.e., in early May) to capture this period. These detectors will remain deployed until June 30 to capture the main breeding period. With general turbine locations now determined, detectors will be placed at or near the proposed turbine locations. In addition, now that the Project Boundary has been finalized, a habitat assessment should be completed for areas requiring vegetation clearing. This will help to determine the quantity and quality of bat habitat that will be lost because of the Project.

Once the Project is operational, two years of post-construction mortality monitoring should occur.

6.0 CLOSURE

The information presented in this report represents the best technical judgment of Stantec based on information provided by NSPI and the data obtained from the work. Conclusions are based on site conditions observed by Stantec at the time the work was performed at the specific survey locations and cannot be extrapolated to other areas around these locations.



8.0 REFERENCES

- Adams, E. M., Gulka, J., & Williams, K. A. 2021. A review of the effectiveness of operational curtailment for reducing bat fatalities at terrestrial wind farms in North America. *PloS one*, 16(11), e0256382.
- Arnett, A.B., Brown, W.K., Erickson, W.P., Fiedler, J.K., Hamilton, B.L., Henry, T.H., Jain, A., Johnson, G.D., Kerns, J., Koford, R.R., Nicholson, C.P., O'Connell, T.J., Piorkowski, M.D. & Tankersley, R.D. 2008. Patterns of bat fatalities at wind energy facilities. *North American Journal of Wildlife Management*, 72, 61– 78.
- Broders, H.G. 2004. Status and Ecology of Nova Scotia Bat Species. Available online at <https://novascotia.ca/natr/wildlife/habfund/final03/brodersfinal.pdf>
- CBC. 2021 (July 5). Bat population in Nova Scotia showing signs of recovery. CBC News. <https://www.cbc.ca/news/canada/nova-scotia/bat-population-in-nova-scotia-showing-signs-of-recovery-1.6077404#:~:text=Researchers%20are%20optimistic%20Nova%20Scotia's,that%20point%20to%20population%20growth.>
- Environment Canada. 2015. Recovery Strategy for Little Brown Myotis (*Myotis lucifugus*), Northern Myotis (*Myotis septentrionalis*), and Tri-colored Bat (*Perimyotis subflavus*) in Canada [Proposed]. Species at Risk Act Recovery Strategy Series. Environment Canada, Ottawa. ix + 110 pp.
- Lausen, C., E. Baerwald, J. Gruver, and R. Barclay. 2010. APPENDIX 5: Bats and Wind Turbines. Pre-siting and pre-construction survey protocols, May 2010 Update. University of Calgary. In: Vonhof, M. 2002. Handbook of Inventory Methods and Standard Protocols for Surveying Bats in Alberta. Alberta Sustainable Resource Development, Fish and Wildlife Division, Edmonton, Alberta. Revised 2005.
- NSDNR (Nova Scotia Department of Natural Resources). 2017. Ecological Land Classification for Nova Scotia. Prepared by Peter Neily, Sean Basquill, Eugene Quigley and Kevin Keys. Available Online: <Ecological-Land-Classification-guide.pdf> (novascotia.ca). Last accessed: October 25, 2022
- NSDNR (Nova Scotia Department of Natural Resources and Renewables). 2021. Forest Inventory – Geographic Information Systems. Available online: <https://novascotia.ca/natr/forestry/gis/forest-inventory.asp>. Last accessed: January 20, 2022.
- Poissant, J. A., H. G. Broders, and G. M. Quinn, 2010. Use of lichen as a roosting substrate by *Perimyotis subflavus*, the tricolored bat, in Nova Scotia, *Écoscience*, 17:4, 372-378.
- Watt, Robert and Caceres, M. 1999. Managing snags in the Boreal Forests of Northeastern Ontario. OMNR, Northeast Science & Technology. TN-016. 20p.

\\ca0213-ppfss01\work_group\1214\active\121417191\05_report_deliverable\121417191_deliverable\fnl_07_bat_fall_2022_results\bear lake report\fnl_rpt_121417191_nspi_bearlake_bats_20230313.docx



APPENDIX A

Maternity Roost Habitat Assessment Data Sheet

Study Area _____
Stand ID _____
Date _____
Time _____
Field Staff _____

Clumps of Usnea Lichen	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant
Snags	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant

Trees with DBH > 25 cm, containing:

Crevices and/or cracks	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant
Peeling bark	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant

Trees with DBH > 10 cm, containing

Crevices and/or cracks	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant
Peeling bark	<input type="checkbox"/> Present	<input type="checkbox"/> Uncommon	<input type="checkbox"/> Common	<input type="checkbox"/> Abundant

Main Tree Species Present: _____

Overall Site Notes: _____

APPENDIX B

Habitat Data

Table B1 Field data: Maternity Roost Habitat Suitability Surveys

Forest Stand ID	Location	Date	Time	Staff	Clumps of Usnea Lichen	Snags	Trees in Decay Classes 1-3	Trees with DBH > 25 cm		Trees with DBH > 10 cm		Main Tree Species Present	Overall Site Notes
								Trees with DBH > 25 cm Cavities / Cracks / Crevices	Trees with DBH > 25 cm Loose peeling bark	Cavities / Cracks / Crevices	Loose Peeling Bark		
BL1	In Assessment Area	4/25/2022	4:12 PM	MJC, MB	Present	Common	Uncommon	Present	Present	Present	Present	<i>Picea rubens</i> (50%), <i>Acer rubrum</i> (15%), <i>Betula papyrifera</i> (5%), <i>Abies balsamea</i> (5%)	Partially harvested along one edge. N5 N21
BL2	In Assessment Area	4/25/2022	3:17 PM	MJC, MB	Present	Uncommon	Present	Present	Present	None	Present	<i>Acer rubrum</i> (15%), <i>Populus grandidentata</i> (10%), <i>Pinus strobus</i> (5%), <i>Picea rubens</i> (1%)	Partial cut ~50% of tree cover removed.
BL3	In Assessment Area	4/25/2022	3:35 PM	MJC, MB	Present	Common	Uncommon	Common	Uncommon	Present	Present	<i>Acer rubrum</i> (40%), <i>Betula alleghaniensis</i> (15%), <i>Betula papyrifera</i> (5%), <i>Picea rubens</i> (15%), <i>Abies balsamea</i> (5%)	Stand was probably thinned or partially harvested about 30 years ago
BL4	In Assessment Area	4/25/2022	2:13 PM	MB, MJC, DM, HB	Present	Present	Present	Uncommon	Present	Present	Present	<i>Acer rubrum</i> (10%), <i>Betula alleghaniensis</i> (15%), <i>Picea rubens</i> (5%)	Partial cut, approximately 50% cover removed. Standing trees in apparent good health.
BL5	In Assessment Area	4/25/2022	1:31 PM	MB, MJC, DM, HB	Present	Common	Common	Uncommon	Uncommon	Present	Present	<i>Picea rubens</i> (55%), <i>Betula alleghaniensis</i> (25%), <i>Acer rubrum</i> (5%)	Generally a healthy stand, light mortality, most suitable bat cavities and crevices are in yellow birch.
BL6	In Assessment Area	4/25/2022	2:45 PM	HB, DM	Present	Uncommon	Common	Uncommon	Present	Present	Present	<i>Abies balsamea</i> , <i>Picea rubens</i> , <i>Betula alleghaniensis</i> , <i>Acer rubrum</i>	Generally healthy stand, some dieback. Active cavities (avian nests) present. Strip of dense immature balsam fir crosses "both" legs of transect.
BL7	In Assessment Area	4/25/2022	-	HB, DM	Present	Uncommon	Common	Uncommon	Uncommon	Present	Uncommon	<i>Picea rubens</i> , <i>Acer rubrum</i> , <i>Betula alleghaniensis</i>	Some die back, particularly among picea (>10 cm DBH) in the north "arm" of the transect
BL9	In Assessment Area	5/4/2022	3:20 PM	MJC, SC	Present (very little)	Uncommon	Uncommon	Present	Uncommon	Present	Present	<i>Populus grandidentata</i> (25%), <i>Acer rubrum</i> (20%), <i>Picea rubens</i> (15%), <i>Abies balsamea</i> (10%)	Snags tend to be aggregated together. Mostly ideal balsam fir, peeling bark and large dead branches are fairly common on bigtooth aspen. Stand is located next to an old beaver pond which is no longer in use and relatively dry.
BL10	In Assessment Area	5/4/2022	1:38 PM	MJC, SC	Common	Common	Uncommon	Common	Uncommon	Uncommon	Uncommon	<i>Picea rubens</i> (50%), <i>Acer rubrum</i> (10%), <i>Abies balsamea</i> (10%)	Lots of wood pecker activity and moderately heavy tree mortality.
BL11	In Project Boundary	5/4/2022	2:05 PM	MJC, SC	Uncommon	Common	Present	Present	Present	Present	Present	<i>Picea rubens</i> (45%), <i>Acer rubrum</i> (15%), <i>Abies balsamea</i> (5%)	Many snags, mostly balsam fir, many snags have loose bark and lots of woodpecker working. Mature red spruce are typically in good condition with few cracks, cavities, crevices or loose bark.
BL12	In Project Boundary	5/4/2022	2:30 PM	MJC, SC	Present	Uncommon	Present	Present (very few)	Present (very few)	Present (very few)	Present (very few)	<i>Picea rubens</i> (60%), <i>Acer rubrum</i> (15%), <i>Abies balsamea</i> (1%)	Some balsam fir snags present with peeling bark. Relatively little woodpecker activity. Stand is very open and corner of transect was harvested. Stand is surrounded by clear cuts.
BL13	In Project Boundary	5/8/2022	11:40 AM	JR, AF	Present	Common	Common	Common	Common	Uncommon	Uncommon	<i>Abies balsamea</i> , <i>Pinus strobus</i> , <i>Picea spp.</i> , <i>Acer rubrum</i>	Some good potential tall snags here. Some wetlands within site that could provide good foraging. Moderate to high potential for bat mat colonies here, however most trees/snags are conifers, but there are some good big old red maple snags with high potential. Good/decent site for ARU.
BL14	In Assessment Area	5/8/2022	1:06 PM	JR, AF	Present	Uncommon	Uncommon	Uncommon	Uncommon	Uncommon	Uncommon	<i>Abies balsamea</i> , <i>Acer rubrum</i> , <i>Picea spp.</i> , <i>Betula papyrifera</i>	Low to moderate potential. A few snags but not common/abundant throughout the site. Generally nice older stand. Moderate potential. Similar potential to BL15.
BL15	In Project Boundary	5/8/2022	12:35 PM	JR, AF	Present	Uncommon	Uncommon	Uncommon	Uncommon	Uncommon	Uncommon	<i>Abies balsamea</i> , <i>Pinus strobus</i> , <i>Picea spp.</i> , <i>Acer rubrum</i>	Moderate potential. Some red maple snags and cavities in very large pines. Overall decent potential - less than BL13 overall. Not a high priority - but could put an ARU here.
BL16	In Project Boundary	5/9/2022	11:30 AM	JR, MB	Present	Common	Common	Common	Common	Common	Common	<i>Betula papyrifera</i> , <i>Acer rubrum</i> , <i>Acer saccharum</i> , <i>Picea rubens</i>	High potential site. Lots of large mature or decaying birches and maple with potential for maternity colonies. Very open understory, mature hardwood. Good spot for detector.
BL19	In Project Boundary	5/8/2022	1:55 PM	JR, AF	Uncommon	Uncommon	Common	Uncommon	Uncommon	Uncommon	Common	<i>Picea spp.</i> , <i>Acer rubrum</i> , <i>Abies balsamea</i> , <i>Tsuga canadensis</i>	This is a little swath of forest that follows a watercourse. The forest has been cut on both sides - just the watercourse buffer is remaining. Very small watercourse. There are some snags, most under 15cm DBH. Hard walking - slash down. Some potential, but this is a lower priority site for an ARU. Left with 70-80m on transect, can see and hard walking.
BL20	In Project Boundary	5/9/2022	10:20 AM	JR, MB	Common	Common	Common	Uncommon	Uncommon	Common	Common	<i>Abies balsamea</i> , <i>Picea rubens</i> , <i>Acer rubrum</i>	Overall good habitat. River provides good foraging/commuting habitat. Snags are relatively abundant - and the older & dying red maples provide good cavities. *Put a bat detector here... perhaps at north end of line along river, by photo point

APPENDIX C

Bat Records

Table C.1 Results of Spring Bat Surveys - Bear Lake

MYOLUC	Location	File Name	Date	Time	Species
BL-1	In Assessment Area	SMU08326_20220625_230511.wav	6/25/2022	23 05:11	MYOSPP
BL-1	In Assessment Area	SMU08326_20220625_230908.wav	6/25/2022	23 09:08	MYOSPP
BL-1	In Assessment Area	SMU08326_20220627_043745.wav	6/27/2022	4 37:45	MYOSPP
BL-1	In Assessment Area	SMU08326_20220627_043902.wav	6/27/2022	4 39:02	MYOSPP
BL-1	In Assessment Area	SMU08326_20220627_045020.wav	6/27/2022	4 50:20	MYOSPP
BL-1	In Assessment Area	SMU08326_20220627_045219.wav	6/27/2022	4 52:19	MYOSPP
BL-1	In Assessment Area	SMU08326_20220701_234215.wav	7/1/2022	23:42:15	MYOLUC
BL-1	In Assessment Area	SMU08326_20220701_234219.wav	7/1/2022	23:42:19	MYOLUC
BL-1	In Assessment Area	SMU08326_20220702_042458.wav	7/2/2022	4 24:58	MYOLUC
BL-1	In Assessment Area	SMU08326_20220703_014636.wav	7/3/2022	1:46:36	MYOLUC
BL-1	In Assessment Area	SMU08326_20220703_233219.wav	7/3/2022	23 32:19	MYOLUC
BL-1	In Assessment Area	SMU08326_20220704_223843.wav	7/4/2022	22 38:43	MYOLUC
BL-1	In Assessment Area	SMU08326_20220706_004523.wav	7/6/2022	0:45:23	MYOLUC
BL-1	In Assessment Area	SMU08326_20220706_004542.wav	7/6/2022	0:45:42	MYOSPP
BL-1	In Assessment Area	SMU08326_20220709_000636.wav	7/9/2022	0 06:36	MYOSPP
BL-1	In Assessment Area	SMU08326_20220709_011430.wav	7/9/2022	1:14:30	MYOLUC
BL-1	In Assessment Area	SMU08326_20220710_225052.wav	7/10/2022	22 50:52	MYOLUC
BL-1	In Assessment Area	SMU08326_20220713_030616.wav	7/13/2022	3 06:16	MYOLUC
BL-1	In Assessment Area	SMU08326_20220714_000156.wav	7/14/2022	0 01:56	MYOLUC
BL-1	In Assessment Area	SMU08326_20220715_235419.wav	7/15/2022	23 54:19	HiF
BL-1	In Assessment Area	SMU08326_20220716_025758.wav	7/16/2022	2 57:58	MYOLUC
BL-1	In Assessment Area	SMU08326_20220717_012234.wav	7/17/2022	1 22:34	MYOLUC
BL-1	In Assessment Area	SMU08326_20220717_013903.wav	7/17/2022	1 39:03	MYOLUC
BL-1	In Assessment Area	SMU08326_20220717_024545.wav	7/17/2022	2:45:45	MYOLUC
BL-1	In Assessment Area	SMU08326_20220717_233658.wav	7/17/2022	23 36:58	MYOSPP
BL-1	In Assessment Area	SMU08326_20220718_044012.wav	7/18/2022	4:40:12	HiF
BL-1	In Assessment Area	SMU08326_20220719_232130.wav	7/19/2022	23 21:30	MYOLUC
BL-1	In Assessment Area	SMU08326_20220720_000221.wav	7/20/2022	0 02:21	MYOLUC
BL-2	In Assessment Area	SMU08135_20220703_232022.wav	7/3/2022	23 20:22	MYOLUC
BL-2	In Assessment Area	SMU08135_20220703_232423.wav	7/3/2022	23 24:23	MYOLUC
BL-3	In Assessment Area	SMU08128_20220710_032715.wav	7/10/2022	3 27:15	MYOLUC
BL-3	In Assessment Area	SMU08128_20220712_221118.wav	7/12/2022	22:11:18	MYOLUC
BL-3	In Assessment Area	SMU08128_20220715_021938.wav	7/15/2022	2:19:38	MYOLUC
BL-4	In Project Boundary	SMU08053_20220710_230737.wav	7/10/2022	23 07:37	MYOLUC
BL-5	In Project Boundary	SMU08143_20220626_015552.wav	6/26/2022	1 55:52	MYOLUC
BL-6	In Assessment Area	SMU08217_20220626_224819.wav	6/26/2022	22:48:19	MYOLUC
BL-6	In Assessment Area	SMU08217_20220627_025629.wav	6/27/2022	2 56:29	HiF
BL-6	In Assessment Area	SMU08217_20220701_010650.wav	7/1/2022	1 06:50	MYOLUC

Note: MYOLUC = Myotis lucifugus, MYOSPP = Myotis spp., HiF = high frequency unknown



Table C.2 Results of Fall Bat Surveys - Bear Lake

Detector ID	Location	File Name	Date	Time	Species
BL-1	In Assessment Area	SMU08053_20220826_000517.wav	8/26/2022	0:05:17	MYOLUC
BL-1	In Assessment Area	SMU08053_20220826_225539.wav	8/26/2022	22:55:39	MYOLUC
BL-1	In Assessment Area	SMU08053_20220827_022043.wav	8/27/2022	2:20:43	MYOLUC
BL-1	In Assessment Area	SMU08053_20220827_060147.wav	8/27/2022	6:01:47	MYOLUC
BL-1	In Assessment Area	SMU08053_20220827_223008.wav	8/27/2022	22:30:08	MYOLUC
BL-1	In Assessment Area	SMU08053_20220828_223759.wav	8/28/2022	22:37:59	MYOLUC
BL-1	In Assessment Area	SMU08053_20220828_224209.wav	8/28/2022	22:42:09	MYOLUC
BL-1	In Assessment Area	SMU08053_20220829_223445.wav	8/29/2022	22:34:45	MYOLUC
BL-1	In Assessment Area	SMU08053_20220830_031954.wav	8/30/2022	3:19:54	MYOLUC
BL-1	In Assessment Area	SMU08053_20220830_054251.wav	8/30/2022	5:42:51	MYOLUC
BL-1	In Assessment Area	SMU08053_20220901_204134.wav	9/1/2022	20:41:34	HiF
BL-1	In Assessment Area	SMU08053_20220904_204131.wav	9/4/2022	20:41:31	MYOLUC
BL-1	In Assessment Area	SMU08053_20220905_044420.wav	9/5/2022	4:44:20	MYOLUC
BL-1	In Assessment Area	SMU08053_20220911_055615.wav	9/11/2022	5:56:15	MYOLUC
BL-1	In Assessment Area	SMU08053_20220913_054034.wav	9/13/2022	5:40:34	MYOLUC
BL-1	In Assessment Area	SMU08053_20220913_231106.wav	9/13/2022	23:11:06	HiF
BL-1	In Assessment Area	SMU08053_20220914_055946.wav	9/14/2022	5:59:46	HiF
BL-2	In Assessment Area	SMU08084_20220825_223659.wav	8/25/2022	22:36:59	MYOSPP
BL-2	In Assessment Area	SMU08084_20220827_041244.wav	8/27/2022	4:12:44	MYOLUC
BL-2	In Assessment Area	SMU08084_20220827_212047.wav	8/27/2022	21:20:47	MYOLUC
BL-2	In Assessment Area	SMU08084_20220828_221111.wav	8/28/2022	22:11:11	MYOLUC
BL-2	In Assessment Area	SMU08084_20220830_004130.wav	8/30/2022	0:41:30	MYOLUC
BL-2	In Assessment Area	SMU08084_20220830_032908.wav	8/30/2022	3:29:08	MYOSPP
BL-2	In Assessment Area	SMU08084_20220830_055832.wav	8/30/2022	5:58:32	MYOLUC
BL-2	In Assessment Area	SMU08084_20220903_221910.wav	9/3/2022	22:19:10	MYOSPP
BL-2	In Assessment Area	SMU08084_20220904_214044.wav	9/4/2022	21:40:44	MYOLUC
BL-2	In Assessment Area	SMU08084_20220905_045917.wav	9/5/2022	4:59:17	MYOLUC
BL-2	In Assessment Area	SMU08084_20220913_215419.wav	9/13/2022	21:54:19	MYOLUC
BL-2	In Assessment Area	SMU08084_20220914_011332.wav	9/14/2022	1:13:32	MYOLUC
BL-2	In Assessment Area	SMU08084_20220914_011341.wav	9/14/2022	1:13:41	MYOLUC
BL-2	In Assessment Area	SMU08084_20220915_234953.wav	9/15/2022	23:49:53	LASNOC
BL-2	In Assessment Area	SMU08084_20220924_195358.wav	9/24/2022	19:53:58	LoF
BL-2	In Assessment Area	SMU08084_20220925_203728.wav	9/25/2022	20:37:28	MYOLUC
BL-3	In Assessment Area	SMU08135_20220830_025612.wav	8/30/2022	2:56:12	MYOLUC
BL-3	In Assessment Area	SMU08135_20220903_023852.wav	9/3/2022	2:38:52	MYOLUC
BL-3	In Assessment Area	SMU08135_20220906_203725.wav	9/6/2022	20:37:25	MYOLUC
BL-4	In Project Boundary	SMU08128_20220826_041754.wav	8/26/2022	4:17:54	HiF
BL-4	In Project Boundary	SMU08128_20220907_211343.wav	9/7/2022	21:13:43	MYOLUC
BL-4	In Project Boundary	SMU08128_20220907_214510.wav	9/7/2022	21:45:10	MYOLUC
BL-4	In Project Boundary	SMU08128_20220912_004517.wav	9/12/2022	0:45:17	LASNOC
BL-4	In Project Boundary	SMU08128_20220924_214242.wav	9/24/2022	21:42:42	MYOLUC
BL-5	In Project Boundary	SMU07847_20220828_233448.wav	8/28/2022	23:34:48	HiF
BL-5	In Project Boundary	SMU07847_20220829_003754.wav	8/29/2022	0:37:54	HiF
BL-5	In Project Boundary	SMU07847_20221001_191407.wav	10/1/2022	19:14:07	HiF
BL-5	In Project Boundary	SMU07847_20221002_051843.wav	10/2/2022	5:18:43	LASNOC
BL-6	In Assessment Area	SMU08217_20220826_024148.wav	8/26/2022	2:41:48	MYOLUC
BL-6	In Assessment Area	SMU08217_20220826_051328.wav	8/26/2022	5:13:28	HiF
BL-6	In Assessment Area	SMU08217_20220827_022906.wav	8/27/2022	2:29:06	MYOLUC
BL-6	In Assessment Area	SMU08217_20220827_235234.wav	8/27/2022	23:52:34	MYOLUC
BL-6	In Assessment Area	SMU08217_20220828_214544.wav	8/28/2022	21:45:44	HiF
BL-6	In Assessment Area	SMU08217_20220830_000415.wav	8/30/2022	0:04:15	MYOLUC
BL-6	In Assessment Area	SMU08217_20220830_224314.wav	8/30/2022	22:43:14	MYOLUC
BL-6	In Assessment Area	SMU08217_20220830_224321.wav	8/30/2022	22:43:21	HiF
BL-6	In Assessment Area	SMU08217_20220831_000656.wav	8/31/2022	0:06:56	MYOLUC
BL-6	In Assessment Area	SMU08217_20220831_002813.wav	8/31/2022	0:28:13	MYOLUC
BL-6	In Assessment Area	SMU08217_20220902_000455.wav	9/2/2022	0:04:55	HiF
BL-6	In Assessment Area	SMU08217_20220911_004756.wav	9/11/2022	0:47:56	HiF
BL-6	In Assessment Area	SMU08217_20220912_012938.wav	9/12/2022	1:29:38	LASNOC/EPTFUS
BL-6	In Assessment Area	SMU08217_20220912_201647.wav	9/12/2022	20:16:47	LASNOC/EPTFUS

Note: MYOLUC = Myotis lucifugus, MYOSPP = Myotis spp., LASNOC = Lasiurus noctivagans, LASNOC/EPTFUS = Lasiurus noctivagans/Eptesicus fuscus, HiF = high frequency unknown, LoF = Low frequency unknown



APPENDIX M
STANTEC AVIAN MIGRATION SURVEY PROGRAM



Avian Migration Survey Program
for Proposed Wind Project near
Bear Lake, Nova Scotia

Final Report

March 15, 2023

Prepared for:

Nova Scotia Power Inc.
1223 Lower Water St.
Halifax, NS B3J 3S8

Prepared by:

Stantec Consulting Ltd.
40 Highfield Park, Suite 102
Dartmouth, NS B3A 0A3

File: 121417191

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

This document titled Avian Migration Survey Program for Proposed Wind Project near Bear Lake, Nova Scotia was prepared by Stantec Consulting Ltd. (“Stantec”) for the account of Nova Scotia Power Inc. (the “Client”). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec’s professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.



