

## Assessment Area (AA) Results:

Wetland ID: WL10

Date: 08/15/2024

Observer: Mercy Fiamavle

Latitude & Longitude (decimal degrees): 44.87492812, -63.87804598

*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)	7.79	Higher	3.67	Lower	7.76	1.63
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)	4.73	Moderate	8.17	Higher	5.89	4.00
Phosphorus Retention (PR)	0.00	Lower	7.71	Higher	3.64	6.00
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher	10.00	10.00
Carbon Sequestration (CS)	6.52	Higher			8.28	
Organic Nutrient Export (OE)	7.17	Moderate			4.68	
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 (INV)	7.41	Higher	1.02	Lower	6.51	1.79
Amphibian & Turtle Habitat (AM)	2.40	Lower	3.14	Moderate	4.38	4.35
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)	7.34	Moderate	6.67	Moderate	6.38	6.67
Pollinator Habitat (POL)	6.98	Moderate	6.67	Moderate	5.79	6.67
Native Plant Habitat (PH)	2.36	Lower	6.28	Moderate	4.84	6.28
Public Use & Recognition (PU)			1.24	Lower		1.15
Wetland Sensitivity (Sens)			9.29	Higher		4.82
Wetland Ecological Condition (EC)			0.00	Lower		3.61
Wetland Stressors (STR) (higher score means more stress)			6.20	Higher		3.16
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.79	Higher	3.67	Lower	7.76	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.66	Higher	9.31	Higher	8.48	8.33
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.52	Moderate	0.68	Lower	4.66	1.20
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.44	Lower	1.89	Moderate	2.63	2.61
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.45	Moderate	6.60	Moderate	6.03	6.60
WETLAND CONDITION (EC)			0.00	Lower		3.61
WETLAND RISK (average of Sensitivity & Stressors)			7.74	Higher		3.99

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	28.54577068	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	71.30537498	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.765726589	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.718127362	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.5677419	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: WL11

Date: 07/08/2024

Observer: Mercy Fiamavle

Latitude & Longitude (decimal degrees): 44.87468937, -63.87802654

*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)	5.28	Moderate	3.82	Moderate	5.89	1.69
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)	10.00	Higher	1.13	Moderate	10.00	0.56
Phosphorus Retention (PR)	10.00	Higher	1.29	Moderate	10.00	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	0.00	Lower			5.08	
Organic Nutrient Export (OE)	4.54	Moderate			2.97	
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)	2.32	Lower	0.49	Lower	4.44	1.51
Amphibian & Turtle Habitat (AM)	1.49	Lower	2.03	Lower	3.91	3.44
Waterbird Feeding Habitat (WBF)	1.80	Moderate	6.67	Moderate	1.37	6.67
Waterbird Nesting Habitat (WBN)	2.07	Lower	6.67	Higher	1.50	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	2.61	Moderate	6.67	Moderate	2.27	6.67
Pollinator Habitat (POL)	6.87	Moderate	6.67	Moderate	5.69	6.67
Native Plant Habitat (PH)	0.00	Lower	4.88	Lower	3.26	4.88
Public Use & Recognition (PU)			1.24	Lower		1.15
Wetland Sensitivity (Sens)			3.74	Lower		3.24
Wetland Ecological Condition (EC)			0.00	Lower		3.61
Wetland Stressors (STR) (higher score means more stress)			4.75	Moderate		2.47
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	5.28	Moderate	3.82	Moderate	5.89	1.69
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.75	Higher	2.63	Lower	9.38	2.48
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.13	Moderate	0.33	Lower	3.15	1.00
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.57	Lower	4.87	Moderate	2.63	5.01
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.01	Moderate	6.37	Moderate	4.71	6.37
WETLAND CONDITION (EC)			0.00	Lower		3.61
WETLAND RISK (average of Sensitivity & Stressors)			4.24	Lower		2.85

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	20.17532751	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.97350872	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.019474559	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	7.643829558	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	31.91770056	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: WL12