Table of Contents

1.0	INTRODUCTION	1
2.0	METHODS	4
2.1	SPRING AND FALL STOPOVER MIGRATION SURVEYS.....	4
2.2	DIURNAL RAPTOR PASSAGE MONITORING SURVEYS.....	7
3.0	RESULTS	8
3.1	STOPOVER MIGRATION SURVEYS.....	8
3.1.1	Spring Migration	8
3.1.2	Fall Migration	11
3.2	DIURNAL RAPTOR PASSAGE MONITORING SURVEYS.....	15
3.3	SPECIES AT RISK AND SPECIES OF CONSERVATION CONCERN.....	17
4.0	SUMMARY	19
5.0	CLOSURE	19
6.0	REFERENCES	20

LIST OF TABLES

Table 1.1	AC CDC Status Ranks	1
Table 2.1	Habitat Descriptions of Each Stopover Migration Survey Transect.....	4
Table 2.2	Summary of Environmental Conditions During Stopover Migration Transect Surveys	5
Table 2.3	Summary of Environmental Conditions during Diurnal Raptor Passage Monitoring Surveys.....	7
Table 3.1	Species Diversity and Relative Abundance, Spring Stopover Migration Transect Surveys	8
Table 3.2	Relative Heights of Birds Observed during Spring Stopover Migration Transect Surveys	11
Table 3.3	Species Diversity and Relative Abundance, Fall Stopover Migration Transect Surveys	12
Table 3.4	Relative Heights of Birds Observed during Fall Stopover Migration Transect Surveys	15
Table 3.5	Raptor Species Observed during Diurnal Raptor Passage Monitoring Surveys	16
Table 3.6	SAR and SOCC Observed during the 2021/2022 Migration Monitoring Periods	18
Table A1	Migratory Bird Survey Data	Appendix A



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

LIST OF FIGURES

Figure 1 Survey Locations for Avian Migration Survey Program: Bear Lake..... 3

LIST OF APPENDICES

Appendix A Survey Data



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

1.0 INTRODUCTION

Nova Scotia Power Incorporated (NSPI) is the Proponent for the proposed Bear Lake Wind Project, near Upper Vaughan, Nova Scotia, (the Project). The Project consists of the construction and operation of approximately 14 to 19 wind turbines, in the range of 4.5 to 6 MW, for a total project capacity of up to 89 MW.

The Project Boundary shown on Figure 1 (in red) refers to the area within which the turbines will be located. A wider Assessment Area (Figure 1; in black) indicates the area within which additional surveys were conducted. In some cases, survey locations are outside the Project Boundary and Assessment Areas where earlier study area boundaries were used.

In 2021 and 2022, Stantec completed a variety of bird surveys in the vicinity of the proposed Project. This report presents the results of two of the surveys: stopover migration transect surveys and raptor watch surveys. The primary objective of these surveys was to characterize the composition and abundance of the bird communities stopping over within the study area, including possible Species at Risk (SAR) and Species of Conservation Concern (SOCC) during spring (April-May) and fall (August-October) migration.

Species at Risk (SAR) are herein defined as those species listed as being either *endangered*, *threatened*, *vulnerable*, or of *special concern* under the Nova Scotia *Endangered Species Act* (NS ESA), the federal *Species at Risk Act* (SARA) and/or by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC). Species of Conservation Concern (SOCC) are those species that do not meet the above definition of SAR, but are listed as S1, S2, or S3 in Nova Scotia by the Atlantic Canada Conservation Data Centre (AC CDC; Table 1.1).

Table 1.1 AC CDC Status Ranks

S-Rank/ Qualifier	Description
S1	Critically Imperiled - Critically imperiled in the province because of extreme rarity (often 5 or fewer occurrences). May be especially vulnerable to extirpation.
S2	Imperiled - Imperiled in the province because of rarity due to very restricted range, very few populations (6 to 20 occurrences or few remaining individuals). May be vulnerable to extirpation due to rarity or other factors.
S3	Vulnerable - Vulnerable in the province due to a restricted range, relatively few populations.
S4	Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors (80+ occurrences).
S5	Secure - Common, widespread, and abundant in the province.
S#S#	A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community
?	Inexact or Uncertain - Denotes inexact or uncertain numeric rank.
SNR	Unranked - Provincial conservation status not yet assessed.
SU	Unrankable - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

Table 1.1 AC CDC Status Ranks

S-Rank/ Qualifier	Description
SNA	Not Applicable - A conservation status rank is not applicable because the species is not a suitable target for conservation activities.
B	Breeding - Conservation status refers to the breeding population of the species in the province
N	Nonbreeding - Conservation status refers to the non-breeding population of the species in the province.
M	Migrant - Migrant species occurring regularly on migration at particular staging areas or concentration spots where the species might warrant conservation attention. Conservation status refers to the aggregating transient population of the species in the province.
Reference: AC CDC 2023	

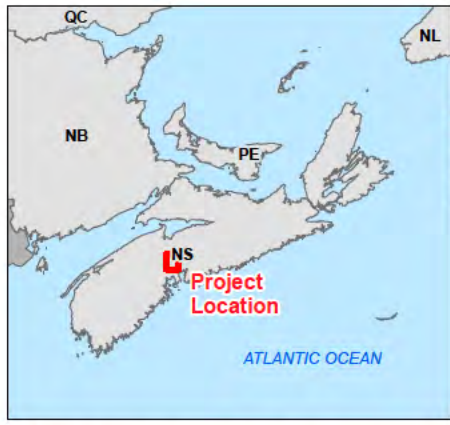
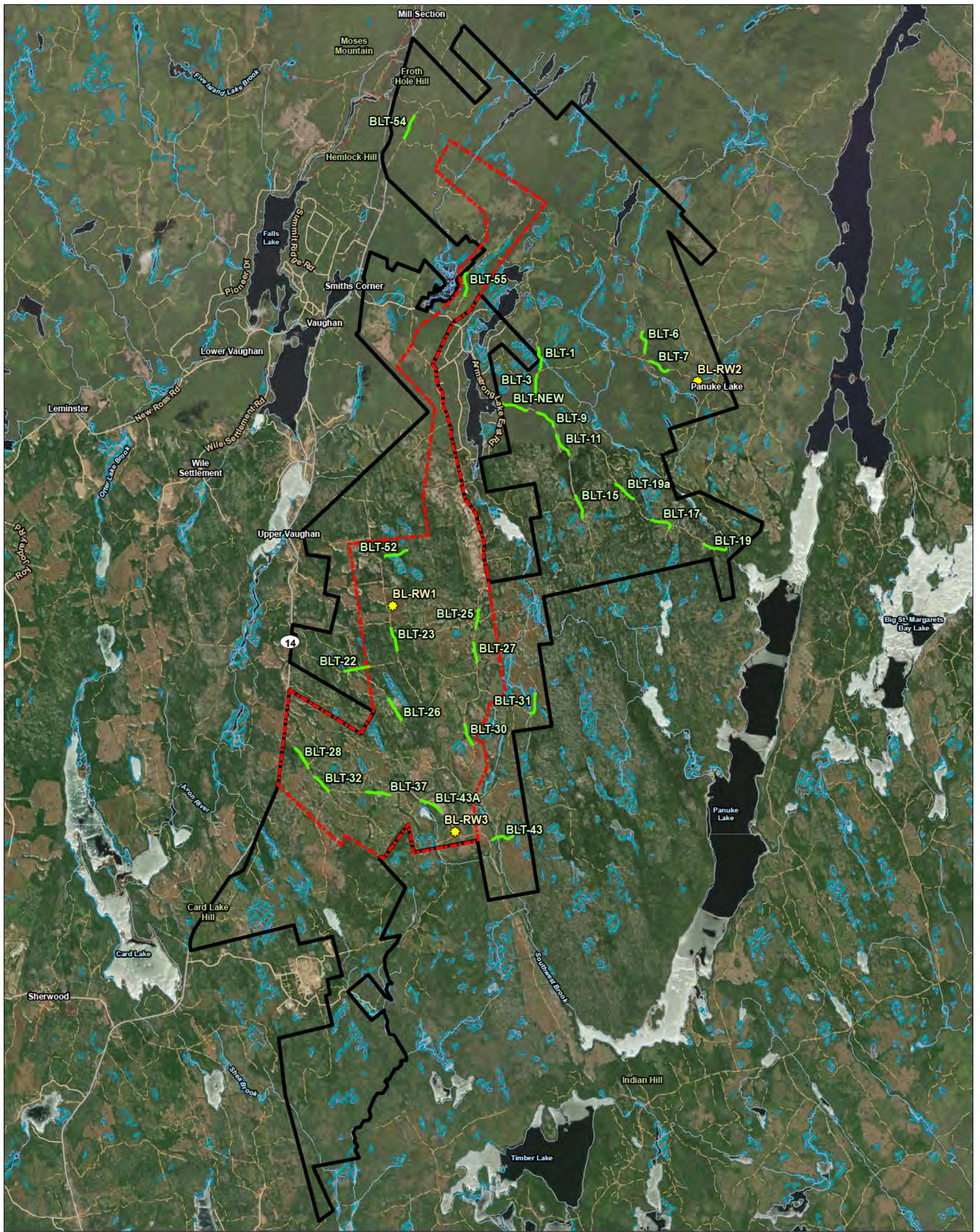
The Project is situated in the Western Ecoregion of Nova Scotia. Most of the Assessment Area and Project Boundary lie within the South Mountain Ecodistrict, with southern parts of the Project Boundary within the LaHave Drumlins Ecodistrict. The southern portion of the Assessment Area overlaps the St. Margaret’s Bay Ecodistrict.

The Western Ecoregion is characterized by a milder climate than the rest of Nova Scotia, in part due to prevailing westerly winds which direct warmer temperatures inland from the Gulf of Maine. Overall, the region has early springs, warm summers, and milder winters. Most of the Project Boundary is within the South Mountain Ecodistrict within the Western Ecoregion. This Ecodistrict is characterized as a rugged upland of pine and spruce dominated forests with abundant lakes, rivers, and wetlands. The forests have been strongly influenced by several factors including a long history of forest harvesting and wildfires. Eastern white pine (*Pinus strobus*) is a typical component of most stands along with northern red oak (*Quercus rubra*; Nova Scotia Department of Natural Resources (NSDNR) 2017). Red spruce (*Picea rubens*), eastern white pine, and eastern hemlock (*Tsuga canadensis*) occupy most slope positions with moderately to well drained soils, and balsam fir (*Abies balsamea*) is often present in all stands at some stage of development.

The LaHave Drumlins Ecodistrict is also dominated by coniferous forest, with tolerant hardwoods on the upper slopes of drumlins and well drained hills. Drumlins or drumlin-like landforms which make up 46% of the Ecodistrict provide conditions for development of a late successional Acadian Forest of red spruce, eastern hemlock, eastern white pine, and yellow birch (*Betula alleghaniensis*). Sugar maple (*Acer saccharum*), northern red oak and American beech (*Fagus grandifolia*) are found in lower lying areas.

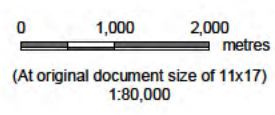
The St. Margaret’s Bay Ecodistrict contains soils very similar to those of the South Mountain Ecodistrict, but a cooler climate and higher humidity and soil moisture changes the forest composition. Much of this Ecodistrict is covered with stands of Acadian softwood forests of red spruce with eastern hemlock, eastern white pine, and yellow birch. Shrub layers are composed primarily of advanced regeneration of overstory species such as balsam fir and red maple (NSDNR 2017).





Notes
 1. Coordinate System: NAD 1983 CSRS UTM Zone 20N
 2. Data Sources: Government of NS, Client, Stantec
 3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- Raptor Survey Location
- Migratory Survey Transect
- Project Boundary, February 2023
- Assessment Area, February 2023
- Arterial Road
- Local Road
- Resource Road / Trail
- Transmission Line
- Watercourse
- Wetland (NSE)
- Wetland (NHN)
- Waterbody



Project Location
 Nutby Mountain
 Nova Scotia

Client/Project
 Nova Scotia Power Inc.
 NSPI Wind EA Support Services

Prepared on 2023-03-02
 121417191_01Ba

Figure No.
 1

Title
 Survey Locations for Avian Migration
 Survey Program: Bear Lake

I:\a0215-ppisa0\work_group\121417191\03_data\gis_data\migratory_transect_bearlake.mxd Revised: 2023-03-02 By: mblackwood

2.0 METHODS

Stantec considered information and guidance provided in Environment Canada’s guidelines for wind turbines and birds (Environment Canada 2007a) and survey protocols document (Environment Canada 2007b), as well as previous guidance from the Canadian Wildlife Service (CWS) on methodology, timing and frequency of surveys when developing survey protocols. The following sections describe the methods used to undertake stopover migration monitoring and diurnal raptor passage surveys.

2.1 SPRING AND FALL STOPOVER MIGRATION SURVEYS

Stopover bird migration monitoring surveys were completed during the spring and fall seasons and involved the collection of presence and behavioural data of birds observed from accessible survey transects. Transects were established along existing roads (mainly forest roads) through representative habitats (Table 2.1, Figure 1) and were 500 metres (m) long. As the study area changed, additional transects were included in the survey program. Transects were surveyed during both the spring and fall migration monitoring periods.

Table 2.1 Habitat Descriptions of Each Stopover Migration Survey Transect

Transect ID	Location	Habitat Types Intersected by Transect
BLT-1	In Assessment Area	Clearcut, old softwood, mature softwood, young softwood, swamp, unclassified wetland
BLT-3	In Assessment Area	Old softwood, mature softwood
BLT-6	In Assessment Area	Clearcut, old softwood
BLT-7	In Assessment Area	Clearcut, mature softwood, young mixedwood
BLT-9	In Assessment Area	Old softwood, mature softwood, mature mixedwood
BLT-11	In Assessment Area	Clearcut, old softwood, mature mixedwood
BLT-15	In Assessment Area	Clearcut, old softwood
BLT-17	In Assessment Area	Clearcut, mature softwood, swamp
BLT-19 (BLT-19A)	In Assessment Area	Clearcut, mature mixedwood, old softwood
BLT-22	In Project Boundary	Anthropogenic, clearcut, old softwood, mature softwood
BLT-23	In Project Boundary	Clearcut, mature hardwood, mature softwood
BLT-25	In Project Boundary	Clearcut, old softwood
BLT-26	In Project Boundary	Old softwood, mature hardwood
BLT-27	In Project Boundary	Anthropogenic, clearcut
BLT-28	In Project Boundary	Clearcut
BLT-30	In Project Boundary	Clearcut, old softwood
BLT-31	In Assessment Area	Clearcut, old softwood
BLT-32	In Project Boundary	Clearcut



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

Table 2.1 Habitat Descriptions of Each Stopover Migration Survey Transect

Transect ID	Location	Habitat Types Intersected by Transect
BLT-37	In Project Boundary	Clearcut
BLT-43	In Assessment Area	Clearcut, old softwood, mature softwood, swamp, unclassified wetland
BLT-43A	In Project Boundary	Clearcut, old softwood, mature softwood, swamp, unclassified wetland
BLT-52	In Project Boundary	Mature softwood, old softwood, unclassified wetland
BLT-54	In Assessment Area	Anthropogenic, clearcut, old hardwood
BLT-55	In Project Boundary	Mature softwood
BLT-NEW	In Assessment Area	Old softwood, mature softwood, mature mixedwood

Stopover migration transect surveys were completed weekly at each transect and repeated through the migration periods. Fall migration surveys began mid-season in 2021 which missed the early part of the season. Follow-up surveys were completed in the early fall season of 2022.

Surveys generally began near sunrise and continued until late morning. The order in which transects were completed was randomized to the extent possible, accounting for site accessibility and travel time. A variation of the standardized area search method was completed at each 500 m long transect. Birds detected either visually or through auditory cues were documented, and information on the species, number of individuals, and behaviour (including relative flight height, where applicable) was recorded for each observation.

Surveys were completed during suitable environmental conditions, including light to no precipitation and low to moderate winds. A summary of environmental conditions encountered on each survey day is provided in Table 2.2.

Table 2.2 Summary of Environmental Conditions During Stopover Migration Transect Surveys

Date	Temperature and Visibility	Relative Wind Speed and Direction	Completed Transects
Fall 2021			
September 17	14°C. Clear and overcast	No wind	BLT-1, 3, 6, 7, 9, 11, 15, 17, 19
September 18	15°C. Clear and overcast	No wind	BLT-22, 23, 25, 26, 27, 28, 30, 31, 32, 37, 43
September 22	11-15°C. Clear and partly cloudy	Light south winds	BLT-1, 3, 6, 7, 9, 11, 15, 17, 19
September 23	10-15°C. Clear with little cloud cover	Light southwest winds	BLT-22, 23, 27, 28, 30, 31, 37, 43
September 30	12-17°C. Clear and overcast	Light winds	BLT-1, 6, 7, 11, 15, 17, 19
October 1	9-11°C. Clear to light fog and little cloud cover	Light winds	BLT-22, 23, 26, 28, 32, 37, 43
October 6	4-12°C. Clear with no cloud cover	Light winds	BLT-22, 23, 26, 28, 32, 37, 43



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

**Table 2.2 Summary of Environmental Conditions During Stopover Migration
Transect Surveys**

Date	Temperature and Visibility	Relative Wind Speed and Direction	Completed Transects
October 7	6-9°C. Clear with light cloud cover	No wind	BLT-1, 6, 7, 17, 19
October 15	8-15°C. Clear and partly cloudy	Light to moderate winds	BLT-1, 6, 7, 11, 15, 17, 19, 22, 23, 26, 28, 32, 37, 43
October 21	7-10°C. Clear and partly cloudy to overcast	Light winds	BLT-1, 6, 7, 17, 19
October 22	14-16°C. Clear with intermittent light drizzle	Light winds	BLT-22, 23, 26, 27, 28, 37, 43
Spring 2022			
March 23	1-3°C. Clear and mostly cloudy to overcast	Moderate winds	BLT-1, 6, 7, 11, 15, 17, 19A
March 24	-4-1°C. Clear and partly cloudy	Light winds	BLT-22, 23, 26, 28, 32, 37, 43A
April 13	2-10°C. Clear with light cloud cover	Light winds	BLT-1, 6, 7, 11, 15, 17, 22, 23, 26, 28, 32, 37, 43A, BLT-NEW
April 18	3-7°C. Clear and partly cloudy	Light winds	BLT-1, 6, 7, 11, 15, 17, BLT-NEW
April 20	4-7°C. Clear with light cloud cover	Light to moderate winds	BLT-22, 23, 28, 32, 37, 43A
April 25	3-6°C. Clear and mostly cloudy to overcast	Light winds	BLT-1, 6, 7, 11, 15, 17, BLT-NEW
April 28	1-6°C. Light fog to clear and overcast	Light winds	BLT-22, 23, 28, 32, 37, 43A, BLT-NEW
May 4	0-13°C. Clear and lightly to mostly cloudy	Light winds	BLT-1, 6, 7, 11, 15, 17, 19A
May 6	-1-3°C. Clear with no cloud cover	Light winds	BLT-22, 23, 28, 32, 37, 43A, BLT-NEW
May 16	7-8°C. Light fog to clear and overcast	Light winds	BLT-1, 6, 7, 17, 22, 23, 26, 28, 32, 37, 43A
May 20	9-10°C. Clear and mostly cloudy	Light winds	BLT-11, 15, 19A
May 24	5-8°C. Clear and partly cloudy	Light winds	BLT-22, 23, 26, 28, 32, 37, 43A
May 25	3-6°C. Clear with light cloud cover	No to light winds	BLT-1, 6, 7, 11, 17, 19A
Fall 2022			
August 25	17-18°C. Light fog to clear and partly cloudy to overcast	Light to moderate winds	BLT-22, 23, 26, 28, 32, 37, 43A, 52
August 26	15-17°C. Clear and partly cloudy	Light winds	BLT-1, 6, 7, 11, 15, 17, 27, 30, 54, 55
August 29	12-20°C. Clear with little cloud cover	Light winds	BLT-22, 23, 26, 28, 32, 37, 43A, 52
August 30	10-18°C. Clear and mostly cloudy to overcast	No to light winds	BLT-1, 7, 11, 15, 27, 30, 55



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

**Table 2.2 Summary of Environmental Conditions During Stopover Migration
Transect Surveys**

Date	Temperature and Visibility	Relative Wind Speed and Direction	Completed Transects
September 7	9-13°C. Clear with little cloud cover	Light winds	BLT-22, 23, 26, 28, 32, 37, 43A, 52
September 8	13-20°C. Clear and partly cloudy to overcast.	Light winds	BLT-1, 11, 15, 17, 27, 30, 55
September 11	15-20°C. Clear and partly cloudy	Light winds	BLT-22, 23, 26, 28, 32, 37, 43A, 52, 54
September 13	15-20°C. Clear and partly cloudy	Light winds	BLT-1, 6, 7, 11, 17, 27, 30, 55

2.2 DIURNAL RAPTOR PASSAGE MONITORING SURVEYS

Raptor watch count surveys targeting migrating raptors were completed at points of high elevation during fall of 2021 and 2022 (Figure 1). Diurnal raptor passage monitoring surveys were conducted on two separate days (at two different locations) during the fall of 2021 and three separate days (at one location) in fall of 2022 (Table 2.3). These surveys were conducted under suitable environmental conditions including no precipitation and good visibility.

**Table 2.3 Summary of Environmental Conditions during Diurnal Raptor Passage
Monitoring Surveys**

Date	Temperature and Visibility	Relative Windspeed and Direction	Site Surveyed	Location
November 1, 2021	14°C and clear	Light to moderate southwest winds	BLRW-1	In Project Boundary
November 2, 2021	8-10°C and clear	Light northwest winds	BLRW-1	In Project Boundary
November 4, 2021	8-10°C and clear	Light northwest winds	BLRW-1	In Project Boundary
October 20, 2022	12-13°C and clear	Light north winds	BLRW-2	In Assessment Area
October 21, 2022	13-14°C and clear	Light to moderate north winds	BLRW-3	In Project Boundary
November 3, 2022	9-12°C and clear	Light to moderate north winds	BLRW-1	In Project Boundary

Surveys were carried out between approximately 11:00 and 14:00 each day, when conditions for the creation of thermals which allow thermal soaring are more prevalent and migratory raptor movements are most visible. Using binoculars and a spotting scope, the surveyor scanned for birds in flight from all visible directions. Information collected during this survey included environmental data, observations of migrating birds, and behavioral data including relative flight height and direction of travel.



3.0 RESULTS

3.1 STOPOVER MIGRATION SURVEYS

In general, the bird species noted during the 2021 and 2022 migration monitoring period were expected for the environments sampled and are typical of the habitat types found in the Western Ecoregion of Nova Scotia.

3.1.1 Spring Migration

Spring stopover migration monitoring was completed from March 23 through May 25, 2022. Not including individuals not identified to species level, the surveys identified 1,586 individual birds representing 65 species (Table 3.1). Relative abundance was calculated for each observed species; this is a measure of the proportion of each when compared with the total number of birds observed.

Table 3.1 Species Diversity and Relative Abundance, Spring Stopover Migration Transect Surveys

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
Canada goose	<i>Branta canadensis</i>	Waterfowl	2 (1)	0.13 (0.08)
mallard	<i>Anas platyrhynchos</i>	Waterfowl	1 (1)	0.06 (0.08)
ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	9 (9)	0.56 (0.68)
spruce grouse	<i>Falciennis canadensis</i>	Gamebirds	2 (1)	0.13 (0.08)
mourning dove	<i>Zenaida macroura</i>	Landbirds	5 (5)	0.31 (0.38)
ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	2 (2)	0.13 (0.15)
turkey vulture	<i>Cathartes aura</i>	Raptors	1 (1)	0.06 (0.08)
broad-winged hawk	<i>Buteo platypterus</i>	Raptors	1 (1)	0.06 (0.08)
red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	3 (3)	0.19(0.23)
belted kingfisher	<i>Megaceryle alcyon</i>	Landbirds	1 (1)	0.06 (0.08)
yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	8 (8)	0.5 (0.60)
downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	7 (7)	0.44 (0.53)
hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	8 (8)	0.5 (0.60)
northern flicker	<i>Colaptes auratus</i>	Landbirds	42 (40)	2.63 (3.01)
pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1 (1)	0.06 (0.08)
American kestrel	<i>Falco sparverius</i>	Raptors	1 (1)	0.06 (0.08)
olive-sided flycatcher	<i>Contopus cooperi</i>	Landbirds	2 (2)	0.13 (0.15)
yellow-bellied flycatcher	<i>Empidonax flaviventris</i>	Landbirds	1 (1)	0.06 (0.08)



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA

**Table 3.1 Species Diversity and Relative Abundance, Spring Stopover Migration
Transect Surveys**

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
alder flycatcher	<i>Empidonax alnorum</i>	Landbirds	1 (1)	0.06 (0.08)
least flycatcher	<i>Empidonax minimus</i>	Landbirds	8 (8)	0.5 (0.60)
eastern phoebe	<i>Sayornis phoebe</i>	Landbirds	1 (1)	0.06 (0.08)
blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	14 (14)	0.88 (1.06)
Philadelphia vireo	<i>Vireo philadelphicus</i>	Landbirds	1 (1)	0.06 (0.08)
red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	8 (8)	0.5 (0.60)
Canada jay	<i>Perisoreus canadensis</i>	Landbirds	10 (7)	0.63 (0.53)
blue jay	<i>Cyanocitta cristata</i>	Landbirds	44 (35)	2.76 (2.64)
American crow	<i>Corvus brachyrhynchos</i>	Landbirds	16 (11)	1 (0.83)
common raven	<i>Corvus corax</i>	Landbirds	23 (18)	1.44 (1.36)
black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	204 (107)	12.77 (8.06)
boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	7 (6)	0.44 (0.45)
red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	58 (51)	3.63 (3.84)
brown creeper	<i>Certhia americana</i>	Landbirds	2 (2)	0.13 (0.15)
winter wren	<i>Troglodytes hiemalis</i>	Landbirds	35 (35)	2.19 (2.64)
golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	66 (57)	4.13 (4.30)
ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	11 (11)	0.69 (0.83)
Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	6 (6)	0.38 (0.45)
hermit thrush	<i>Catharus guttatus</i>	Landbirds	78 (75)	4.88 (5.65)
American robin	<i>Turdus migratorius</i>	Landbirds	43 (36)	2.69 (2.71)
purple finch	<i>Haemorhous purpureus</i>	Landbirds	57 (51)	3.57 (3.84)
red crossbill	<i>Loxia curvirostra</i>	Landbirds	3 (2)	0.19 (0.15)
white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	13 (2)	0.81 (0.15)
pine siskin	<i>Spinus pinus</i>	Landbirds	8 (2)	0.5 (0.15)
American goldfinch	<i>Spinus tristis</i>	Landbirds	18 (18)	1.13 (1.28)
chipping sparrow	<i>Spizella passerina</i>	Landbirds	2 (2)	0.13 (0.15)
dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	161 (118)	10.08 (8.89)
white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	74 (71)	4.63 (5.35)
swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	17 (17)	1.06 (1.28)
red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	2 (2)	0.13 (0.15)
common grackle	<i>Quiscalus quiscula</i>	Landbirds	13 (8)	0.81 (0.60)
ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	66 (45)	4.13 (3.39)



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA

Table 3.1 Species Diversity and Relative Abundance, Spring Stopover Migration Transect Surveys

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
northern waterthrush	<i>Parkesia noveboracensis</i>	Landbirds	3 (3)	0.19 (0.23)
black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	43 (42)	2.69 (3.17)
Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	13 (12)	0.81 (0.90)
common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	38 (35)	2.38 (2.64)
American redstart	<i>Setophaga ruticilla</i>	Landbirds	9 (9)	0.56 (0.68)
Cape May warbler	<i>Setophaga tigrina</i>	Landbirds	1 (1)	0.06 (0.08)
northern parula	<i>Setophaga americana</i>	Landbirds	14 (14)	0.88 (1.06)
magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	57 (53)	3.57 (3.99)
blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	3 (3)	0.19 (0.23)
chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	2 (2)	0.13 (0.15)
black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	5 (4)	0.31 (0.30)
palm warbler	<i>Setophaga palmarum</i>	Landbirds	88 (81)	5.51 (6.10)
yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	97 (91)	6.07 (6.86)
black-throated green warbler	<i>Setophaga virens</i>	Landbirds	42 (42)	2.63 (3.17)
Canada warbler	<i>Cardellina canadensis</i>	Landbirds	4 (4)	0.25 (0.03)
unidentified passerine	n/a	Landbirds	11 (11)	0.69 (0.83)

Note: SAR are presented in **bold** text

Two of the species observed during the spring migration surveys are SAR: olive-sided flycatcher and Canada warbler. Seven SOCC were also observed: turkey vulture, American kestrel, Philadelphia vireo, Canada jay, boreal chickadee, pine siskin, and Cape May warbler.

The most abundant species observed during spring migration were black-capped chickadee (204 individuals, 12.77% relative abundance), yellow-rumped warbler (97 individuals, 6.07% relative abundance), and palm warbler (88 individuals, 5.51% relative abundance). The three most commonly observed species included black-capped chickadee (8.06% of observations), dark-eyed junco (8.89% of observations), and yellow-rumped warbler (6.86% of observations). The largest single observation of a group of birds was of 21 ovenbirds seen flying over transect BLT-26 on May 24, 2022.

Surveys in March, which were completed over two survey days, produced records of 14 species, and total abundance was 122 individuals. Surveys in April carried out over five survey days produced records of 35 species, and total abundance of 448 individuals. Surveys completed in May over six survey days produced records of 59 species, and total abundance of 1,027 individuals.



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Information on the flight height of resident and migrant birds observed during the stopover transect surveys was collected opportunistically and may complement flight height data gathered during nocturnal migration radar studies. Different bird groups demonstrate differences in potential sensitivity to the presence of wind turbines (Kingsley and Whittam 2004). The data on migration have therefore been summarized according to seven bird groups: landbirds (including most passerines), waterfowl (including ducks and geese), waterbirds (including herons, gulls, and cormorants), shorebirds (including plovers and sandpipers), raptors (including hawks, falcons, eagles, and for the purposes of this summary, vultures), owls, and gamebirds (including grouse), as indicated in Table 3.1.

Table 3.2 summarizes the flying heights of the bird groups observed during the stopover migration transect surveys. These values include birds that were not identified to species but were successfully identified to bird group. Birds observed within 10 m of the ground were considered at Low (L) level, those from 10 to 60 m of the ground were considered to be at Medium (M) level, those flying between 60-120 m above ground were considered to be at High (H) level, and those above 120 m above ground were considered to be at Very High (VH) height.

Table 3.2 Relative Heights of Birds Observed during Spring Stopover Migration Transect Surveys

Bird Group	Height ¹				N ²
	L	M	H	VH	
Gamebirds	100 (100)	-	-	-	10 (11)
Landbirds	98.09 (97.91)	1.91 (2.09)	-	-	1,309 (1,577)
Raptors	66.67 (66.67)	33.33 (33.33)	-	-	6 (6)
Waterfowl	-	100.00	-	-	2 (3)
Total	97.81	2.19 (2.38)	-	-	1327 (1,597)
Notes:					
1	Data presented are percentage of observations (percentage of individual birds) observed in each area. L=<10m; M=10-60m; H=60-120m; VH=>120m				
2	Total number of observations (total number of individual birds).				

Landbirds dominated the observations, and most (over 97%) were observed foraging or flying within 10 m of the ground. Two observations of three individual raptors were made, with all individuals being observed between 10 and 60 m above ground level. Gamebird observations were typically of foraging or territorial displays of the same individuals through the spring period.

Over 97% of individual birds were observed within 10 m of the ground. None of the 1,597 birds recorded during the spring surveys were observed flying above 60 m from the ground.

3.1.2 Fall Migration

Fall stopover migration monitoring was completed from September 17 through October 22, 2021, and August 25 through September 13, 2022. Excluding individuals not identified to species level, the surveys identified 2,593 individual birds representing 73 species (Table 3.3)



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA

**Table 3.3 Species Diversity and Relative Abundance, Fall Stopover Migration
Transect Surveys**

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
Canada goose	<i>Branta canadensis</i>	Waterfowl	16 (3)	0.6 (0.20)
hooded merganser	<i>Lophodytes cucullatus</i>	Waterfowl	1 (1)	0.04 (0.07)
ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	5 (5)	0.19 (0.33)
spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	12 (9)	0.45 (0.60)
mourning dove	<i>Zenaida macroura</i>	Landbirds	2 (2)	0.07 (0.13)
black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	Landbirds	2 (2)	0.07 (0.13)
common nighthawk	<i>Chordeiles minor</i>	Landbirds	1 (1)	0.04 (0.07)
ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	4 (4)	0.15 (0.27)
American woodcock	<i>Scolopax minor</i>	Gamebirds	1 (1)	0.04 (0.07)
solitary sandpiper	<i>Tringa solitaria</i>	Shorebirds	4 (3)	0.15 (0.20)
herring gull	<i>Larus argentatus</i>	Waterbirds	1 (1)	0.04 (0.07)
common loon	<i>Gavia immer</i>	Waterfowl	1 (1)	0.04 (0.07)
double-crested cormorant	<i>Phalacrocorax auritus</i>	Waterbirds	1 (1)	0.04 (0.07)
sharp-shinned hawk	<i>Accipiter striatus</i>	Raptors	2 (2)	0.07 (0.13)
northern goshawk	<i>Accipiter gentilis</i>	Raptors	1 (1)	0.04 (0.07)
broad-winged hawk	<i>Buteo platypterus</i>	Raptors	1 (1)	0.04 (0.07)
red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	4 (4)	0.15 (0.27)
barred owl	<i>Strix varia</i>	Owls	2 (2)	0.07 (0.13)
belted kingfisher	<i>Megaceryle alcyon</i>	Landbirds	1 (1)	0.04 (0.07)
yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1 (1)	0.04 (0.07)
black-backed woodpecker	<i>Picoides arcticus</i>	Landbirds	1 (1)	0.04 (0.07)
downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	12 (11)	0.45 (0.74)
hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	15 (15)	0.56 (1.00)
northern flicker	<i>Colaptes auratus</i>	Landbirds	45 (38)	1.68 (2.55)
pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	13 (13)	0.48 (0.87)
merlin	<i>Falco columbarius</i>	Raptors	1 (1)	0.04 (0.07)
yellow-bellied flycatcher	<i>Empidonax flaviventris</i>	Landbirds	1 (1)	0.04 (0.07)
blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	38 (29)	1.42 (1.94)
red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	25 (19)	0.93 (1.27)
Canada jay	<i>Perisoreus canadensis</i>	Landbirds	28 (16)	1.04 (1.07)
blue jay	<i>Cyanocitta cristata</i>	Landbirds	140 (91)	5.22 (6.10)
American crow	<i>Corvus brachyrhynchos</i>	Landbirds	14 (9)	0.52 (0.60)



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA

**Table 3.3 Species Diversity and Relative Abundance, Fall Stopover Migration
Transect Surveys**

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
common raven	<i>Corvus corax</i>	Landbirds	26 (24)	0.97 (1.61)
black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	339 (142)	12.64 (9.51)
boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	5 (3)	0.19 (0.20)
red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	164 (112)	6.11 (7.50)
white-breasted nuthatch	<i>Sitta carolinensis</i>	Landbirds	2 (1)	0.07 (0.07)
brown creeper	<i>Certhia americana</i>	Landbirds	18 (15)	0.67 (1.00)
winter wren	<i>Troglodytes hiemalis</i>	Landbirds	9 (7)	0.34 (0.47)
golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	149 (83)	5.56 (5.56)
ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	8 (7)	0.3 (0.47)
Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	4 (3)	0.15 (0.20)
hermit thrush	<i>Catharus guttatus</i>	Landbirds	26 (24)	0.97 (1.61)
American robin	<i>Turdus migratorius</i>	Landbirds	129 (53)	4.81 (3.55)
cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	49 (19)	1.83 (1.27)
purple finch	<i>Haemorhous purpureus</i>	Landbirds	101 (64)	3.77 (4.29)
red crossbill	<i>Loxia curvirostra</i>	Landbirds	52 (21)	1.94 (1.41)
white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	89 (15)	3.32 (1.00)
pine siskin	<i>Spinus pinus</i>	Landbirds	2 (2)	0.07 (0.13)
American goldfinch	<i>Spinus tristis</i>	Landbirds	21 (16)	0.78 (1.07)
chipping sparrow	<i>Spizella passerina</i>	Landbirds	1 (1)	0.04 (0.07)
dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	324 (130)	12.08 (8.71)
white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	47 (37)	1.75 (2.48)
song sparrow	<i>Melospiza melodia</i>	Landbirds	8 (6)	0.3 (0.40)
swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	24 (18)	0.89 (1.21)
red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	14 (3)	0.52 (0.20)
ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	4 (3)	0.15 (0.20)
black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	37 (30)	1.38 (2.01)
Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	3 (3)	0.11 (0.20)
common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	70 (47)	2.61 (3.15)
American redstart	<i>Setophaga ruticilla</i>	Landbirds	2 (2)	0.07 (0.13)
Cape May warbler	<i>Setophaga tigrina</i>	Landbirds	1 (1)	0.04 (0.07)
northern parula	<i>Setophaga americana</i>	Landbirds	10 (7)	0.37 (0.47)
magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	19 (14)	0.71 (0.94)



**AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE,
NOVA SCOTIA**

**Table 3.3 Species Diversity and Relative Abundance, Fall Stopover Migration
Transect Surveys**

Common Name	Scientific Name	Bird Group	Total	
			Abundance - Individuals (Observations)	Relative Abundance - %Individuals (%Observations)
bay-breasted warbler	<i>Setophaga castanea</i>	Landbirds	3 (2)	0.11 (0.13)
blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	2 (1)	0.07 (0.07)
chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	4 (2)	0.15 (0.13)
blackpoll warbler	<i>Setophaga striata</i>	Landbirds	17 (15)	0.63 (1.00)
black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	5 (4)	0.19 (0.27)
palm warbler	<i>Setophaga palmarum</i>	Landbirds	130 (63)	4.85 (4.22)
yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	219 (116)	8.17 (7.77)
black-throated green warbler	<i>Setophaga virens</i>	Landbirds	55 (37)	2.05 (2.48)
Canada warbler	<i>Cardellina canadensis</i>	Landbirds	5 (3)	0.19 (0.20)
unidentified passerine	na	Landbirds	88 (46)	3.28 (3.08)
unidentified raptor	na	Raptors	1 (1)	0.04 (0.07)

Note: SAR are presented in **bold** text

Two of the species observed during the fall migration surveys were SAR: common nighthawk and Canada warbler. Six SOCC were also observed: black-billed cuckoo, Canada jay, boreal chickadee, pine siskin, Cape May warbler, and blackpoll warbler.

The most abundant species observed during fall migration were black-capped chickadee (339 individuals, 12.64% relative abundance), dark-eyed junco (324 individuals, 12.08% relative abundance) and yellow-rumped warbler (219 individuals, 8.17% relative abundance). These three species were also the most frequently detected species.

The largest single observation of a group of birds was of 40 white-winged crossbills seen flying at medium height over transect BLT-19 on October 15, 2021.

Surveys in August, completed over four survey days, produced records of 592 birds representing 52 species, and an additional 27 unidentified passerine individuals. Surveys completed in September over eight total survey days (five in 2021 and four in 2022) produced records of 1,354 birds representing 59 species. Surveys in October, completed over six survey days, produced records of 694 birds representing 32 species.

As with the spring data, the fall stopover migration data have been summarized according to seven bird groups as indicated in Table 3.3. The flying heights of these bird groups observed during the fall stopover migration transect surveys are summarized in Table 3.4. The height categories presented are the same as shown for the spring migration data.



Table 3.4 Relative Heights of Birds Observed during Fall Stopover Migration Transect Surveys

Bird Group	Height ¹				N ²
	L	M	H	VH	
Gamebirds	100.00 (100.00)	-	-	-	15 (18)
Landbirds	93.00 (89.00)	6.66 (9.55)	0.34 (0.65)	-	1,457 (2,628)
Owls	100.00 (100.00)	-	-	-	2 (2)
Raptors	90.00 (90.00)	10.00 (10.00)	-	-	10 (10)
Shorebirds	100.00 (100.00)	-	-	-	3 (4)
Waterbirds	-	100.00 (100.00)	-	-	2 (2)
Waterfowl	80.00 (44.44)	20.00 (55.56)	-	-	5 (18)
Total	92.91 (89.53)	6.76 (9.84)	0.33 (0.63)	-	1,495 (2,683)
Notes:					
1	Data presented are percentage of observations (percentage of individual birds) observed in each area. L = <10m; M = 10-60m; H = 60-120m; VH = >120				
2	Total number of observations (total number of individual birds).				