Date: 06/01/2024

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.87299896, -63.87079354

*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)	1.61	Lower	4.06	Moderate	3.15	1.80
Stream Flow Support (SFS)	2.79	Moderate	6.81	Moderate	2.25	4.53
Water Cooling (WC)	6.79	Higher	2.05	Moderate	4.53	1.11
Sediment Retention & Stabilisation (SR)	0.76	Lower	0.91	Lower	2.79	0.44
Phosphorus Retention (PR)	2.81	Lower	0.86	Lower	5.50	0.67
Nitrate Removal & Retention (NR)	3.84	Moderate	7.50	Higher	5.55	7.50
Carbon Sequestration (CS)	4.45	Moderate			7.30	
Organic Nutrient Export (OE)	9.52	Higher			6.22	
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)	5.13	Moderate	4.99	Moderate	5.59	3.93
Amphibian & Turtle Habitat (AM)	5.21	Moderate	4.08	Moderate	5.86	5.12
Waterbird Feeding Habitat (WBF)	6.39	Moderate	2.50	Lower	4.87	2.50
Waterbird Nesting Habitat (WBN)	6.70	Higher	2.50	Moderate	4.86	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.19	Higher	2.50	Lower	8.00	2.50
Pollinator Habitat (POL)	8.55	Higher	0.00	Lower	7.08	0.00
Native Plant Habitat (PH)	4.87	Moderate	5.03	Lower	5.84	5.03
Public Use & Recognition (PU)			0.32	Lower		0.52
Wetland Sensitivity (Sens)			8.69	Higher		4.65
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			4.17	Moderate		2.19
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.61	Lower	4.06	Moderate	3.15	1.80
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.71	Moderate	5.29	Moderate	6.29	5.19
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.79	Higher	5.71	Moderate	5.43	3.86
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.18	Moderate	2.95	Moderate	4.49	3.57
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.37	Higher	3.77	Lower	7.49	3.77
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.43	Moderate		3.42

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	6.534056082	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.63650048	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	44.48310997	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	15.26801114	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	31.53069949	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: WL13

Date: November 4, 2024

Observer: Mercy Fiamavle

Latitude & Longitude (decimal degrees): 44.87324956, -63.87940875

*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)	8.65	Higher	8.20	Higher	8.40	3.64
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	2.04	Moderate	6.11	1.00
Phosphorus Retention (PR)	1.40	Lower	1.93	Moderate	4.62	1.50
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.96	Higher			8.49	
Organic Nutrient Export (OE)	8.74	Higher			5.71	
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)	7.65	Higher	1.14	Moderate	6.61	1.86
Amphibian & Turtle Habitat (AM)	2.84	Lower	3.21	Moderate	4.61	4.40
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)	7.52	Moderate	6.67	Moderate	6.54	6.67
Pollinator Habitat (POL)	7.50	Moderate	6.67	Moderate	6.21	6.67
Native Plant Habitat (PH)	0.79	Lower	6.47	Moderate	4.22	6.47
Public Use & Recognition (PU)			1.15	Lower		1.09
Wetland Sensitivity (Sens)			10.00	Higher		5.08
Wetland Ecological Condition (EC)			0.00	Lower		4.17
Wetland Stressors (STR) (higher score means more stress)			5.03	Moderate		2.60
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.65	Higher	8.20	Higher	8.40	3.64
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.92	Higher	2.88	Lower	8.65	2.64
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.42	Higher	0.76	Lower	4.85	1.24
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.70	Lower	1.92	Moderate	2.77	2.64
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.39	Moderate	6.63	Moderate	6.10	6.63
WETLAND CONDITION (EC)			0.00	Lower		4.17
WETLAND RISK (average of Sensitivity & Stressors)			7.51	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	70.95301402	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.84321817	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.883993669	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.277761157	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.40487098	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: WL14

Date: 07/30/2024

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.87275441, -63.8678967

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)	9.10	Higher	4.29	Moderate	8.74	1.90
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)	5.85	Moderate	0.91	Lower	6.76	0.44
Phosphorus Retention (PR)	1.97	Lower	0.86	Lower	4.98	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	6.29	Moderate			8.18	
Organic Nutrient Export (OE)	9.81	Higher			6.41	
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)	7.40	Higher	1.14	Moderate	6.51	1.86
Amphibian & Turtle Habitat (AM)	3.50	Lower	1.37	Lower	4.96	2.89
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)	7.10	Moderate	2.50	Lower	6.18	2.50
Pollinator Habitat (POL)	5.66	Moderate	0.00	Lower	4.69	0.00
Native Plant Habitat (PH)	3.76	Moderate	3.62	Lower	5.40	3.62
Public Use & Recognition (PU)			0.32	Lower		0.52
Wetland Sensitivity (Sens)			10.00	Higher		5.09
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			5.05	Moderate		2.61
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.10	Higher	4.29	Moderate	8.74	1.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.01	Higher	1.78	Lower	8.74	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.06	Higher	0.76	Lower	4.87	1.24
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.10	Lower	0.82	Lower	2.98	1.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.30	Moderate	2.83	Lower	5.80	2.83
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.52	Higher		3.85