A greater number and variety of birds were observed during fall migration, and landbirds dominated the observations, with most (93% of observations) observed within 10 m of the ground. Most birds (over 89% of individual birds) were observed within 10 m of the ground. Only a few (0.63%) of individual birds were observed between 60-120 m of the ground and none were observed flying greater than 120 m from the ground.

3.2 DIURNAL RAPTOR PASSAGE MONITORING SURVEYS

Raptors were observed in low numbers. Seven raptor species were observed during the survey on October 20, 2022 (Table 3.5). One of the species, peregrine falcon (*Falco peregrinus*) is a SAR. Bald eagle (*Haliaeetus leucocephalus*) and peregrine falcon were not observed during the stopover migration monitoring surveys.



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table 3.5 Raptor Species Observed during Diurnal Raptor Passage Monitoring Surveys

Survey Date	Raptor Species	Scientific Name	Number Observed	Distance and Direction from Observer	Behaviour	Highest Flight Height	Direction of Travel
1-Nov-21	bald eagle	<i>Haliaeetus leucocephalus</i>	3	3 km, west	Soaring	H	North
1-Nov-21	red-tailed hawk	<i>Buteo jamaicensis</i>	2	0-30 m, west	Soaring	H	South
1-Nov-21	broad-winged hawk	<i>Buteo platypterus</i>	1	300 m, north	Soaring	H	North
4-Nov-21	bald eagle	<i>Haliaeetus leucocephalus</i>	6	200-800 m, east through west	Soaring	H	Northeast through southwest
4-Nov-21	northern goshawk	<i>Accipiter gentilis</i>	1	100 m, south	Flying	M	Northwest
4-Nov-21	red-tailed hawk	<i>Buteo jamaicensis</i>	2	1 km, south	Soaring	H	Southeast through southwest
20-Oct-22	bald eagle	<i>Haliaeetus leucocephalus</i>	8	0.5-2 km, north through west	Soaring	H	North through west
20-Oct-22	peregrine falcon	<i>Falco peregrinus</i>	1	500 m	Flying	M	West
20-Oct-22	red-tailed hawk	<i>Buteo jamaicensis</i>	4	1-2 km	Soaring	H	Southeast through west
20-Oct-22	sharp-shinned hawk	<i>Accipiter striatus</i>	1	1 km	Soaring	M	South
21-Oct-22	bald eagle	<i>Haliaeetus leucocephalus</i>	2	1-1.5 km	Soaring	H	Southwest
21-Oct-22	peregrine falcon	<i>Falco peregrinus</i>	1	500 m	Flying	M	West
21-Oct-22	red-tailed hawk	<i>Buteo jamaicensis</i>	1	1 km	Hunting	M	Local
3-Nov-22	bald eagle	<i>Haliaeetus leucocephalus</i>	4	1-3 km, north through southeast	Soaring	H	North through west
3-Nov-22	northern goshawk	<i>Accipiter gentilis</i>	2	1-2 km, North through east	Soaring	H	East through southeast
3-Nov-22	red-tailed hawk	<i>Buteo jamaicensis</i>	3	1.5-2 km	Soaring	H	North through west
3-Nov-22	sharp-shinned hawk	<i>Accipiter striatus</i>	2	0.5-1 km	East and northwest	M	East and south

Notes
 L = <10m; M = 10-60m; H = 60-120m; VH = >120m from ground level
 SAR are presented in **bold** text



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Bald eagle and red-tailed hawk were the most abundant and commonly observed species. Raptors noted during the surveys were flying at or above 10 m from the ground, with most of the species observed flying at 60-120 m from the ground (high height). Raptors were observed singly or in small (fewer than three) groups. No large kettles of raptors were observed.

Although not raptors, one notable observation of a large group (approximately 100 individuals) of unidentified gulls was made on October 20, 2022. The birds were soaring at high height, moving west.

The relatively low numbers of raptors and small groups observed during the 2021/2022 monitoring program are generally consistent with results obtained during a diurnal passage migration monitoring study performed near the Project in 2012 in support of a nearby wind development, located approximately 6 km west of the Project (Oxford Frozen Foods, Minas Basin Pulp and Power, Nova Scotia Power Incorporated, 2012). This study completed multiple surveys throughout September and October and recorded low numbers of migrating raptors migrating through the area.

3.3 SPECIES AT RISK AND SPECIES OF CONSERVATION CONCERN

Four SAR and nine SOCC were observed during the spring and fall migration monitoring periods (Table 3.6). SAR are discussed in more detail below.

Common nighthawk is a medium-sized aerial insectivore which nests in all of the provinces and territories in Canada except Nunavut. It is listed as *threatened* under Schedule 1 of the SARA and the NS ESA. Common nighthawk utilize a wide range of open, vegetation-free habitats for nesting including recently harvested forests, burned-over areas, logged areas, grasslands, pastures, and gravel roofs (Government of Canada 2022). Critical habitat has not been identified for this species.

Peregrine falcon is one of the most widely distributed of warm-blooded terrestrial vertebrates, occurring on every continent except Antarctica. The *anatum/tundrius* subspecies, which is found in Nova Scotia, is listed as *vulnerable* under the NS ESA. This species typically migrates along coasts because they coincide with the migration of preferred prey (other bird) species, though some migrate through the interior. This species breeds in a wide variety of habitats and depends on cliffs or buildings for nesting and open landscapes for foraging. Most nesting of the *anatum/tundrius* sub species occurs on cliffs along large river systems and fewer on large buildings bridges or other structures (Government of Canada 2022). Critical habitat has not been identified for this species.

Olive-sided flycatcher is a medium-sized passerine listed as *threatened* under Schedule 1 of the SARA and as *threatened* under the NS ESA. This species breeds throughout much of forested Canada and is most often associated with forest openings containing tall trees or snags for perching (Government of Canada 2022). Generally, forest habitat is either coniferous or mixed coniferous. Suitable habitat often occurs near wetland areas. Critical habitat has not yet been established for this species.

Canada warbler is listed as *threatened* under Schedule 1 of the SARA and *endangered* under the NS ESA. During the breeding season, 85% of the global breeding population can be found in Canada. This species breeds across the southeastern parts of the country and can be found in every province and territory, with the exceptions of Newfoundland and Labrador, and Nunavut. They can primarily be found nesting in areas with wet, mixed deciduous-coniferous forest that include a well-developed shrub layer (Government of Canada 2022). Critical habitat has not yet been identified for this species.



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table 3.6 SAR and SOCC Observed during the 2021/2022 Migration Monitoring Periods

Bird Group	Common Name	Scientific Name	Number Observed (Fall Migration)	Number Observed (Spring Migration)	SARA Rank	COSEWIC Rank	NSESA Rank	AC CDC Rank
Landbirds	black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	2	-	-	-	-	S3B
Landbirds	common nighthawk	<i>Chordeiles minor</i>	1	-	Threatened	Special Concern	Threatened	S3B
Raptors	turkey vulture	<i>Cathartes aura</i>	-	1	-	-	-	-
Raptors	American kestrel	<i>Falco sparverius</i>	-	1	-	-	-	-
Raptors	peregrine falcon	<i>Falco peregrinus anatum/tundrius</i>	2	-	Special Concern	Not at Risk	-	S1B,SUM
Landbirds	olive-sided flycatcher	<i>Contopus cooperi</i>	-	2	Threatened	Special Concern	Threatened	S3B
Landbirds	Philadelphia vireo	<i>Vireo philadelphicus</i>	-	1	-	-	-	-
Landbirds	Canada jay	<i>Perisoreus canadensis</i>	28	10	-	-	-	S3
Landbirds	boreal chickadee	<i>Poecile hudsonicus</i>	5	7	-	-	-	S3
Landbirds	pine siskin	<i>Spinus pinus</i>	2	8	-	-	-	S3
Landbirds	Cape May warbler	<i>Setophaga tigrina</i>	1	1	-	-	-	S3B,SUM
Landbirds	blackpoll warbler	<i>Setophaga striata</i>	17	-	-	-	-	S3B,S5M
Landbirds	Canada warbler	<i>Cardellina canadensis</i>	5	4	Threatened	Special Concern	Endangered	S3B

Note: SAR are presented in **bold** text



4.0 SUMMARY

More apparent migration activity was observed during the fall periods than during spring. Most birds recorded during the 2021/2022 surveys were observed singly or in small (fewer than 10) groups. Most birds were landbirds (typically passerines); of these over 89% were recorded within 10 m of the ground, and most appeared to be locally breeding birds. No large concentrations of stopover migrant passerines were observed during the spring and fall migration surveys, suggesting the area may not be an important stopover location for migrating passerines. Except for the large group of unidentified gulls recorded during a diurnal raptor passage survey in October 2022, shorebirds, waterbirds, and waterfowl were observed in very low numbers, and the Project Boundary provides proportionally little potential stopover habitat for these groups. Similarly, and consistent with past nearby studies, relatively small numbers of migrating raptors were noted, suggesting the area may not be a location of substantial diurnal raptor movement during fall migration.

5.0 CLOSURE

The information presented in this report represents the best technical judgment of Stantec based on information provided by NSPI and the data obtained from the work. Conclusions are based on site conditions observed by Stantec at the time the work was performed at the specific survey locations and cannot be extrapolated to other areas around these locations.



AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

6.0 REFERENCES

Atlantic Canada Conservation Data Centre (AC CDC). 2023. Understanding Ranks. Available online: <http://accdc.com/en/rank-definitions.html>. Last accessed: March 3, 2023.

Environment Canada. 2007a. Wind Turbines and Birds – A Guidance Document for Environmental Assessment. April 2007.

Environment Canada. 2007b. Recommended protocols for Monitoring Impacts of Wind turbines on Birds. April 2007.

Government of Canada. 2022. Species at Risk Public Registry. Available online: <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry.html>. Last accessed: October 21, 2022.

Kingsley, A. and B. Whittam. 2005. Wind Turbines and Birds: A Background Review for Environmental Assessment. Draft report for Environment Canada, Canadian Wildlife Service, Quebec. 81 pp. Available online: <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.172.1664&rep=rep1&type=pdf>. Last accessed: March 3, 2023.

NSDNR (Nova Scotia Department of Natural Resources). 2017. Ecological Land Classification for Nova Scotia. Prepared by P. Neily, S. Basquill, E. Quigley and K. Keys. Available online: <https://novascotia.ca/natr/forestry/ecological/pdf/Ecological-Land-Classification-guide.pdf>. Last accessed: October 25, 2022.

Oxford Frozen Foods, Minas Basin Pulp and Power, Nova Scotia Power Incorporated. 2012. South Canoe Wind Power Project, Environmental Assessment Registration Document. May 17, 2012. Available online: <https://novascotia.ca/nse/ea/south-canoe-wind-power-project.asp>. Last accessed: December 15, 2022.

\\ca0213-ppfss01\work_group\1214\active\121417191\05_report_deliverable\deliverable\20230202_draft_report_updates\dft_rpt_121417191_nspi_bl_birdmigration_20230123_grg_lm_comments.docx



APPENDIX A

Survey Data

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/17/2021	BLT-9	barred owl	<i>Strix varia</i>	Owls	1	100	Calling	Low	n/a
9/17/2021	BLT-9	hermit thrush	<i>Catharus guttatus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-9	American robin	<i>Turdus migratorius</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-9	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-9	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-9	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-11	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-15	barred owl	<i>Strix varia</i>	Owls	1	n/a	Calling	Low	n/a
9/17/2021	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	8	n/a	Calling	Low	n/a
9/17/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	50	flyover	Medium	Northwest
9/17/2021	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	9	n/a	flyover	Low	West
9/17/2021	BLT-15	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-15	unidentified warbler	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-3	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-3	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
9/17/2021	BLT-3	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-3	unidentified warbler	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-7	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-7	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/17/2021	BLT-7	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-7	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	5	n/a	Calling	Low	n/a
9/17/2021	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	5	n/a	Calling	Low	n/a
9/17/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	50	Calling	Low	n/a
9/17/2021	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-6	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-6	unidentified warbler	n/a	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-6	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Calling	Low	n/a
9/17/2021	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/17/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	7	n/a	Calling	Low	n/a
9/17/2021	BLT-19	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-19	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/17/2021	BLT-19	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-30	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	4	n/a	Calling	Low	n/a
9/18/2021	BLT-30	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-30	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-30	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	n/a
9/18/2021	BLT-30	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	3	n/a	Calling	Low	n/a
9/18/2021	BLT-30	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	7	n/a	Calling	Low	n/a
9/18/2021	BLT-30	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-31	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	7	n/a	Calling	Low	n/a
9/18/2021	BLT-31	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-31	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-31	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-25	no birds observed	n/a	Landbirds	0	n/a	n/a	n/a	n/a
9/18/2021	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	flyover	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/18/2021	BLT-22	unidentified warbler	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	n/a	Calling	Low	n/a
9/18/2021	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/18/2021	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-22	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
9/18/2021	BLT-26	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	50	flyover	Low	n/a
9/18/2021	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-26	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	3	n/a	flyover	Low	n/a
9/18/2021	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-26	common raven	<i>Corvus corax</i>	Landbirds	1	100	Calling	Low	n/a
9/18/2021	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	n/a
9/18/2021	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	50	Calling	Low	n/a
9/18/2021	BLT-23	unidentified warbler	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
9/18/2021	BLT-28	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	50	Calling	Low	n/a
9/18/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-28	unidentified warbler	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-28	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	50	Calling	Low	n/a
9/18/2021	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-32	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	unidentified warbler	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/18/2021	BLT-37	unidentified warbler	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	3	n/a	Calling	Low	n/a
9/18/2021	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
9/18/2021	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a
9/18/2021	BLT-43	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-43	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-43	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-43	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	4	n/a	Calling	Low	n/a
9/18/2021	BLT-43	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/18/2021	BLT-43	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	2	n/a	Calling	Low	n/a
9/18/2021	BLT-43	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	n/a	flyover	Low	n/a
9/22/2021	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	40	Calling	Low	n/a
9/22/2021	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	10	Flyover	Low	South
9/22/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	20	Foraging	Low	n/a
9/22/2021	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Flyover	Low	Southwest
9/22/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	15	Foraging	Low	n/a
9/22/2021	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	4	5	Foraging	Low	n/a
9/22/2021	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	3	5	Foraging	Low	n/a
9/22/2021	BLT-7	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	15	Foraging	Low	n/a
9/22/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	5	Foraging	Low	n/a
9/22/2021	BLT-7	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	>100	Calling	Low	n/a
9/22/2021	BLT-7	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-7	brown creeper	<i>Certhia americana</i>	Landbirds	1	25	Calling	Low	n/a
9/22/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/22/2021	BLT-6	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	>100	Calling	Low	n/a
9/22/2021	BLT-6	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	2	80	Calling	Low	n/a
9/22/2021	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	20	Foraging	Low	n/a
9/22/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	5	Calling	Low	n/a
9/22/2021	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Calling	Low	n/a
9/22/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Calling	Low	n/a
9/22/2021	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	60	Calling	Low	n/a
9/22/2021	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Calling	Low	n/a
9/22/2021	BLT-6	chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	1	20	Foraging	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/22/2021	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Foraging	Low	n/a
9/22/2021	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Calling	Low	n/a
9/22/2021	BLT-6	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	50	Calling	Low	n/a
9/22/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	70	Calling	Low	n/a
9/22/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	80	Calling	Low	n/a
9/22/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-1	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Calling	Low	n/a
9/22/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	40	Calling	Low	n/a
9/22/2021	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	n/a
9/22/2021	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	10	Calling	Low	n/a
9/22/2021	BLT-1	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Calling	Low	n/a
9/22/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	60	Calling	Low	n/a
9/22/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Calling	Low	n/a
9/22/2021	BLT-3	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-3	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	30	Calling	Low	n/a
9/22/2021	BLT-3	merlin	<i>Falco columbarius</i>	Raptors	1	15	Flyover	Low	North
9/22/2021	BLT-3	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	50	Calling	Low	n/a
9/22/2021	BLT-3	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Flyover	Low	North
9/22/2021	BLT-3	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	n/a
9/22/2021	BLT-3	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	n/a
9/22/2021	BLT-3	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-3	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Calling	Low	n/a
9/22/2021	BLT-3	belted kingfisher	<i>Megaceryle alcyon</i>	Landbirds	1	60	Calling	Low	n/a
9/22/2021	BLT-9	brown creeper	<i>Certhia americana</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-9	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	n/a
9/22/2021	BLT-9	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-9	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	50	Calling	Low	n/a
9/22/2021	BLT-9	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	70	Calling	Low	n/a
9/22/2021	BLT-9	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-9	red crossbill	<i>Loxia curvirostra</i>	Landbirds	6	20	Flyover	Medium	West
9/22/2021	BLT-9	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-9	song sparrow	<i>Melospiza melodia</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-9	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	30	Flyover	Low	Southwest
9/22/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
9/22/2021	BLT-11	song sparrow	<i>Melospiza melodia</i>	Landbirds	1	15	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/22/2021	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	90	Calling	Low	n/a
9/22/2021	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	40	Calling	Low	n/a
9/22/2021	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	60	Calling	Low	n/a
9/22/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	50	Calling	Low	n/a
9/22/2021	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Flyover	Low	n/a
9/22/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	50	Calling	Low	n/a
9/22/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Flyover	Low	Southeast
9/22/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	20	Calling	Low	n/a
9/22/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	50	Calling	Low	n/a
9/22/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	30	Calling	Low	n/a
9/22/2021	BLT-15	brown creeper	<i>Certhia americana</i>	Landbirds	1	40	Calling	Low	n/a
9/22/2021	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	3	30	Flyover	Low	Southeast
9/22/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	n/a
9/22/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/22/2021	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	70	Calling	Low	n/a
9/22/2021	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	15	Foraging	Low	n/a
9/22/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	8	15	Foraging	Low	n/a
9/22/2021	BLT-17	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	3	15	Foraging	Low	n/a
9/22/2021	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	6	15	Foraging	Low	n/a
9/22/2021	BLT-17	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	15	Foraging	Low	n/a
9/22/2021	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	15	Foraging	Low	n/a
9/22/2021	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	4	15	Foraging	Low	n/a
9/22/2021	BLT-17	American robin	<i>Turdus migratorius</i>	Landbirds	1	10	Foraging	Low	n/a
9/22/2021	BLT-17	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	1	15	Foraging	Low	n/a
9/22/2021	BLT-17	chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	3	15	Foraging	Low	n/a
9/22/2021	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/22/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	n/a
9/22/2021	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	n/a
9/22/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	35	Foraging	Low	n/a
9/22/2021	BLT-19	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	25	Foraging	Low	n/a
9/22/2021	BLT-19	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	10	Foraging	Low	n/a
9/22/2021	BLT-19	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	60	Foraging	Low	n/a
9/22/2021	BLT-19	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	70	Foraging	Low	n/a
9/22/2021	BLT-19	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	10	Foraging	Low	n/a
9/23/2021	BLT-31	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	40	Singing	Low	n/a
9/23/2021	BLT-31	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	20	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/23/2021	BLT-31	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	30	Singing	Low	n/a
9/23/2021	BLT-31	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	25	Calling	Low	n/a
9/23/2021	BLT-31	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	n/a
9/23/2021	BLT-31	American robin	<i>Turdus migratorius</i>	Landbirds	1	70	Calling	Low	n/a
9/23/2021	BLT-31	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	>100	Calling	Low	n/a
9/23/2021	BLT-31	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	80	Calling	Low	n/a
9/23/2021	BLT-31	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
9/23/2021	BLT-30	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	30	Foraging	Low	n/a
9/23/2021	BLT-30	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	40	Calling	Low	n/a
9/23/2021	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	35	Calling	Low	n/a
9/23/2021	BLT-30	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	30	Foraging	Low	n/a
9/23/2021	BLT-30	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-30	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Calling	Low	n/a
9/23/2021	BLT-30	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Calling	Low	n/a
9/23/2021	BLT-30	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	40	Calling	Low	n/a
9/23/2021	BLT-30	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	15	Foraging	Low	n/a
9/23/2021	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	30	Calling	Low	n/a
9/23/2021	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-30	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-27	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	30	Calling	Low	n/a
9/23/2021	BLT-27	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-27	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-27	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	10	Calling	Low	n/a
9/23/2021	BLT-27	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	25	Foraging	Low	n/a
9/23/2021	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Calling	Low	n/a
9/23/2021	BLT-27	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Foraging	Low	n/a
9/23/2021	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	n/a
9/23/2021	BLT-27	American robin	<i>Turdus migratorius</i>	Landbirds	1	40	Calling	Low	n/a
9/23/2021	BLT-27	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	5	Foraging	Low	n/a
9/23/2021	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	70	Calling	Low	n/a
9/23/2021	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	n/a
9/23/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Calling	Low	n/a
9/23/2021	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	50	Calling	Low	n/a
9/23/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	n/a
9/23/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	20	Foraging	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/23/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	50	Calling	Low	n/a
9/23/2021	BLT-22	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	10	Calling	Low	n/a
9/23/2021	BLT-22	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	30	Calling	Low	n/a
9/23/2021	BLT-23	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	n/a
9/23/2021	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	30	Foraging	Low	n/a
9/23/2021	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Calling	Low	n/a
9/23/2021	BLT-23	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	3	50	Flyover	Medium	n/a
9/23/2021	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	n/a
9/23/2021	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	90	Calling	Low	n/a
9/23/2021	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Foraging	Low	n/a
9/23/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	n/a
9/23/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Flyover	Low	n/a
9/23/2021	BLT-28	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	n/a
9/23/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	30	Flyover	Low	n/a
9/23/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	n/a
9/23/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	35	Flyover	Low	n/a
9/23/2021	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
9/23/2021	BLT-32	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	70	Calling	Low	n/a
9/23/2021	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	n/a
9/23/2021	BLT-32	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	2	5	Calling	Low	n/a
9/23/2021	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	20	Foraging	Low	n/a
9/23/2021	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	n/a
9/23/2021	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	10	Foraging	Low	n/a
9/23/2021	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	90	Calling	Low	n/a
9/23/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	30	Foraging	Low	n/a
9/23/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Calling	Low	n/a
9/23/2021	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	30	Calling	Low	n/a
9/23/2021	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Singing	Low	n/a
9/23/2021	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/23/2021	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	40	Calling	Low	n/a
9/23/2021	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	n/a
9/23/2021	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Singing	Low	n/a
9/23/2021	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	n/a
9/23/2021	BLT-37	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	15	Foraging	Low	n/a
9/23/2021	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	40	Flyover	Low	n/a
9/23/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	7	10	Foraging	Low	n/a
9/23/2021	BLT-43	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
9/23/2021	BLT-43	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Calling	Low	n/a
9/23/2021	BLT-43	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	30	Foraging	Low	n/a
9/23/2021	BLT-43	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	10	Flyover	Low	n/a
9/23/2021	BLT-43	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Foraging	Low	n/a
9/23/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	n/a
9/23/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	5	Foraging	Low	n/a
9/23/2021	BLT-43	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	25	Calling	Low	n/a
9/23/2021	BLT-43	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	90	Calling	Low	n/a
9/23/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	70	Calling	Low	n/a
9/30/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	Local
9/30/2021	BLT-11	brown creeper	<i>Certhia americana</i>	Landbirds	1	20	Calling	Low	Local
9/30/2021	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	Local
9/30/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	Local
9/30/2021	BLT-11	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	7	n/a	Flyover	Medium	Southwest
9/30/2021	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Calling	Low	Local
9/30/2021	BLT-15	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	20	Calling	Low	Local
9/30/2021	BLT-15	brown creeper	<i>Certhia americana</i>	Landbirds	1	50	Flyover	Low	West
9/30/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	50	Flyover	Low	West
9/30/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Flyover	Low	West
9/30/2021	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	Local
9/30/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	Local
9/30/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
9/30/2021	BLT-15	American robin	<i>Turdus migratorius</i>	Landbirds	1	40	Calling	Low	Local
9/30/2021	BLT-15	song sparrow	<i>Melospiza melodia</i>	Landbirds	1	10	Calling	Low	Local
9/30/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Calling	Low	Local
9/30/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	Local
9/30/2021	BLT-15	spruce grouse	<i>Falciennis canadensis</i>	Gamebirds	1	n/a	Foraging	Low	Local
9/30/2021	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/30/2021	BLT-15	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	5	Calling	Low	Local
9/30/2021	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	100	Calling	Low	Local
9/30/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	10	Calling	Low	Local
9/30/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Calling	Low	Local
9/30/2021	BLT-1	red crossbill	<i>Loxia curvirostra</i>	Landbirds	5	n/a	Flyover	Medium	Southwest
9/30/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Foraging	Low	Local
9/30/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Medium	East
9/30/2021	BLT-1	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	3	n/a	Flyover	Medium	East
9/30/2021	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	West
9/30/2021	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	50	Calling	Low	Local
9/30/2021	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	Local
9/30/2021	BLT-6	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	3	10	Flyover	Medium	South
9/30/2021	BLT-7	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	20	Calling	Low	Local
9/30/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
9/30/2021	BLT-7	common raven	<i>Corvus corax</i>	Landbirds	1	100	Flyover	High	Southwest
9/30/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
9/30/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	30	Calling	Low	Local
9/30/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
9/30/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Calling	Low	Local
9/30/2021	BLT-7	chipping sparrow	<i>Spizella passerina</i>	Landbirds	1	50	Flyover	Low	East
9/30/2021	BLT-19	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Calling	Low	Local
9/30/2021	BLT-19	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	Local
9/30/2021	BLT-19	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	50	Calling	Low	Local
9/30/2021	BLT-19	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
9/30/2021	BLT-19	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	50	Calling	Low	Local
9/30/2021	BLT-19	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	5	Foraging	Low	Local
9/30/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	5	Calling	Low	Local
9/30/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	Local
10/1/2021	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	200	Calling	Low	Local
10/1/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
10/1/2021	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	10	Calling	Low	Local
10/1/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	5	Foraging	Low	Local
10/1/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	5	Foraging	Low	Local
10/1/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Flyover	Low	Local
10/1/2021	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local
10/1/2021	BLT-26	brown creeper	<i>Certhia americana</i>	Landbirds	1	10	Foraging	Low	Local
10/1/2021	BLT-26	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	25	Flyover	Medium	Northeast

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/1/2021	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
10/1/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	20	Calling	Low	Local
10/1/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	30	Flyover	Low	West
10/1/2021	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	50	Calling	Low	Local
10/1/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Medium	West
10/1/2021	BLT-26	brown creeper	<i>Certhia americana</i>	Landbirds	1	10	Calling	Low	Local
10/1/2021	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Calling	Low	Local
10/1/2021	BLT-23	unidentified raptor	<i>n/a</i>	Raptors	1	100	Flyover	Low	West
10/1/2021	BLT-28	red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	12	n/a	Flyover	Medium	South
10/1/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	3	25	Flyover	Medium	Local
10/1/2021	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Calling	Low	Local
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	5	Foraging	Low	Local
10/1/2021	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	n/a	Flyover	Medium	West
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	East
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	5	Foraging	Low	Local
10/1/2021	BLT-28	unidentified passerine	<i>n/a</i>	Landbirds	1	50	Flyover	Medium	West
10/1/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Flyover	Medium	North
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Calling	Low	Local
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	South
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	20	Calling	Low	Local
10/1/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	15	Calling	Low	Local
10/1/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Low	South
10/1/2021	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Foraging	Low	Local
10/1/2021	BLT-28	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	150	Calling	Low	Local
10/1/2021	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	10	Calling	Low	Local
10/1/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Calling	Low	Local
10/1/2021	BLT-32	common raven	<i>Corvus corax</i>	Landbirds	1	100	Flyover	Medium	Northwest
10/1/2021	BLT-32	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	100	Calling	Low	Local
10/1/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	West
10/1/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Medium	West
10/1/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	n/a	Foraging	Low	Local
10/1/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Foraging	Low	Local
10/1/2021	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	5	Foraging	Low	Local
10/1/2021	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local
10/1/2021	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	75	Flyover	Medium	Northwest
10/1/2021	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Medium	Southwest
10/1/2021	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	n/a	Flyover	Medium	Southeast