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	39.00895909	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.22910776	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	5.352796934	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.731965262	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	17.85908715	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: WL15

Date: 10/10/2024

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.87239734, -63.89166101

*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)	8.82	Higher	2.84	Lower	8.53	1.26
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	1.95	Lower	0.86	Lower	4.96	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	6.98	Higher			8.50	
Organic Nutrient Export (OE)	7.38	Moderate			4.83	
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)	4.60	Moderate	0.66	Lower	5.37	1.60
Amphibian & Turtle Habitat (AM)	1.09	Lower	2.95	Moderate	3.70	4.19
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)	6.79	Moderate	6.67	Moderate	5.91	6.67
Pollinator Habitat (POL)	6.54	Moderate	6.67	Moderate	5.42	6.67
Native Plant Habitat (PH)	3.12	Lower	6.00	Moderate	5.15	6.00
Public Use & Recognition (PU)			1.94	Moderate		1.63
Wetland Sensitivity (Sens)			8.11	Higher		4.48
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.82	Higher	2.84	Lower	8.53	1.26
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.17	Higher	1.78	Lower	8.84	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.19	Moderate	0.44	Lower	3.96	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.66	Lower	1.77	Lower	2.22	2.52
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.14	Moderate	6.56	Moderate	5.70	6.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.26	Moderate		3.40

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	25.07066631	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.50934184	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.299044275	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.1603432	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	40.2489211	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: WL16

Date: 07/29/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.87255833, -63.86839521

*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)	9.10	Higher	4.29	Moderate	8.74	1.90
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)	5.44	Moderate	1.59	Moderate	6.44	0.78
Phosphorus Retention (PR)	1.77	Lower	0.86	Lower	4.85	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	5.71	Moderate			7.90	
Organic Nutrient Export (OE)	6.82	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)	1.33	Lower	0.75	Lower	4.03	1.65
Amphibian & Turtle Habitat (AM)	1.31	Lower	1.33	Lower	3.81	2.86
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)	6.97	Moderate	2.50	Lower	6.07	2.50
Pollinator Habitat (POL)	7.21	Moderate	0.00	Lower	5.97	0.00
Native Plant Habitat (PH)	3.32	Lower	4.01	Lower	5.23	4.01
Public Use & Recognition (PU)			1.94	Moderate		1.63
Wetland Sensitivity (Sens)			9.54	Higher		4.89
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			5.43	Moderate		2.79
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.10	Higher	4.29	Moderate	8.74	1.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.87	Higher	1.89	Lower	8.65	1.72
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.43	Moderate	0.50	Lower	3.29	1.10
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.79	Lower	0.80	Lower	2.29	1.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.52	Moderate	3.09	Lower	5.91	3.09
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			7.49	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	39.00895909	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.85776893	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.20807012	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.626197239	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	20.16114773	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: WL17

Date: 07/29/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.87249208, -63.87048707

*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)	1.84	Lower	3.89	Moderate	3.32	1.73
Stream Flow Support (SFS)	2.76	Moderate	6.33	Moderate	2.22	4.21
Water Cooling (WC)	5.13	Moderate	1.76	Lower	3.42	0.95
Sediment Retention & Stabilisation (SR)	1.31	Lower	0.76	Lower	3.22	0.37
Phosphorus Retention (PR)	1.78	Lower	0.86	Lower	4.86	0.67
Nitrate Removal & Retention (NR)	1.49	Lower	5.00	Moderate	3.85	5.00
Carbon Sequestration (CS)	4.42	Moderate			7.29	
Organic Nutrient Export (OE)	8.66	Higher			5.66	
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)	2.62	Lower	4.94	Moderate	4.56	3.91
Amphibian & Turtle Habitat (AM)	6.41	Moderate	3.88	Moderate	6.48	4.95
Waterbird Feeding Habitat (WBF)	5.90	Moderate	2.50	Lower	4.49	2.50
Waterbird Nesting Habitat (WBN)	6.34	Moderate	2.50	Moderate	4.60	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.04	Higher	2.50	Lower	7.87	2.50
Pollinator Habitat (POL)	8.32	Higher	0.00	Lower	6.90	0.00
Native Plant Habitat (PH)	3.92	Moderate	4.92	Lower	5.47	4.92
Public Use & Recognition (PU)			1.94	Moderate		1.63
Wetland Sensitivity (Sens)			8.08	Higher		4.47
Wetland Ecological Condition (EC)			1.88	Lower		6.11
Wetland Stressors (STR) (higher score means more stress)			4.26	Moderate		2.23
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.84	Lower	3.89	Moderate	3.32	1.73
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.33	Moderate	3.60	Moderate	6.05	3.51
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.72	Higher	5.34	Moderate	4.81	3.62
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.07	Moderate	2.83	Moderate	4.80	3.47
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.07	Higher	3.70	Lower	7.31	3.70
WETLAND CONDITION (EC)			1.88	Lower		6.11
WETLAND RISK (average of Sensitivity & Stressors)			6.17	Moderate		3.35