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/1/2021	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/1/2021	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Foraging	Low	Local
10/1/2021	BLT-37	sharp-shinned hawk	<i>Accipiter striatus</i>	Raptors	1	n/a	Flyover	Medium	Local
10/1/2021	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
10/1/2021	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	5	Foraging	Low	Local
10/1/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Foraging	Low	Local
10/1/2021	BLT-43	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Foraging	Low	Local
10/1/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Foraging	Low	Local
10/1/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	Local
10/1/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Foraging	Low	Local
10/1/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	Northwest
10/1/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Medium	West
10/1/2021	BLT-43	common raven	<i>Corvus corax</i>	Landbirds	1	300	Calling	Medium	Local
10/6/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	10	Singing	Low	Local
10/6/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Foraging	Low	Local
10/6/2021	BLT-28	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	100	Calling	Low	Local
10/6/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Calling	Low	Local
10/6/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	Local
10/6/2021	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	70	Calling	Low	Local
10/6/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	5	Calling	Low	Local
10/6/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	East
10/6/2021	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	East
10/6/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	5	Calling	Low	Local
10/6/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	10	Foraging	Low	Local
10/6/2021	BLT-28	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	n/a	Flyover	Medium	South
10/6/2021	BLT-28	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
10/6/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Calling	Low	Local
10/6/2021	BLT-32	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Calling	Low	Local
10/6/2021	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	4	10	Calling	Low	Local
10/6/2021	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Calling	Low	Local
10/6/2021	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	Northeast
10/6/2021	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	4	5	Flyover	Medium	North northwest
10/6/2021	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	5	Foraging	Low	Local
10/6/2021	BLT-32	common raven	<i>Corvus corax</i>	Landbirds	1	300	Flyover	Medium	n/a
10/6/2021	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/6/2021	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Calling	Low	Local
10/6/2021	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Flyover	Medium	n/a
10/6/2021	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	Local
10/6/2021	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Medium	Northwest
10/6/2021	BLT-43	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
10/6/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Foraging	Low	Local
10/6/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Foraging	Low	Local
10/6/2021	BLT-43	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-43	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Calling	Low	Local
10/6/2021	BLT-43	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	Local
10/6/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	n/a	Foraging	Low	n/a
10/6/2021	BLT-43	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-43	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	5	Foraging	Low	Local
10/6/2021	BLT-43	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	n/a	Flyover	Medium	North
10/6/2021	BLT-43	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Foraging	Low	Local
10/6/2021	BLT-43	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	5	Foraging	Low	Local
10/6/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Low	North
10/6/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Foraging	Low	Local
10/6/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	30	Flyover	Medium	n/a
10/6/2021	BLT-22	common raven	<i>Corvus corax</i>	Landbirds	1	250	Foraging	Low	n/a
10/6/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	Local
10/6/2021	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Calling	Low	Local
10/6/2021	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Calling	Low	Local
10/6/2021	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Flyover	Medium	Northeast
10/6/2021	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	Local
10/6/2021	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	Northeast
10/6/2021	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Singing	Low	Local
10/6/2021	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	Local
10/6/2021	BLT-26	common raven	<i>Corvus corax</i>	Landbirds	1	300	Calling	Low	Local
10/6/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Flyover	Medium	Northeast
10/6/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Flyover	Medium	n/a
10/6/2021	BLT-26	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	Local
10/6/2021	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	Local
10/6/2021	BLT-26	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	4	n/a	Calling	Low	Local
10/6/2021	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	n/a	Calling	Low	Local
10/6/2021	BLT-26	sharp-shinned hawk	<i>Accipiter striatus</i>	Raptors	1	n/a	Foraging	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/6/2021	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	n/a	Foraging	Low	Local
10/6/2021	BLT-23	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	10	Foraging	Low	Local
10/6/2021	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/6/2021	BLT-23	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Low	Local
10/6/2021	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	9	10	Foraging	Low	Local
10/6/2021	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	4	10	Foraging	Low	Local
10/6/2021	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Low	Northwest
10/6/2021	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	Local
10/7/2021	BLT-1	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	10	Calling	Low	Local
10/7/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	20	Calling	Low	Local
10/7/2021	BLT-1	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	1	n/a	Flyover	Low	Local
10/7/2021	BLT-1	northern goshawk	<i>Accipiter gentilis</i>	Raptors	1	n/a	Flyover	Low	Local
10/7/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local
10/7/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Calling	Low	Local
10/7/2021	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Flyover	Medium	n/a
10/7/2021	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	75	Calling	Low	Local
10/7/2021	BLT-1	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	10	Calling	Low	Local
10/7/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	20	Calling	Low	Local
10/7/2021	BLT-1	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	120	Calling	Low	n/a
10/7/2021	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	Southwest
10/7/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	10	Foraging	Low	Local
10/7/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	4	100	Flyover	Medium	Southwest
10/7/2021	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	75	Flyover	Medium	Southwest
10/7/2021	BLT-6	pine siskin	<i>Spinus pinus</i>	Landbirds	1	100	Flyover	Medium	Southwest
10/7/2021	BLT-6	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	1	n/a	Foraging	Low	Local
10/7/2021	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	6	n/a	Flyover	Medium	West
10/7/2021	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	7	10	Calling	Low	Local
10/7/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	4	n/a	Flyover	Medium	Southwest
10/7/2021	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	7	n/a	Foraging	Low	Local
10/7/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/7/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	9	n/a	Flyover	Medium	East
10/7/2021	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	75	Calling	Low	Local
10/7/2021	BLT-6	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	20	Calling	Low	Local
10/7/2021	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
10/7/2021	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Calling	Low	Local
10/7/2021	BLT-6	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	n/a	Flyover	Medium	West
10/7/2021	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/7/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
10/7/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	20	Flyover	Medium	Southeast
10/7/2021	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Calling	Low	Local
10/7/2021	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	Local
10/7/2021	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	West
10/7/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	5	20	Calling	Low	Local
10/7/2021	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Calling	Low	Local
10/7/2021	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	Local
10/7/2021	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	Local
10/7/2021	BLT-19	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	10	Calling	Low	Local
10/7/2021	BLT-19	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	30	Calling	Low	Local
10/7/2021	BLT-19	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
10/7/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	5	Calling	Low	Local
10/7/2021	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	30	Calling	Low	Local
10/7/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	Local
10/7/2021	BLT-17	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	30	Calling	Low	Local
10/7/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	Local
10/15/2021	BLT-11	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	n/a	Flyover	High	Local
10/15/2021	BLT-11	unidentified passerine	<i>n/a</i>	Landbirds	1	30	Calling	Low	Local
10/15/2021	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Calling	Low	Local
10/15/2021	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	5	Foraging	Low	Local
10/15/2021	BLT-11	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	4	n/a	Flyover	Medium	Local
10/15/2021	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	Local
10/15/2021	BLT-11	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	5	Foraging	Low	Local
10/15/2021	BLT-11	red crossbill	<i>Loxia curvirostra</i>	Landbirds	3	n/a	Flyover	Medium	North
10/15/2021	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	20	Calling	Low	Local
10/15/2021	BLT-15	red crossbill	<i>Loxia curvirostra</i>	Landbirds	12	n/a	Flyover	Medium	West
10/15/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Calling	Low	Local
10/15/2021	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Calling	Low	Local
10/15/2021	BLT-15	spruce grouse	<i>Falcipectus canadensis</i>	Gamebirds	1	5	Foraging	Low	Local
10/15/2021	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	5	Foraging	Low	Local
10/15/2021	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	10	Foraging	Low	Local
10/15/2021	BLT-15	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	200	Calling	Low	Local
10/15/2021	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	5	Foraging	Low	Local
10/15/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	200	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/15/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Calling	Low	Local
10/15/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Medium	East
10/15/2021	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	Local
10/15/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	5	Foraging	Low	Local
10/15/2021	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	15	Foraging	Low	Local
10/15/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	Local
10/15/2021	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-6	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	Local
10/15/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
10/15/2021	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	200	Calling	Low	Local
10/15/2021	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	5	Foraging	Low	Local
10/15/2021	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local
10/15/2021	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
10/15/2021	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
10/15/2021	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Foraging	Low	Local
10/15/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	8	15	Foraging	Low	Local
10/15/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Foraging	Low	Local
10/15/2021	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
10/15/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Flyover	Low	South
10/15/2021	BLT-19	brown creeper	<i>Certhia americana</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-19	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-19	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	40	n/a	Flyover	Medium	Northwest
10/15/2021	BLT-19	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	100	Calling	Low	Local
10/15/2021	BLT-22	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	6	50	Flyover	Medium	Southwest
10/15/2021	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	10	Calling	Low	Local
10/15/2021	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	Local
10/15/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Calling	Low	Local
10/15/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	50	Calling	Low	Local
10/15/2021	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	Local
10/15/2021	BLT-22	red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	1	20	Flyover	Medium	Southwest
10/15/2021	BLT-22	herring gull	<i>Larus argentatus</i>	Waterbirds	1	50	Flyover	Medium	East
10/15/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	3	n/a	Flyover	Medium	Northwest
10/15/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	10	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/15/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	10	Calling	Low	Local
10/15/2021	BLT-22	brown creeper	<i>Certhia americana</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Calling	Low	Local
10/15/2021	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	5	Calling	Low	Local
10/15/2021	BLT-22	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	20	Flyover	Medium	Northeast
10/15/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	3	20	Flyover	Medium	Northeast
10/15/2021	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	30	Calling	Low	Local
10/15/2021	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	n/a	Flyover	Medium	Northeast
10/15/2021	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	10	Calling	Low	Local
10/15/2021	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	Local
10/15/2021	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	8	5	Calling	Low	Local
10/15/2021	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	10	Calling	Low	Local
10/15/2021	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	30	Flyover	Medium	East
10/15/2021	BLT-22	song sparrow	<i>Melospiza melodia</i>	Landbirds	1	10	Foraging	Low	Local
10/15/2021	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Calling	Low	Local
10/15/2021	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-23	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	30	Calling	Low	Local
10/15/2021	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-23	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	300	Calling	Low	Local
10/15/2021	BLT-23	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Calling	Low	Local
10/15/2021	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Calling	Low	Local
10/15/2021	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	12	n/a	Flyover	High	Southwest
10/15/2021	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	70	Calling	Low	Local
10/15/2021	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	30	Calling	Low	Local
10/15/2021	BLT-26	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	50	Calling	Low	Local
10/15/2021	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/15/2021	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	10	Flyover	Medium	n/a
10/15/2021	BLT-26	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	2	30	Flyover	Medium	n/a
10/15/2021	BLT-26	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	30	Calling	Low	Local
10/15/2021	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Flyover	Medium	n/a
10/15/2021	BLT-26	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	30	Calling	Low	Local
10/15/2021	BLT-26	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	10	n/a	Flyover	Medium	Southwest
10/15/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/15/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/15/2021	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	Local
10/15/2021	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	30	Calling	Low	Local
10/15/2021	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	West
10/15/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	30	Calling	Low	Local
10/15/2021	BLT-27	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-27	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Calling	Low	Local
10/15/2021	BLT-27	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	Northwest
10/15/2021	BLT-27	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	10	Calling	Low	Local
10/15/2021	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	20	n/a	Foraging	Low	Local
10/15/2021	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	10	Calling	Low	Local
10/15/2021	BLT-27	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Foraging	Low	Local
10/15/2021	BLT-27	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	10	Foraging	Low	Local
10/15/2021	BLT-37	common raven	<i>Corvus corax</i>	Landbirds	1	200	Calling	Low	Local
10/15/2021	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	5	10	Foraging	Low	Local
10/15/2021	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Foraging	Low	Local
10/15/2021	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	n/a	Foraging	Low	Local
10/15/2021	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Flyover	Medium	n/a
10/15/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	n/a	Calling	Low	Local
10/15/2021	BLT-43	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Calling	Low	Local
10/15/2021	BLT-43	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Calling	Low	Local
10/21/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Calling	Low	Local
10/21/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	n/a	Foraging	Low	Local
10/21/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	40	Calling	Low	Local
10/21/2021	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Foraging	Low	Local
10/21/2021	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	1	80	Calling	Low	Local
10/21/2021	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	50	Calling	Low	Local
10/21/2021	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	Local
10/21/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	70	Calling	Low	Local
10/21/2021	BLT-6	pine siskin	<i>Spinus pinus</i>	Landbirds	1	40	Flyover	Medium	Southwest
10/21/2021	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	50	Calling	Low	Local
10/21/2021	BLT-6	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	100	Calling	Low	Local
10/21/2021	BLT-6	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	n/a	Flyover	Medium	Northwest
10/21/2021	BLT-6	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	50	Calling	Low	Local
10/21/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	Northwest
10/21/2021	BLT-6	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	Local
10/21/2021	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/21/2021	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
10/21/2021	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	20	Foraging	Low	Local
10/21/2021	BLT-7	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	100	Calling	Low	Local
10/21/2021	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	Local
10/21/2021	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	Local
10/21/2021	BLT-7	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	50	Calling	Low	Local
10/21/2021	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	Southwest
10/21/2021	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Medium	Northwest
10/21/2021	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
10/21/2021	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	10	Calling	Low	Local
10/21/2021	BLT-17	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	10	Calling	Low	Local
10/21/2021	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Calling	Low	Local
10/21/2021	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	10	Calling	Low	Local
10/21/2021	BLT-17	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	1	n/a	Displaying	Low	Local
10/21/2021	BLT-19	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	2	200	Calling	Low	Local
10/21/2021	BLT-19	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	Local
10/21/2021	BLT-19	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	Local
10/21/2021	BLT-19	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	15	Calling	Low	Local
10/21/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	Local
10/21/2021	BLT-19	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	5	Calling	Low	Local
10/21/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Calling	Low	Local
10/21/2021	BLT-19	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	30	Singing	Low	Local
10/21/2021	BLT-19	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Calling	Low	Local
10/21/2021	BLT-19	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Foraging	Low	Local
10/21/2021	BLT-19	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	70	Calling	Low	Local
10/22/2021	BLT-22	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	6	20	Foraging	Low	Local
10/22/2021	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	7	n/a	Foraging	Low	Local
10/22/2021	BLT-23	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	100	Calling	Low	Local
10/22/2021	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Calling	Low	Local
10/22/2021	BLT-26	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	10	Foraging	Low	Local
10/22/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Calling	Low	Local
10/22/2021	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Calling	Low	Local
10/22/2021	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	5	Calling	Low	Local
10/22/2021	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	5	Calling	Low	Local
10/22/2021	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Calling	Low	Local
10/22/2021	BLT-27	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	10	Calling	Low	Local
10/22/2021	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
10/22/2021	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
10/22/2021	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	Local
10/22/2021	BLT-37	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	20	Foraging	Low	n/a
10/22/2021	BLT-37	song sparrow	<i>Melospiza melodia</i>	Landbirds	1	30	Calling	Low	Local
10/22/2021	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Calling	Low	Local
10/22/2021	BLT-43	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Calling	Low	Local
10/22/2021	BLT-43	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Calling	Low	Local
3/23/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Foraging	Low	Local
3/23/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	200	Calling	Low	Local
3/23/2022	BLT-11	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	4	300	Flyover	Low	Northwest
3/23/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
3/23/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Calling	Low	Local
3/23/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Flyover	Low	Local
3/23/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	30	Foraging	Low	Local
3/23/2022	BLT-15	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	n/a	Foraging	Low	Local
3/23/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	100	Calling	Low	Local
3/23/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
3/23/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Foraging	Low	Local
3/23/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	30	Foraging	Low	Local
3/23/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	15	Foraging	Low	Local
3/23/2022	BLT-6	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	15	Foraging	Low	Local
3/23/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	30	Foraging	Low	Local
3/23/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Foraging	Low	Local
3/23/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	8	20	Foraging	Low	Local
3/23/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Foraging	Low	Local
3/23/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	4	30	Foraging	Low	Local
3/23/2022	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	10	Foraging	Low	Local
3/23/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	30	Foraging	Low	Local
3/23/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	50	Calling	Low	Local
3/23/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	5	Foraging	Low	Local
3/23/2022	BLT-17	common raven	<i>Corvus corax</i>	Landbirds	2	n/a	Flyover	Low	Local
3/23/2022	BLT-17	common raven	<i>Corvus corax</i>	Landbirds	1	300	Calling	Low	n/a
3/23/2022	BLT-26	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	2	400	Calling	Low	n/a
3/23/2022	BLT-26	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	300	Calling	Low	Local
3/23/2022	BLT-26	Canada goose	<i>Branta canadensis</i>	Waterfowl	2	50	Flyover	Medium	North
3/23/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	8	50	Foraging	Low	Local
3/23/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
3/23/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Calling	Low	Local
3/23/2022	BLT-26	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	150	Calling	Low	Local
3/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Calling	Low	Local
3/24/2022	BLT-22	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	250	Calling	Low	n/a
3/24/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Singing	Low	Local
3/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	200	Singing	Low	Local
3/24/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	5	Foraging	Low	Local
3/24/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	100	Calling	Low	Local
3/24/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	150	Foraging	Low	Local
3/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Foraging	Low	Local
3/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	300	Calling	Low	Local
3/24/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	200	Foraging	Low	Local
3/24/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	5	Foraging	Low	Local
3/24/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	5	Foraging	Low	Local
3/24/2022	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Flyover	Medium	South
3/24/2022	BLT-23	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	15	Foraging	Low	Local
3/24/2022	BLT-28	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	200	Flyover	Medium	Local
3/24/2022	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-28	common raven	<i>Corvus corax</i>	Landbirds	1	400	Calling	Low	n/a
3/24/2022	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Low	Southwest
3/24/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	50	Foraging	Low	Local
3/24/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	150	Calling	Low	Local
3/24/2022	BLT-32	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	2	300	Flyover	Low	n/a
3/24/2022	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
3/24/2022	BLT-37	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
3/24/2022	BLT-37	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	500	Calling	Low	n/a
3/24/2022	BLT-37	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	n/a	Foraging	Low	Local
3/24/2022	BLT-43A	common raven	<i>Corvus corax</i>	Landbirds	2	400	Calling	Low	n/a
3/24/2022	BLT-43A	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	200	Calling	Low	Local
3/24/2022	BLT-43A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	200	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/13/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Singing	Low	Local
4/13/2022	BLT-17	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Calling	Low	Local
4/13/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	Local
4/13/2022	BLT-17	common grackle	<i>Quiscalus quiscula</i>	Landbirds	2	n/a	Flyover	Low	Northwest
4/13/2022	BLT-26	red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	1	80	Calling	Low	n/a
4/13/2022	BLT-26	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Singing	Low	n/a
4/13/2022	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	30	Singing	Low	n/a
4/13/2022	BLT-26	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	100	Singing	Low	n/a
4/13/2022	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	n/a
4/13/2022	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	20	Flyover	Low	Southwest
4/13/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Singing	Low	n/a
4/13/2022	BLT-23	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	n/a
4/13/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Calling	Low	n/a
4/13/2022	BLT-23	pine siskin	<i>Spinus pinus</i>	Landbirds	1	30	Singing	Low	n/a
4/13/2022	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	n/a
4/13/2022	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	60	Calling	Low	n/a
4/13/2022	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	80	Singing	Low	n/a
4/13/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	60	Calling	Low	n/a
4/13/2022	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
4/13/2022	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Calling	Low	n/a
4/13/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Singing	Low	n/a
4/13/2022	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	25	Singing	Low	n/a
4/13/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	20	Calling	Low	n/a
4/13/2022	BLT-32	American robin	<i>Turdus migratorius</i>	Landbirds	1	15	Foraging	Low	n/a
4/13/2022	BLT-32	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	80	Flyover	Medium	South
4/13/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	n/a
4/13/2022	BLT-28	American robin	<i>Turdus migratorius</i>	Landbirds	1	40	Calling	Low	n/a
4/13/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	80	Singing	Low	n/a
4/13/2022	BLT-28	common grackle	<i>Quiscalus quiscula</i>	Landbirds	1	30	Flyover	Low	East
4/13/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	n/a
4/13/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Singing	Low	n/a
4/13/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Calling	Low	n/a
4/13/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	10	Foraging	Low	n/a
4/13/2022	BLT-43A	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	120	Calling	Low	n/a
4/13/2022	BLT-43A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	40	Flyover	Low	Northwest
4/13/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	3	30	Calling	Low	n/a
4/13/2022	BLT-43A	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/13/2022	BLT-43A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
4/13/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Calling	Low	n/a
4/13/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	40	Calling	Low	n/a
4/13/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	n/a
4/13/2022	BLT-37	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	60	Singing	Low	n/a
4/13/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	1	30	Calling	Low	n/a
4/13/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	1	20	Singing	Low	n/a
4/13/2022	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Foraging	Low	n/a
4/13/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	30	Calling	Low	n/a
4/13/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Calling	Low	n/a
4/13/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	80	Singing	Low	n/a
4/13/2022	BLT-22	pine siskin	<i>Spinus pinus</i>	Landbirds	7	40	Flyover	Low	Southeast
4/13/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	30	Calling	Low	n/a
4/13/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	10	Foraging	Low	n/a
4/13/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	n/a
4/13/2022	BLT-NEW	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	20	Foraging	Low	Local
4/13/2022	BLT-NEW	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Singing	Low	Local
4/13/2022	BLT-NEW	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
4/13/2022	BLT-NEW	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Foraging	Low	Local
4/13/2022	BLT-NEW	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	Local
4/13/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Calling	Low	Local
4/13/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Singing	Low	Local
4/13/2022	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	180	Singing	Low	Local
4/13/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Foraging	Low	Local
4/13/2022	BLT-1	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	100	Calling	Low	n/a
4/13/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	150	Calling	Low	Local
4/13/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
4/13/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	Local
4/13/2022	BLT-1	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	200	Flyover	Low	North
4/13/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Foraging	Low	Local
4/13/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	5	Foraging	Low	Local
4/13/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Calling	Low	Local
4/13/2022	BLT-1	common grackle	<i>Quiscalus quiscula</i>	Landbirds	2	n/a	Flyover	Medium	West
4/13/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	Local
4/13/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
4/13/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Calling	Low	Local
4/13/2022	BLT-6	common raven	<i>Corvus corax</i>	Landbirds	1	200	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/13/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Flyover	Low	East
4/13/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Foraging	Low	Local
4/13/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
4/13/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Foraging	Low	Local
4/13/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Singing	Low	Local
4/13/2022	BLT-6	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	80	Calling	Low	n/a
4/13/2022	BLT-6	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	2	5	Foraging	Low	Local
4/13/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local
4/13/2022	BLT-11	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	n/a	Flyover	Medium	East
4/13/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	70	Singing	Low	Local
4/13/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Calling	Low	Local
4/13/2022	BLT-11	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	500	Calling	Low	n/a
4/13/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	6	5	Foraging	Low	Local
4/13/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	Local
4/13/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Singing	Low	Local
4/13/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Singing	Low	Local
4/13/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	1	40	Calling	Low	Local
4/13/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Singing	Low	Local
4/13/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Calling	Low	Local
4/13/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Foraging	Low	Local
4/13/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	5	Foraging	Low	Local
4/13/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Singing	Low	Local
4/13/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	2	Foraging	Low	Local
4/13/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	Local
4/13/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Singing	Low	Local
4/13/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	120	Singing	Low	Local
4/13/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Singing	Low	Local
4/18/2022	BLT-15	common raven	<i>Corvus corax</i>	Landbirds	1	400	Calling	Low	n/a
4/18/2022	BLT-15	American robin	<i>Turdus migratorius</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
4/18/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Flyover	Low	Northwest
4/18/2022	BLT-15	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	10	Foraging	Low	Local
4/18/2022	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	10	Foraging	Low	Local
4/18/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	20	Calling	Low	Local
4/18/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Singing	Low	Local
4/18/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/18/2022	BLT-17	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	80	Singing	Low	Local
4/18/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Foraging	Low	Local
4/18/2022	BLT-17	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	Local
4/18/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	100	Calling	Low	Local
4/18/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Calling	Low	Local
4/18/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	Local
4/18/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	80	Singing	Low	Local
4/18/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Calling	Low	Local
4/18/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
4/18/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	Local
4/18/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	East
4/18/2022	BLT-7	common grackle	<i>Quiscalus quiscula</i>	Landbirds	1	60	Calling	Low	Local
4/18/2022	BLT-7	common grackle	<i>Quiscalus quiscula</i>	Landbirds	1	80	Calling	Low	Local
4/18/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-7	broad-winged hawk	<i>Buteo platypterus</i>	Raptors	1	5	Foraging	Low	Local
4/18/2022	BLT-7	unidentified passerine	<i>n/a</i>	Landbirds	1	5	Agitated	Low	Local
4/18/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	2	5	Calling	Low	Local
4/18/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
4/18/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	1	n/a	Flyover	Low	North
4/18/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Foraging	Low	Local
4/18/2022	BLT-7	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	60	Singing	Low	Local
4/18/2022	BLT-7	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Low	North
4/18/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	15	Singing	Low	Local
4/18/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	20	Singing	Low	Local
4/18/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Flyover	Low	Local
4/18/2022	BLT-7	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	20	Foraging	Low	Local
4/18/2022	BLT-NEW	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	10	Foraging	Low	Local
4/18/2022	BLT-NEW	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	Local
4/18/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/18/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	Local
4/18/2022	BLT-1	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	150	Singing	Low	Local
4/18/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	150	Singing	Low	Local
4/18/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	60	Singing	Low	Local
4/18/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	5	Calling	Low	Local
4/18/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/18/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	Local
4/18/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	30	Calling	Low	Local
4/18/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	Local
4/18/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Singing	Low	Local
4/18/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Low	West
4/18/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Calling	Low	Local
4/18/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	Local
4/18/2022	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	Local
4/18/2022	BLT-6	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	100	Singing	Low	Local
4/18/2022	BLT-6	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	30	Singing	Low	Local
4/18/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Calling	Low	Local
4/18/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Foraging	Low	Local
4/18/2022	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Calling	Low	Local
4/18/2022	BLT-6	American kestrel	<i>Falco sparverius</i>	Raptors	1	80	Flyover	Low	Local
4/18/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-22	common raven	<i>Corvus corax</i>	Landbirds	2	50	Flyover	Low	Southeast
4/20/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	4	5	Foraging	Low	Local
4/20/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	5	Foraging	Low	Local
4/20/2022	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Singing	Low	Local
4/20/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	Local
4/20/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	30	Singing	Low	Local
4/20/2022	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-22	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	Local
4/20/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	10	Calling	Low	Local
4/20/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	20	Singing	Low	Local
4/20/2022	BLT-37	common raven	<i>Corvus corax</i>	Landbirds	1	100	Flyover	Low	South
4/20/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/20/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Singing	Low	Local
4/20/2022	BLT-37	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	Local
4/20/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	Local
4/20/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	10	Calling	Low	Local
4/20/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Singing	Low	Local
4/20/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/20/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	2	n/a	Flyover	Low	South
4/20/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	n/a	Flyover	Low	South
4/20/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	30	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/20/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	Local
4/20/2022	BLT-43A	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	Local
4/20/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	Local
4/20/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/20/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local
4/20/2022	BLT-28	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	300	Calling	Low	n/a
4/20/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/20/2022	BLT-28	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/20/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	Local
4/20/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	300	Singing	Low	Local
4/20/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	100	Singing	Low	Local
4/20/2022	BLT-32	American robin	<i>Turdus migratorius</i>	Landbirds	1	30	Calling	Low	Local
4/20/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Calling	Low	Local
4/20/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	Local
4/20/2022	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/20/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	Local
4/20/2022	BLT-32	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	200	Singing	Low	Local
4/20/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	200	Singing	Low	Local
4/20/2022	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	150	Singing	Low	Local
4/20/2022	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	East
4/20/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	30	Foraging	Low	Local
4/20/2022	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	10	Foraging	Low	Local
4/20/2022	BLT-32	American robin	<i>Turdus migratorius</i>	Landbirds	2	10	Flyover	Low	East
4/25/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Calling	Medium	Local
4/25/2022	BLT-15	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	Local
4/25/2022	BLT-15	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	60	Singing	Low	Local
4/25/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Calling	Low	Local
4/25/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	Local
4/25/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/25/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local
4/25/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-6	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	20	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/25/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	Local
4/25/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
4/25/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	Local
4/25/2022	BLT-11	red crossbill	<i>Loxia curvirostra</i>	Landbirds	2	n/a	Flyover	Medium	West
4/25/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Singing	Low	Local
4/25/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Calling	Low	Local
4/25/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
4/25/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Singing	Low	Local
4/25/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Singing	Low	Local
4/25/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	100	Calling	Low	Local
4/25/2022	BLT-11	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	50	Singing	Low	Local
4/25/2022	BLT-7	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	20	Singing	Low	Local
4/25/2022	BLT-7	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Singing	Low	Local
4/25/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	Local
4/25/2022	BLT-7	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	100	Singing	Low	Local
4/25/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
4/25/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
4/25/2022	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	Local
4/25/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Foraging	Low	Local
4/25/2022	BLT-7	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Singing	Low	Local
4/25/2022	BLT-NEW	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	20	Singing	Low	Local
4/25/2022	BLT-NEW	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-NEW	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/25/2022	BLT-NEW	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Calling	Low	Local
4/25/2022	BLT-NEW	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	Local
4/25/2022	BLT-NEW	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	40	Calling	Low	Local
4/25/2022	BLT-NEW	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	10	Foraging	Low	Local
4/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	Local
4/25/2022	BLT-17	unidentified passerine	n/a	Landbirds	1	20	Calling	Low	Local
4/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Flyover	Low	Local
4/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	Local
4/25/2022	BLT-17	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	50	Singing	Low	Local
4/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Flyover	Low	Local
4/25/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	10	Foraging	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/25/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	10	Foraging	Low	Local
4/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
4/25/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	5	Foraging	Low	Local
4/25/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
4/25/2022	BLT-17	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Foraging	Low	Local
5/4/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	80	Calling	Low	n/a
5/4/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	2	n/a	Flyover	Low	East
5/4/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	Local
5/4/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	Southwest
5/4/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Calling	Low	Local
5/4/2022	BLT-11	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-11	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	20	Calling	Low	Local
5/4/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	100	Singing	Low	Local
5/4/2022	BLT-15	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
5/4/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	70	Singing	Low	Local
5/4/2022	BLT-15	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	20	Foraging	Low	Local
5/4/2022	BLT-15	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	Southeast
5/4/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Singing	Low	Local
5/4/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Singing	Low	Local
5/4/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	2	Foraging	Low	Local
5/4/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	90	Singing	Low	Local
5/4/2022	BLT-19A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
5/4/2022	BLT-19A	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	50	Flyover	Medium	n/a
5/4/2022	BLT-19A	common raven	<i>Corvus corax</i>	Landbirds	1	300	Calling	Low	n/a
5/4/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Foraging	Low	Local
5/4/2022	BLT-19A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	200	Singing	Low	Local
5/4/2022	BLT-19A	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-19A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/4/2022	BLT-19A	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-19A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-19A	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local
5/4/2022	BLT-19A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Singing	Low	Local
5/4/2022	BLT-17	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-17	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-17	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-17	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	15	Singing	Low	Local
5/4/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	70	Singing	Low	Local
5/4/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
5/4/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local
5/4/2022	BLT-17	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	1	80	Flyover	Medium	n/a
5/4/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	5	Foraging	Low	Local
5/4/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	150	Singing	Low	Local
5/4/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Flyover	Low	Local
5/4/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	2	Foraging	Low	Local
5/4/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
5/4/2022	BLT-17	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	40	Calling	Low	Local
5/4/2022	BLT-17	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	East
5/4/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
5/4/2022	BLT-1	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	20	Singing	Low	Local
5/4/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Singing	Low	Local
5/4/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	20	Calling	Low	Local
5/4/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	10	Foraging	Low	Local
5/4/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/4/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	100	Singing	Low	Local
5/4/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Flyover	Medium	Northeast
5/4/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Calling	Low	Local
5/4/2022	BLT-7	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-7	common grackle	<i>Quiscalus quiscula</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-7	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Singing	Low	Local
5/4/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	10	Foraging	Low	Local
5/4/2022	BLT-7	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Calling	Low	Local
5/4/2022	BLT-7	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	Northeast
5/4/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	100	Singing	Low	Local
5/4/2022	BLT-7	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
5/4/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	Local
5/4/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	10	Calling	Low	Local
5/4/2022	BLT-7	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	40	Calling	Low	Local
5/4/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Calling	Low	Local
5/4/2022	BLT-7	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	120	Singing	Low	Local
5/4/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	90	Singing	Low	Local
5/4/2022	BLT-6	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	East
5/4/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Flyover	Low	East
5/4/2022	BLT-6	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	Southeast
5/4/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Singing	Low	Local
5/4/2022	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Calling	Low	Local
5/4/2022	BLT-6	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Singing	Low	Local
5/4/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Singing	Low	Local
5/4/2022	BLT-6	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	5	Foraging	Low	Local
5/4/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Calling	Low	Local
5/4/2022	BLT-6	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	60	Calling	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/4/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	Local
5/4/2022	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	Local
5/4/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	15	Calling	Low	Local
5/4/2022	BLT-6	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	2	20	Calling	Low	Local
5/4/2022	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	70	Singing	Low	Local
5/6/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	80	Calling	Low	Local
5/6/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	Local
5/6/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Foraging	Low	Local
5/6/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Singing	Low	Local
5/6/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	5	Foraging	Low	Local
5/6/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Calling	Low	Local
5/6/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	2	Singing	Low	Local
5/6/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	5	Singing	Low	Local
5/6/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
5/6/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	15	Foraging	Low	Local
5/6/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Foraging	Low	Local
5/6/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local
5/6/2022	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	Local
5/6/2022	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Foraging	Low	Local
5/6/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/6/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-43A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Low	North
5/6/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-43A	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	100	Singing	Low	Local
5/6/2022	BLT-43A	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Low	South
5/6/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Foraging	Low	Local
5/6/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	20	Calling	Low	Local
5/6/2022	BLT-43A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
5/6/2022	BLT-43A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Foraging	Low	Local
5/6/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-43A	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/6/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Foraging	Low	Local
5/6/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	2	n/a	Flyover	Low	Southwest
5/6/2022	BLT-NEW	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	40	Calling	Low	Local
5/6/2022	BLT-NEW	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-NEW	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-NEW	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	5	Foraging	Low	Local
5/6/2022	BLT-NEW	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-NEW	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/6/2022	BLT-NEW	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	100	Singing	Low	Local
5/6/2022	BLT-NEW	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
5/6/2022	BLT-NEW	unidentified passerine	n/a	Landbirds	1	10	Foraging	Low	Local
5/6/2022	BLT-NEW	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-NEW	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	5	Foraging	Low	Local
5/6/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	Local
5/6/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-37	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	80	Flyover	Medium	North
5/6/2022	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	Local
5/6/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	10	Foraging	Low	Local
5/6/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	15	Singing	Low	Local
5/6/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	40	Foraging	Low	Local
5/6/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	5	Foraging	Low	Local
5/6/2022	BLT-37	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	40	Calling	Low	Local
5/6/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	120	Singing	Low	Local
5/6/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Flyover	Low	West
5/6/2022	BLT-37	turkey vulture	<i>Cathartes aura</i>	Raptors	1	90	Flyover	Low	Local
5/6/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	1	2	Foraging	Low	Local
5/6/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	40	Agitated	Low	Local
5/6/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	80	Singing	Low	Local
5/6/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Foraging	Low	Local
5/6/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	2	n/a	Foraging	Low	Local
5/6/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	20	Singing	Low	Local
5/6/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	2	10	Foraging	Low	Local
5/6/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Foraging	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/6/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	Local
5/6/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	70	Singing	Low	Local
5/6/2022	BLT-32	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	110	Calling	Low	Local
5/6/2022	BLT-32	common raven	<i>Corvus corax</i>	Landbirds	1	400	Calling	Low	Local
5/6/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	Local
5/6/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Calling	Low	Local
5/6/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Singing	Low	Local
5/6/2022	BLT-32	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-32	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	100	Flyover	Low	Northwest
5/6/2022	BLT-32	unidentified passerine	<i>n/a</i>	Landbirds	1	n/a	Flyover	Low	Northeast
5/6/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	Local
5/6/2022	BLT-32	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	80	Calling	Low	Local
5/6/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	70	Calling	Low	Local
5/6/2022	BLT-32	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	South
5/6/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-32	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Flyover	Low	Local
5/6/2022	BLT-32	American robin	<i>Turdus migratorius</i>	Landbirds	2	n/a	Foraging	Low	Local
5/6/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	40	Calling	Low	Local
5/6/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Singing	Low	Local
5/6/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-28	Cape May warbler	<i>Setophaga tigrina</i>	Landbirds	1	40	Singing	Low	Local
5/6/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Calling	Low	Local
5/6/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Singing	Low	Local
5/6/2022	BLT-28	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	Local
5/6/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	Local
5/6/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Foraging	Low	Local
5/6/2022	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Foraging	Low	Local
5/6/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-28	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	80	Singing	Low	Local

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/6/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	70	Singing	Low	Local
5/6/2022	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	n/a	Flyover	Medium	West
5/6/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	Local
5/6/2022	BLT-28	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	150	Singing	Low	Local
5/6/2022	BLT-28	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	Local
5/6/2022	BLT-28	common raven	<i>Corvus corax</i>	Landbirds	2	300	Flyover	Low	n/a
5/6/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Foraging	Low	Local
5/6/2022	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	Local
5/6/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	70	Singing	Low	Local
5/6/2022	BLT-28	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	70	Singing	Low	Local
5/6/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	Local
5/16/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-26	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	40	Calling	Low	n/a
5/16/2022	BLT-26	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-26	northern flicker	<i>Colaptes auratus</i>	Landbirds	2	80	Singing	Low	n/a
5/16/2022	BLT-26	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-26	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-26	brown creeper	<i>Certhia americana</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-26	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-26	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	n/a
5/16/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-26	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-26	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-23	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-23	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	>100	Singing	Low	n/a
5/16/2022	BLT-23	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-23	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	70	Singing	Low	n/a
5/16/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	>100	Singing	Low	n/a
5/16/2022	BLT-23	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-23	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-23	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-23	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-23	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	45	Singing	Low	n/a
5/16/2022	BLT-23	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-23	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-23	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-23	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	45	Calling	Low	n/a
5/16/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-23	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
5/16/2022	BLT-22	northern waterthrush	<i>Parkesia noveboracensis</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-22	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-22	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	365	Singing	Low	n/a
5/16/2022	BLT-22	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-22	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-22	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	120	Singing	Low	n/a
5/16/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	45	Singing	Low	n/a
5/16/2022	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Calling	Low	n/a
5/16/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-43A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-43A	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-43A	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	95	Singing	Low	n/a
5/16/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-43A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-43A	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	65	Singing	Low	n/a
5/16/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-43A	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-43A	northern parula	<i>Setophaga americana</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-43A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-43A	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-43A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	65	Singing	Low	n/a
5/16/2022	BLT-43A	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Foraging	Low	n/a
5/16/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	5	Calling	Low	n/a
5/16/2022	BLT-43A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-43A	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-43A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-43A	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	65	Singing	Low	n/a
5/16/2022	BLT-37	northern waterthrush	<i>Parkesia noveboracensis</i>	Landbirds	1	>100	Singing	Low	n/a
5/16/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	80	Calling	Low	n/a
5/16/2022	BLT-37	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	45	Singing	Low	n/a
5/16/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	60	Singing	Low	n/a
5/16/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	45	Calling	Low	n/a
5/16/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	5	Calling	Low	n/a
5/16/2022	BLT-37	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	70	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	>100	Singing	Low	n/a
5/16/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-32	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	60	Singing	Low	n/a
5/16/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-32	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-32	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	40	Calling	Low	n/a
5/16/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-32	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-32	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	70	Singing	Low	n/a
5/16/2022	BLT-32	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	55	Singing	Low	n/a
5/16/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-28	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	40	Singing	Low	n/a
5/16/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	2	60	Singing	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/16/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-28	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	10	Singing	Low	n/a
5/16/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-28	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	25	Singing	Low	n/a
5/16/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-28	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	35	Singing	Low	n/a
5/16/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	60	Singing	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	75	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-28	common grackle	<i>Quiscalus quiscula</i>	Landbirds	2	40	Flyover	Medium	Northwest
5/16/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	40	Calling	Low	n/a
5/16/2022	BLT-28	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Calling	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/16/2022	BLT-28	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	20	Singing	Low	n/a
5/16/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	5	Singing	Low	n/a
5/16/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-17	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-17	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-17	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Calling	Low	n/a
5/16/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	75	Calling	Low	n/a
5/16/2022	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
5/16/2022	BLT-7	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-7	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
5/16/2022	BLT-7	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-7	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-6	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	5	Singing	Low	n/a
5/16/2022	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
5/16/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-6	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-6	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	5	Singing	Low	n/a
5/16/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	20	Singing	Low	n/a
5/16/2022	BLT-6	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Flyover	Low	Northeast
5/16/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	3	Calling	Low	n/a
5/16/2022	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	n/a
5/16/2022	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/16/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	15	Singing	Low	n/a
5/16/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	n/a
5/16/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	100	Singing	Low	n/a
5/16/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	75	Singing	Low	n/a
5/16/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	n/a
5/16/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	110	Singing	Low	n/a
5/16/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	30	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/16/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Singing	Low	n/a
5/16/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/16/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	10	Calling	Low	n/a
5/16/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	5	Singing	Low	n/a
5/16/2022	BLT-1	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-1	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	40	Singing	Low	n/a
5/16/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	5	Singing	Low	n/a
5/16/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/16/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	75	Flyover	Medium	East
5/16/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/16/2022	BLT-1	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	n/a
5/16/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	5	Singing	Low	n/a
4/28/2022	BLT-NEW	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-NEW	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-NEW	white-winged crossbill	<i>Loxia leucoptera</i>	Landbirds	12	n/a	Flyover	Low	Southwest
4/28/2022	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	150	Singing	Low	n/a
4/28/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-22	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Flyover	Low	n/a
4/28/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Flyover	Low	n/a
4/28/2022	BLT-22	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Calling	Low	n/a
4/28/2022	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	4	n/a	Flyover	Low	Northwest
4/28/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	80	Calling	Low	n/a
4/28/2022	BLT-22	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	20	Foraging	Low	n/a
4/28/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	60	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/28/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
4/28/2022	BLT-23	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Flyover	Low	n/a
4/28/2022	BLT-23	common raven	<i>Corvus corax</i>	Landbirds	2	n/a	Flyover	Medium	Northeast
4/28/2022	BLT-23	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-37	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	n/a
4/28/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Calling	Low	Local
4/28/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Singing	Low	n/a
4/28/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Flyover	Low	n/a
4/28/2022	BLT-37	common raven	<i>Corvus corax</i>	Landbirds	1	400	Calling	Low	n/a
4/28/2022	BLT-37	common raven	<i>Corvus corax</i>	Landbirds	1	200	Calling	Low	n/a
4/28/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-37	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	5	Foraging	Low	n/a
4/28/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
4/28/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Singing	Low	n/a
4/28/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	120	Singing	Low	n/a
4/28/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-43A	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-43A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	200	Singing	Low	n/a
4/28/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-43A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Calling	Low	n/a
4/28/2022	BLT-43A	common raven	<i>Corvus corax</i>	Landbirds	1	400	Calling	Low	n/a
4/28/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Singing	Low	n/a
4/28/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	n/a
4/28/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-43A	American robin	<i>Turdus migratorius</i>	Landbirds	1	30	Calling	Low	n/a
4/28/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	20	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
4/28/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	5	Singing	Low	n/a
4/28/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	n/a
4/28/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	60	Singing	Low	n/a
4/28/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	70	Singing	Low	n/a
4/28/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Calling	Low	n/a
4/28/2022	BLT-28	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	120	Singing	Low	n/a
4/28/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-32	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Calling	Low	n/a
4/28/2022	BLT-32	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	200	Singing	Low	n/a
4/28/2022	BLT-32	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	50	Singing	Low	n/a
4/28/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	120	Singing	Low	n/a
4/28/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	20	Calling	Low	n/a
4/28/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	n/a
4/28/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
4/28/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
4/28/2022	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Medium	Northeast
4/28/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	20	Calling	Low	n/a
5/20/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-19A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-19A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-19A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-19A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-19A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-19A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	15	Calling	Low	n/a
5/20/2022	BLT-19A	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/20/2022	BLT-19A	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	30	Calling	Low	n/a
5/20/2022	BLT-19A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-19A	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-19A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-19A	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/20/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	15	Agitated	Low	n/a
5/20/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/20/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-15	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	80	Singing	Low	n/a
5/20/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
5/20/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	n/a
5/20/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	70	Calling	Low	n/a
5/20/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-15	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	n/a	Flyover	Low	n/a
5/20/2022	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	10	Foraging	Low	n/a
5/20/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	10	Calling	Low	n/a
5/20/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	n/a
5/20/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Calling	Low	n/a
5/20/2022	BLT-15	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-15	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/20/2022	BLT-15	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Calling	Low	n/a
5/20/2022	BLT-15	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/20/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	150	Singing	Low	n/a
5/20/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	80	Singing	Low	n/a
5/20/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/20/2022	BLT-11	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	50	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/20/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
5/20/2022	BLT-11	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-11	northern parula	<i>Setophaga americana</i>	Landbirds	1	60	Singing	Low	n/a
5/20/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-11	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	10	Singing	Low	n/a
5/20/2022	BLT-11	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	80	Singing	Low	n/a
5/20/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-11	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-11	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-11	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-11	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	40	Singing	Low	n/a
5/20/2022	BLT-11	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	50	Calling	Low	n/a
5/20/2022	BLT-11	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	60	Singing	Low	n/a
5/20/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
5/20/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/20/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-11	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	20	Calling	Low	n/a
5/20/2022	BLT-11	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	150	Singing	Low	n/a
5/20/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	70	Singing	Low	n/a
5/20/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Calling	Low	n/a
5/20/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	30	Calling	Low	n/a
5/20/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Low	n/a
5/20/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-11	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Singing	Low	n/a
5/20/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	n/a
5/20/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	15	Calling	Low	n/a
5/24/2022	BLT-43A	northern parula	<i>Setophaga americana</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-43A	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-43A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-43A	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	10	Singing	Low	n/a
5/24/2022	BLT-43A	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-43A	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	200	Flyover	Medium	Southwest
5/24/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	n/a	Flyover	Low	Northeast

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/24/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	n/a	Flyover	Low	Southwest
5/24/2022	BLT-43A	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	40	Calling	Low	n/a
5/24/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-32	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	n/a
5/24/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	90	Singing	Low	n/a
5/24/2022	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-32	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	30	Calling	Low	n/a
5/24/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-32	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/24/2022	BLT-32	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	70	Singing	Low	n/a
5/24/2022	BLT-37	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	Northeast
5/24/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	10	Calling	Low	n/a
5/24/2022	BLT-37	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	2	10	Calling	Low	n/a
5/24/2022	BLT-37	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	1	5	Foraging	Low	n/a
5/24/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-37	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-37	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	200	Singing	Low	n/a
5/24/2022	BLT-37	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	150	Calling	Low	n/a
5/24/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/24/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-28	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-28	northern parula	<i>Setophaga americana</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-28	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	1	n/a	Flyover	Medium	Southwest
5/24/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Flyover	Low	Southwest
5/24/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-28	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-28	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	East
5/24/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Flyover	Low	East
5/24/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	10	Calling	Low	n/a
5/24/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-26	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	10	Calling	Low	n/a
5/24/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	n/a	Foraging	Low	n/a
5/24/2022	BLT-26	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-26	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	100	Singing	Low	n/a
5/24/2022	BLT-26	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	120	Singing	Low	n/a
5/24/2022	BLT-26	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	10	Singing	Low	n/a
5/24/2022	BLT-26	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	50	Calling	Low	n/a
5/24/2022	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	15	Singing	Low	n/a
5/24/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/24/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	21	80	Singing	Low	n/a
5/24/2022	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Calling	Low	n/a
5/24/2022	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-26	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Flyover	Low	Southwest
5/24/2022	BLT-23	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-23	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	100	Singing	Low	n/a
5/24/2022	BLT-23	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	100	Singing	Low	n/a
5/24/2022	BLT-23	blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-23	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	n/a	Flyover	Low	East
5/24/2022	BLT-23	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-23	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	120	Singing	Low	n/a
5/24/2022	BLT-23	blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-23	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	70	Singing	Low	n/a
5/24/2022	BLT-23	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	100	Singing	Low	n/a
5/24/2022	BLT-23	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-23	blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
5/24/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-23	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-23	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-23	unidentified passerine	n/a	Landbirds	1	n/a	Flyover	Low	West
5/24/2022	BLT-23	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	1	60	Calling	Low	n/a
5/24/2022	BLT-23	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-23	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	120	Singing	Low	n/a
5/24/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-22	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	30	Singing	Low	n/a
5/24/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	15	Calling	Low	n/a
5/24/2022	BLT-22	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-22	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	150	Singing	Low	n/a
5/24/2022	BLT-22	northern parula	<i>Setophaga americana</i>	Landbirds	1	30	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/24/2022	BLT-22	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	Local
5/24/2022	BLT-22	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-22	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	70	Flyover	Medium	North
5/24/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	80	Singing	Low	n/a
5/24/2022	BLT-22	yellow-bellied flycatcher	<i>Empidonax flaviventris</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	20	Calling	Low	n/a
5/24/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	90	Singing	Low	n/a
5/24/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	60	Singing	Low	n/a
5/24/2022	BLT-22	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	50	Singing	Low	n/a
5/24/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-22	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/24/2022	BLT-22	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	40	Singing	Low	n/a
5/24/2022	BLT-22	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-11	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-11	chipping sparrow	<i>Spizella passerina</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-11	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-11	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-11	northern parula	<i>Setophaga americana</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	15	Singing	Low	n/a
5/25/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-11	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-11	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-11	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	belted kingfisher	<i>Megaceryle alcyon</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Calling	Low	n/a
5/25/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	50	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-11	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-11	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-11	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Calling	Low	n/a
5/25/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-11	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	60	Calling	Low	n/a
5/25/2022	BLT-11	northern parula	<i>Setophaga americana</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	70	Calling	Low	n/a
5/25/2022	BLT-11	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-15	northern parula	<i>Setophaga americana</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-15	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	50	Singing	Low	n/a
5/25/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-15	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	120	Singing	Low	n/a
5/25/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
5/25/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-15	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Copulation	Low	n/a
5/25/2022	BLT-15	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	60	Singing	Low	n/a
5/25/2022	BLT-15	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	50	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-15	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	30	Singing	Low	n/a
5/25/2022	BLT-15	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-15	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-15	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-15	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	n/a
5/25/2022	BLT-15	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-15	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-17	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	25	Calling	Low	n/a
5/25/2022	BLT-17	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	90	Calling	Low	n/a
5/25/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	80	Calling	Low	n/a
5/25/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Calling	Low	n/a
5/25/2022	BLT-17	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	40	Calling	Low	n/a
5/25/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Calling	Low	n/a
5/25/2022	BLT-17	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	2	10	Agitated	Low	n/a
5/25/2022	BLT-17	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	15	Calling	Low	n/a
5/25/2022	BLT-17	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	30	Calling	Low	n/a
5/25/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	70	Calling	Low	n/a
5/25/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Calling	Low	n/a
5/25/2022	BLT-17	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	50	Calling	Low	n/a
5/25/2022	BLT-17	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Calling	Low	n/a
5/25/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Calling	Low	n/a
5/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	15	Foraging	Low	n/a
5/25/2022	BLT-17	olive-sided flycatcher	<i>Contopus cooperi</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-17	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-17	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	70	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Calling	Low	n/a
5/25/2022	BLT-17	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Calling	Low	n/a
5/25/2022	BLT-17	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	80	Calling	Low	n/a
5/25/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Calling	Low	n/a
5/25/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Calling	Low	n/a
5/25/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	20	Calling	Low	n/a
5/25/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-19A	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	2	60	Singing	Low	n/a
5/25/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-19A	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-19A	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-19A	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-19A	northern parula	<i>Setophaga americana</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-19A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-19A	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-19A	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-19A	Philadelphia vireo	<i>Vireo philadelphicus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-19A	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-19A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-19A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	2	50	Singing	Low	n/a
5/25/2022	BLT-19A	northern parula	<i>Setophaga americana</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-19A	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-19A	brown creeper	<i>Certhia americana</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-19A	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-19A	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-19A	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-19A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	2	50	Singing	Low	n/a
5/25/2022	BLT-19A	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	10	Flyover	Low	North
5/25/2022	BLT-19A	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	10	Calling	Low	n/a
5/25/2022	BLT-19A	northern parula	<i>Setophaga americana</i>	Landbirds	1	20	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	70	Singing	Low	n/a
5/25/2022	BLT-19A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-19A	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-19A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	5	Calling	Low	n/a
5/25/2022	BLT-19A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	15	Singing	Low	n/a
5/25/2022	BLT-1	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	2	30	Singing	Low	n/a
5/25/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-1	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Calling	Low	n/a
5/25/2022	BLT-1	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-1	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	northern parula	<i>Setophaga americana</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	alder flycatcher	<i>Empidonax alnorum</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	eastern phoebe	<i>Sayornis phoebe</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-1	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-1	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	35	Singing	Low	n/a
5/25/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-1	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	70	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-1	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	20	Calling	Low	n/a
5/25/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	northern parula	<i>Setophaga americana</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-1	mallard	<i>Anas platyrhynchos</i>	Waterfowl	1	80	Flyover	Medium	Southwest
5/25/2022	BLT-1	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-1	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-1	northern parula	<i>Setophaga americana</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	1	15	Foraging	Low	n/a
5/25/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-6	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-6	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	2	30	Singing	Low	n/a
5/25/2022	BLT-6	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-6	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-6	chipping sparrow	<i>Spizella passerina</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-6	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-6	American robin	<i>Turdus migratorius</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-6	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	northern waterthrush	<i>Parkesia noveboracensis</i>	Landbirds	1	45	Singing	Low	n/a
5/25/2022	BLT-6	least flycatcher	<i>Empidonax minimus</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-6	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-6	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	70	Calling	Low	n/a
5/25/2022	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-6	olive-sided flycatcher	<i>Contopus cooperi</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	10	Singing	Low	n/a
5/25/2022	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-6	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-6	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-6	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	50	Singing	Low	n/a
5/25/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	10	Foraging	Low	n/a
5/25/2022	BLT-6	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	100	Singing	Low	n/a
5/25/2022	BLT-6	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	20	Flyover	Low	East
5/25/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	60	Singing	Low	n/a
5/25/2022	BLT-6	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	25	Calling	Low	n/a
5/25/2022	BLT-7	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a
5/25/2022	BLT-7	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-7	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-7	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-7	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	40	Calling	Low	n/a
5/25/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	70	Singing	Low	n/a
5/25/2022	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	1	15	Foraging	Low	n/a
5/25/2022	BLT-7	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	60	Calling	Low	n/a
5/25/2022	BLT-7	common grackle	<i>Quiscalus quiscula</i>	Landbirds	3	30	Flyover	Medium	Northwest
5/25/2022	BLT-7	chestnut-sided warbler	<i>Setophaga pensylvanica</i>	Landbirds	1	25	Singing	Low	n/a
5/25/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	90	Calling	Low	n/a
5/25/2022	BLT-7	common raven	<i>Corvus corax</i>	Landbirds	1	200	Flyover	Medium	Southwest
5/25/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	n/a
5/25/2022	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	120	Singing	Low	n/a
5/25/2022	BLT-7	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	90	Singing	Low	n/a
5/25/2022	BLT-7	Nashville warbler	<i>Leiostyris alpestris</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-7	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	40	Singing	Low	n/a
5/25/2022	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
5/25/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	20	Singing	Low	n/a
5/25/2022	BLT-7	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-7	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	60	Singing	Low	n/a
5/25/2022	BLT-7	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	30	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
5/25/2022	BLT-7	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	80	Singing	Low	n/a
5/25/2022	BLT-7	red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	1	>100	Singing	Low	n/a
8/25/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-22	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	n/a
8/25/2022	BLT-22	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
8/25/2022	BLT-22	unidentified passerine	n/a	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-22	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	100	Calling	Low	n/a
8/25/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-26	American robin	<i>Turdus migratorius</i>	Landbirds	3	50	Calling	Low	n/a
8/25/2022	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	4	50	Calling	Low	n/a
8/25/2022	BLT-26	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-26	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	100	Singing	Low	n/a
8/25/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	n/a	Calling	Low	n/a
8/25/2022	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	3	n/a	Calling	Low	n/a
8/25/2022	BLT-26	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
8/25/2022	BLT-26	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-26	unidentified passerine	n/a	Landbirds	2	n/a	Flyover	Low	n/a
8/25/2022	BLT-26	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	Northeast
8/25/2022	BLT-26	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Foraging	Low	n/a
8/25/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-26	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-26	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	2	50	Foraging	Low	n/a
8/25/2022	BLT-26	red crossbill	<i>Loxia curvirostra</i>	Landbirds	3	50	Calling	Low	n/a
8/25/2022	BLT-26	bay-breasted warbler	<i>Setophaga castanea</i>	Landbirds	2	n/a	Foraging	Low	n/a
8/25/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	n/a	Calling	Low	n/a
8/25/2022	BLT-23	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-23	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-23	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/25/2022	BLT-23	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Flyover	Medium	South
8/25/2022	BLT-23	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-23	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a
8/25/2022	BLT-23	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
8/25/2022	BLT-23	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-23	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-23	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-23	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-52	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	2	n/a	Singing	Low	n/a
8/25/2022	BLT-52	palm warbler	<i>Setophaga palmarum</i>	Landbirds	4	n/a	Calling	Low	n/a
8/25/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	n/a	Calling	Low	n/a
8/25/2022	BLT-52	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	6	n/a	Calling	Low	n/a
8/25/2022	BLT-52	solitary sandpiper	<i>Tringa solitaria</i>	Shorebirds	2	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
8/25/2022	BLT-52	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	50	Calling	Low	n/a
8/25/2022	BLT-52	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	100	Calling	Low	n/a
8/25/2022	BLT-52	unidentified passerine	n/a	Landbirds	10	n/a	Flyover	Low	West
8/25/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	50	Singing	Low	n/a
8/25/2022	BLT-52	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-52	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-52	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-52	red crossbill	<i>Loxia curvirostra</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	n/a	Calling	Low	n/a
8/25/2022	BLT-28	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	50	Singing	Low	n/a
8/25/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-28	American robin	<i>Turdus migratorius</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-28	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-28	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	100	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/25/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-32	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	n/a	Flyover	Low	Northwest
8/25/2022	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	4	n/a	Calling	Low	n/a
8/25/2022	BLT-32	common raven	<i>Corvus corax</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-32	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-32	black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	Landbirds	1	100	Singing	Low	n/a
8/25/2022	BLT-32	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
8/25/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-32	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-32	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	100	Flyover	Low	North
8/25/2022	BLT-32	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	n/a	Foraging	Low	n/a
8/25/2022	BLT-32	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Calling	Low	n/a
8/25/2022	BLT-32	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	3	n/a	Calling	Low	n/a
8/25/2022	BLT-32	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-32	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-37	Canada warbler	<i>Cardellina canadensis</i>	Landbirds	2	n/a	Foraging	Low	n/a
8/25/2022	BLT-37	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	3	n/a	Calling	Low	n/a
8/25/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
8/25/2022	BLT-37	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	50	Calling	Low	n/a
8/25/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Foraging	Low	n/a
8/25/2022	BLT-37	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/25/2022	BLT-37	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	50	Calling	Low	n/a
8/25/2022	BLT-43A	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	n/a	Singing	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/25/2022	BLT-43A	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Singing	Low	n/a
8/25/2022	BLT-43A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Singing	Low	n/a
8/25/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
8/25/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-6	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-6	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	n/a	Singing	Low	n/a
8/26/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-6	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-6	American robin	<i>Turdus migratorius</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-6	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
8/26/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-6	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	1	n/a	Foraging	Low	n/a
8/26/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-6	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-6	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-7	common raven	<i>Corvus corax</i>	Landbirds	1	250	Calling	Low	n/a
8/26/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	2	100	Calling	Low	n/a
8/26/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	100	Calling	Low	n/a
8/26/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-7	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-7	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-1	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-1	yellow-bellied flycatcher	<i>Empidonax flaviventris</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-1	red crossbill	<i>Loxia curvirostra</i>	Landbirds	3	50	Flyover	Low	West
8/26/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	n/a	Calling	Low	n/a
8/26/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-1	common loon	<i>Gavia immer</i>	Waterfowl	1	500	Calling	Low	n/a
8/26/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-1	Cape May warbler	<i>Setophaga tigrina</i>	Landbirds	1	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/26/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-1	unidentified passerine	n/a	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-1	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	100	Singing	Low	n/a
8/26/2022	BLT-1	double-crested cormorant	<i>Phalacrocorax auritus</i>	Waterbirds	1	100	Flyover	Medium	Northeast
8/26/2022	BLT-17	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	100	Calling	Low	n/a
8/26/2022	BLT-17	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
8/26/2022	BLT-17	mourning dove	<i>Zenaida macroura</i>	Landbirds	1	100	Singing	Low	n/a
8/26/2022	BLT-17	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-11	unidentified passerine	n/a	Landbirds	1	100	Singing	Low	n/a
8/26/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	5	n/a	Foraging	Low	n/a
8/26/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	2	n/a	Flyover	Medium	Southeast
8/26/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	50	Calling	Low	n/a
8/26/2022	BLT-11	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-15	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Singing	Low	n/a
8/26/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-15	American robin	<i>Turdus migratorius</i>	Landbirds	2	100	Calling	Low	n/a
8/26/2022	BLT-15	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-15	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-15	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-15	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-15	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-15	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	n/a	Flyover	Low	North
8/26/2022	BLT-27	palm warbler	<i>Setophaga palmarum</i>	Landbirds	4	n/a	Calling	Low	n/a
8/26/2022	BLT-27	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-27	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	n/a	Foraging	Low	n/a
8/26/2022	BLT-27	northern flicker	<i>Colaptes auratus</i>	Landbirds	3	50	Calling	Low	n/a
8/26/2022	BLT-27	northern parula	<i>Setophaga americana</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/26/2022	BLT-27	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	3	50	Foraging	Low	n/a
8/26/2022	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds		50	Calling	Low	n/a
8/26/2022	BLT-27	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	50	Singing	Low	n/a
8/26/2022	BLT-27	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-27	common raven	<i>Corvus corax</i>	Landbirds	1	250	Calling	Low	n/a
8/26/2022	BLT-27	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Foraging	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/26/2022	BLT-27	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	50	Calling	Low	n/a
8/26/2022	BLT-30	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-30	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds		n/a	Calling	Low	n/a
8/26/2022	BLT-30	common raven	<i>Corvus corax</i>	Landbirds	2	250	Calling	Low	n/a
8/26/2022	BLT-30	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-30	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-30	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/26/2022	BLT-30	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-55	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/26/2022	BLT-55	northern parula	<i>Setophaga americana</i>	Landbirds	2	n/a	Foraging	Low	n/a
8/26/2022	BLT-55	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-55	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
8/26/2022	BLT-55	song sparrow	<i>Melospiza melodia</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-55	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-55	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	50	Calling	Low	n/a
8/26/2022	BLT-55	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
8/26/2022	BLT-55	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-55	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-55	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-55	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
8/26/2022	BLT-55	common nighthawk	<i>Chordeiles minor</i>	Landbirds	1	50	Flyover	Medium	Northwest
8/26/2022	BLT-55	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-55	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
8/26/2022	BLT-55	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-55	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	n/a	Foraging	Low	n/a
8/26/2022	BLT-55	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	50	Singing	Low	n/a
8/26/2022	BLT-54	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
8/26/2022	BLT-54	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
8/26/2022	BLT-54	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-54	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
8/26/2022	BLT-54	common raven	<i>Corvus corax</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	4	n/a	Calling	Low	n/a
9/11/2022	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
9/11/2022	BLT-28	American robin	<i>Turdus migratorius</i>	Landbirds	1	50	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/11/2022	BLT-28	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	50	Calling	Low	n/a
9/11/2022	BLT-28	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	n/a
9/11/2022	BLT-28	common raven	<i>Corvus corax</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	50	Singing	Low	n/a
9/11/2022	BLT-32	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-32	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
9/11/2022	BLT-32	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	100	Calling	Low	n/a
9/11/2022	BLT-32	American robin	<i>Turdus migratorius</i>	Landbirds	3	100	Calling	Low	n/a
9/11/2022	BLT-32	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-32	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	100	Singing	Low	n/a
9/11/2022	BLT-32	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	50	Calling	Low	n/a
9/11/2022	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-37	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-37	Canada goose	<i>Branta canadensis</i>	Waterfowl	10	n/a	Flyover	Medium	South
9/11/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	3	100	Calling	Low	n/a
9/11/2022	BLT-37	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	northern flicker	<i>Colaptes auratus</i>	Landbirds	2	100	Calling	Low	n/a
9/11/2022	BLT-43A	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	4	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	6	50	Singing	Low	n/a
9/11/2022	BLT-43A	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	n/a	Foraging	Low	n/a
9/11/2022	BLT-43A	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	unidentified passerine	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-43A	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	5	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/11/2022	BLT-22	unidentified passerine	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-22	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	6	n/a	Calling	Low	n/a
9/11/2022	BLT-22	brown creeper	<i>Certhia americana</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-22	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-22	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	6	n/a	Calling	Low	n/a
9/11/2022	BLT-22	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	n/a	Singing	Low	n/a
9/11/2022	BLT-22	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Singing	Low	n/a
9/11/2022	BLT-22	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-26	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
9/11/2022	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-26	northern parula	<i>Setophaga americana</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-26	ruffed grouse	<i>Bonasa umbellus</i>	Gamebirds	1	n/a	Foraging	Low	n/a
9/11/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-23	brown creeper	<i>Certhia americana</i>	Landbirds	2	n/a	Singing	Low	n/a
9/11/2022	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-23	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-23	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Singing	Low	n/a
9/11/2022	BLT-23	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-23	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Singing	Low	n/a
9/11/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
9/11/2022	BLT-23	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-23	black-backed woodpecker	<i>Picoides arcticus</i>	Landbirds	1	n/a	Foraging	Low	n/a
9/11/2022	BLT-23	unidentified passerine	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-52	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	50	Calling	Low	n/a
9/11/2022	BLT-52	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	n/a	Calling	Low	n/a
9/11/2022	BLT-52	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/11/2022	BLT-52	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Singing	Low	n/a
9/11/2022	BLT-52	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	n/a	Flyover	Low	n/a
9/11/2022	BLT-52	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	n/a	Calling	Low	n/a
9/11/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-52	northern parula	<i>Setophaga americana</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-52	unidentified passerine	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/11/2022	BLT-54	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/11/2022	BLT-54	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	100	Calling	Low	n/a
9/11/2022	BLT-54	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-1	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-1	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-1	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Singing	Low	n/a
9/13/2022	BLT-1	brown creeper	<i>Certhia americana</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-1	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	50	Calling	Low	n/a
9/13/2022	BLT-1	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	2	n/a	Agitated	Low	n/a
9/13/2022	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-6	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-6	common raven	<i>Corvus corax</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-6	broad-winged hawk	<i>Buteo platypterus</i>	Raptors	1	n/a	Foraging	Low	n/a
9/13/2022	BLT-6	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	50	Calling	Low	n/a
9/13/2022	BLT-6	American robin	<i>Turdus migratorius</i>	Landbirds	6	n/a	Calling	Low	n/a
9/13/2022	BLT-6	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-6	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	50	Singing	Low	n/a
9/13/2022	BLT-6	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/13/2022	BLT-6	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-6	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-7	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-7	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-7	unidentified passerine	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-7	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	n/a	Calling	Low	n/a
9/13/2022	BLT-7	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Foraging	Low	n/a
9/13/2022	BLT-7	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-7	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-7	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-17	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Singing	Low	n/a
9/13/2022	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-17	ruby-crowned kinglet	<i>Regulus calendula</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-17	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	4	n/a	Calling	Low	n/a
9/13/2022	BLT-17	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Singing	Low	n/a
9/13/2022	BLT-17	purple finch	<i>Haemorhous purpureus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-17	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	n/a	Calling	Low	n/a
9/13/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	n/a
9/13/2022	BLT-17	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	3	n/a	Foraging	Low	n/a
9/13/2022	BLT-17	American robin	<i>Turdus migratorius</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-17	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-17	pileated woodpecker	<i>Dryocopus pileatus</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/13/2022	BLT-11	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	n/a	Foraging	Low	n/a
9/13/2022	BLT-11	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	100	Calling	Low	n/a
9/13/2022	BLT-11	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	n/a	Singing	Low	n/a
9/13/2022	BLT-11	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-11	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Foraging	Low	n/a
9/13/2022	BLT-11	unidentified passerine	n/a	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-27	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-27	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-27	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-27	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	100	Calling	Low	n/a
9/13/2022	BLT-27	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-27	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-27	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	50	Singing	Low	n/a
9/13/2022	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	50	Calling	Low	n/a
9/13/2022	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	50	Calling	Low	n/a
9/13/2022	BLT-27	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-27	unidentified passerine	n/a	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-30	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	50	Calling	Low	n/a
9/13/2022	BLT-30	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	50	Calling	Low	n/a
9/13/2022	BLT-30	palm warbler	<i>Setophaga palmarum</i>	Landbirds	4	n/a	Calling	Low	n/a
9/13/2022	BLT-30	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-30	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	100	Calling	Low	n/a
9/13/2022	BLT-30	northern flicker	<i>Colaptes auratus</i>	Landbirds	3	100	Calling	Low	n/a
9/13/2022	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-55	Canada goose	<i>Branta canadensis</i>	Waterfowl	5	500	Calling	Low	n/a
9/13/2022	BLT-55	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	4	n/a	Flyover	Low	East
9/13/2022	BLT-55	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	n/a	Flyover	Low	n/a
9/13/2022	BLT-55	white-breasted nuthatch	<i>Sitta carolinensis</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-55	American woodcock	<i>Scolopax minor</i>	Gamebirds	1	1	Foraging	Low	n/a
9/13/2022	BLT-55	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	n/a	Calling	Low	n/a
9/13/2022	BLT-55	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	3	n/a	Calling	Low	n/a
9/13/2022	BLT-55	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	n/a	Calling	Low	n/a
9/13/2022	BLT-55	northern parula	<i>Setophaga americana</i>	Landbirds	3	n/a	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/13/2022	BLT-55	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-55	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-55	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-55	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-55	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	n/a	Calling	Low	n/a
9/13/2022	BLT-55	common raven	<i>Corvus corax</i>	Landbirds	1	500	Calling	Low	n/a
8/29/2022	BLT-43a	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-43a	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	4	<100	Calling	Low	n/a
8/29/2022	BLT-43a	common raven	<i>Corvus corax</i>	Landbirds	2	>100	Calling	Low	n/a
8/29/2022	BLT-43a	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-43a	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-43a	unidentified passerine	n/a	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-43a	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-43a	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	3	<100	Flyover	Low	n/a
8/29/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-37	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	unidentified passerine	n/a	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	4	<100	Calling	Low	n/a
8/29/2022	BLT-37	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	<100	Flyover	Medium	South
8/29/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-32	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	unidentified passerine	n/a	Landbirds	3	<100	Flyover	Medium	South
8/29/2022	BLT-32	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-32	black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/29/2022	BLT-32	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Low	East
8/29/2022	BLT-32	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	<100	Calling	Low	n/a
8/29/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-28	ruby-throated hummingbird	<i>Archilochus colubris</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-28	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-28	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
8/29/2022	BLT-22	unidentified passerine	n/a	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	red crossbill	<i>Loxia curvirostra</i>	Landbirds	3	<100	Calling	Low	n/a
8/29/2022	BLT-22	red-winged blackbird	<i>Agelaius phoeniceus</i>	Landbirds	1	<100	Flyover	Medium	Northeast
8/29/2022	BLT-22	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	6	<100	Calling	Low	n/a
8/29/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-22	blackburnian warbler	<i>Setophaga fusca</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	American goldfinch	<i>Spinus tristis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-22	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	red crossbill	<i>Loxia curvirostra</i>	Landbirds	2	<100	Flyover	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/29/2022	BLT-26	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	black-throated blue warbler	<i>Setophaga caerulescens</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	8	<100	Calling	Low	n/a
8/29/2022	BLT-26	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-23	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-23	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-23	Canada jay	<i>Perisoreus canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-23	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	3	<100	Calling	Low	n/a
8/29/2022	BLT-52	northern parula	<i>Setophaga americana</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	Nashville warbler	<i>Leiothlypis ruficapilla</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	<100	Calling	Low	n/a
8/29/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/29/2022	BLT-52	solitary sandpiper	<i>Tringa solitaria</i>	Shorebirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/30/2022	BLT-55	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	hooded merganser	<i>Lophodytes cucullatus</i>	Waterfowl	1	<100	Flyover	Low	West
8/30/2022	BLT-55	blue jay	<i>Cyanocitta cristata</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-55	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-55	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-55	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-55	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-55	unidentified passerine	n/a	Landbirds	2	<100	Flyover	Medium	South
8/30/2022	BLT-11	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-11	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-11	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Medium	Northwest
8/30/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	<100	Calling	Low	n/a
8/30/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	6	<100	Calling	Low	n/a
8/30/2022	BLT-1	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	4	<100	Calling	Low	n/a
8/30/2022	BLT-1	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-1	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-7	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-7	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	3	<100	Flyover	Low	West
8/30/2022	BLT-7	brown creeper	<i>Certhia americana</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
8/30/2022	BLT-7	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-7	American robin	<i>Turdus migratorius</i>	Landbirds	5	<100	Calling	Low	n/a
8/30/2022	BLT-7	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-7	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-27	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
8/30/2022	BLT-27	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	2	<100	Calling	Low	n/a
8/30/2022	BLT-27	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-27	American redstart	<i>Setophaga ruticilla</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-27	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Flyover	Low	South
8/30/2022	BLT-30	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
8/30/2022	BLT-30	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	blue jay	<i>Cyanocitta cristata</i>	Landbirds	8	<100	Calling	Low	n/a
9/7/2022	BLT-52	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-52	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-52	winter wren	<i>Troglodytes hiemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	7	<100	Calling	Low	n/a
9/7/2022	BLT-52	unidentified passerine	n/a	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-52	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Low	Southwest
9/7/2022	BLT-52	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Medium	Northeast
9/7/2022	BLT-52	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Flyover	Medium	Northeast
9/7/2022	BLT-52	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-52	solitary sandpiper	<i>Tringa solitaria</i>	Shorebirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	5	<100	Calling	Low	n/a
9/7/2022	BLT-52	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/7/2022	BLT-52	red crossbill	<i>Loxia curvirostra</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-52	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-52	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-52	unidentified passerine	n/a	Landbirds	5	<100	Flyover	Medium	South
9/7/2022	BLT-52	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Flyover	Medium	Southwest
9/7/2022	BLT-52	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-23	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-23	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-23	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-23	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Flyover	Low	East
9/7/2022	BLT-23	unidentified passerine	n/a	Landbirds	2	<100	Flyover	Medium	East
9/7/2022	BLT-23	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-23	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	unidentified passerine	n/a	Landbirds	3	<100	Flyover	Low	n/a
9/7/2022	BLT-22	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	<100	Calling	Low	n/a
9/7/2022	BLT-22	downy woodpecker	<i>Dryobates pubescens</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	<100	Flyover	Medium	South
9/7/2022	BLT-22	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-22	unidentified passerine	n/a	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/7/2022	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-28	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	<100	Flyover	Medium	Northeast
9/7/2022	BLT-28	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-28	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-26	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	unidentified passerine	n/a	Landbirds	3	<100	Flyover	Low	Northeast
9/7/2022	BLT-26	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	unidentified passerine	n/a	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	palm warbler	<i>Setophaga palmarum</i>	Landbirds	7	<100	Calling	Low	n/a
9/7/2022	BLT-26	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	4	<100	Calling	Low	n/a
9/7/2022	BLT-26	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-26	white-throated sparrow	<i>Zonotrichia albicollis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-26	northern parula	<i>Setophaga americana</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	bay-breasted warbler	<i>Setophaga castanea</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-26	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-32	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-32	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-32	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-32	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-32	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-32	boreal chickadee	<i>Poecile hudsonicus</i>	Landbirds	2	<100	Calling	Low	n/a
9/7/2022	BLT-37	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-37	unidentified passerine	n/a	Landbirds	2	<100	Flyover	Medium	n/a
9/7/2022	BLT-37	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-37	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/7/2022	BLT-37	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	<100	Flyover	Medium	n/a
9/7/2022	BLT-43a	red-eyed vireo	<i>Vireo olivaceus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-43a	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-43a	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
9/7/2022	BLT-43a	unidentified passerine	n/a	Landbirds	1	<100	Flyover	High	Northeast
9/7/2022	BLT-43a	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-55	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-55	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	American crow	<i>Corvus brachyrhynchos</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-55	Canada goose	<i>Branta canadensis</i>	Waterfowl	1	>100	Calling	Low	n/a
9/8/2022	BLT-55	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-55	purple finch	<i>Haemorhous purpureus</i>	Landbirds	1	n/a	Flyover	Low	n/a
9/8/2022	BLT-55	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Flyover	Medium	Northeast
9/8/2022	BLT-55	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	ovenbird	<i>Seiurus aurocapilla</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-55	brown creeper	<i>Certhia americana</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-11	blackpoll warbler	<i>Setophaga striata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	6	<100	Calling	Low	n/a
9/8/2022	BLT-11	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	unidentified passerine	n/a	Landbirds	5	<100	Calling	Low	n/a
9/8/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-11	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	red-tailed hawk	<i>Buteo jamaicensis</i>	Raptors	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/8/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Flyover	Medium	Northwest
9/8/2022	BLT-11	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	brown creeper	<i>Certhia americana</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	3	<100	Flyover	Low	Northeast
9/8/2022	BLT-11	American robin	<i>Turdus migratorius</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-11	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	magnolia warbler	<i>Setophaga magnolia</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-11	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-11	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-11	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-11	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	7	<100	Calling	Low	n/a
9/8/2022	BLT-11	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	<100	Calling	Low	n/a
9/8/2022	BLT-15	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-15	unidentified passerine	n/a	Landbirds	2	<100	Flyover	High	East
9/8/2022	BLT-15	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Medium	Southwest
9/8/2022	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-15	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-15	palm warbler	<i>Setophaga palmarum</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-15	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	15	<100	Calling	Low	n/a
9/8/2022	BLT-15	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	<100	Calling	Low	n/a
9/8/2022	BLT-15	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-15	American robin	<i>Turdus migratorius</i>	Landbirds	23	<100	Calling	Low	n/a
9/8/2022	BLT-15	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-15	black-and-white warbler	<i>Mniotilta varia</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-15	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-15	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	>100	Calling	Low	n/a
9/8/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-1	American goldfinch	<i>Spinus tristis</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/8/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	4	<100	Calling	Low	n/a
9/8/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	7	<100	Calling	Low	n/a
9/8/2022	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	common raven	<i>Corvus corax</i>	Landbirds	1	>100	Calling	Low	n/a
9/8/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	red crossbill	<i>Loxia curvirostra</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-1	hermit thrush	<i>Catharus guttatus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-1	golden-crowned kinglet	<i>Regulus satrapa</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	swamp sparrow	<i>Melospiza georgiana</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	unidentified passerine	n/a	Landbirds	1	<100	Flyover	Medium	Northeast
9/8/2022	BLT-1	cedar waxwing	<i>Bombycilla cedrorum</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	American robin	<i>Turdus migratorius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	hairy woodpecker	<i>Dryobates villosus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-1	palm warbler	<i>Setophaga palmarum</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-1	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	5	<100	Calling	Low	n/a
9/8/2022	BLT-17	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-17	common yellowthroat	<i>Geothlypis trichas</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-17	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-17	northern flicker	<i>Colaptes auratus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-17	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-17	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-17	blue-headed vireo	<i>Vireo solitarius</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-17	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	3	<100	Calling	Low	n/a
9/8/2022	BLT-17	purple finch	<i>Haemorhous purpureus</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-17	palm warbler	<i>Setophaga palmarum</i>	Landbirds	1	<100	Calling	Low	n/a

AVIAN MIGRATION SURVEY PROGRAM FOR PROPOSED WIND PROJECT NEAR BEAR LAKE, NOVA SCOTIA

Table A1 Migratory Bird Survey Data

Survey Date	Transect ID	Common Name	Scientific Name	Bird Group	Number Observed	Distance (m)	Behaviour	Height	Direction of Travel
9/8/2022	BLT-27	spruce grouse	<i>Falcapennis canadensis</i>	Gamebirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-27	black-capped chickadee	<i>Poecile atricapillus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-27	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-27	unidentified passerine	<i>n/a</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-27	black-throated green warbler	<i>Setophaga virens</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-27	dark-eyed junco	<i>Junco hyemalis</i>	Landbirds	2	<100	Calling	Low	n/a
9/8/2022	BLT-27	yellow-rumped warbler	<i>Setophaga coronata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-27	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-30	blue jay	<i>Cyanocitta cristata</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-30	Swainson's thrush	<i>Catharus ustulatus</i>	Landbirds	1	<100	Calling	Low	n/a
9/8/2022	BLT-30	red-breasted nuthatch	<i>Sitta canadensis</i>	Landbirds	1	<100	Calling	Low	n/a