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	7.156926866	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	12.01274728	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.87463891	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	14.32079746	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.85051731	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: WL18

Date: 07/29/2024

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.87232513, -63.86790335

*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)	8.82	Higher	4.29	Moderate	8.53	1.90
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)	4.90	Moderate	0.91	Lower	6.02	0.44
Phosphorus Retention (PR)	1.67	Lower	0.86	Lower	4.79	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	6.24	Moderate			8.15	
Organic Nutrient Export (OE)	8.92	Higher			5.83	
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)	3.50	Moderate	0.66	Lower	4.92	1.60
Amphibian & Turtle Habitat (AM)	1.29	Lower	1.22	Lower	3.80	2.77
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)	6.66	Moderate	2.50	Lower	5.80	2.50
Pollinator Habitat (POL)	5.16	Moderate	0.00	Lower	4.28	0.00
Native Plant Habitat (PH)	2.88	Lower	3.36	Lower	5.05	3.36
Public Use & Recognition (PU)			0.32	Lower		0.52
Wetland Sensitivity (Sens)			7.60	Higher		4.34
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.35	Moderate		2.76
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.82	Higher	4.29	Moderate	8.53	1.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.85	Higher	1.78	Lower	8.62	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.01	Higher	0.44	Lower	4.26	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.77	Lower	0.73	Lower	2.28	1.66
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.78	Moderate	2.66	Lower	5.42	2.66
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.47	Moderate		3.55

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	37.81209974	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	13.93967098	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.650148618	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.566776986	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	15.35597797	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: November 4, 2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.87166388, -63.88236907

*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)	2.23	Lower	4.17	Moderate	3.61	1.85
Stream Flow Support (SFS)	2.93	Moderate	7.88	Higher	2.36	5.24
Water Cooling (WC)	4.54	Moderate	1.45	Lower	3.03	0.78
Sediment Retention & Stabilisation (SR)	3.19	Lower	7.75	Higher	4.69	3.80
Phosphorus Retention (PR)	3.22	Moderate	6.86	Higher	5.76	5.33
Nitrate Removal & Retention (NR)	2.85	Moderate	10.00	Higher	4.83	10.00
Carbon Sequestration (CS)	5.56	Moderate			7.83	
Organic Nutrient Export (OE)	9.03	Higher			5.90	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	6.72	Higher	1.97	Moderate	3.65	1.23
Aquatic Invertebrate Habitat (INV)	5.19	Moderate	7.38	Higher	5.61	5.22
Amphibian & Turtle Habitat (AM)	7.08	Higher	6.53	Higher	6.83	7.14
Waterbird Feeding Habitat (WBF)	8.09	Higher	6.67	Moderate	6.16	6.67
Waterbird Nesting Habitat (WBN)	8.36	Higher	6.67	Higher	6.06	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	9.88	Higher	6.67	Moderate	8.60	6.67
Pollinator Habitat (POL)	9.65	Higher	6.67	Moderate	7.99	6.67
Native Plant Habitat (PH)	7.07	Higher	7.75	Higher	6.72	7.75
Public Use & Recognition (PU)			3.29	Moderate		2.56
Wetland Sensitivity (Sens)			9.60	Higher		4.91
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			4.83	Moderate		2.51
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.23	Lower	4.17	Moderate	3.61	1.85
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.63	Moderate	9.10	Higher	6.80	8.19
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.23	Higher	6.72	Moderate	5.07	4.50
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	7.21	Higher	5.52	Higher	5.69	5.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	9.37	Higher	7.39	Moderate	8.19	7.39
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			7.22	Higher		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	9.293734592	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	42.15922301	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	48.61382313	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	39.76607709	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	69.28510735	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: 09/26/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86967623, -63.87493883

*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)	9.21	Higher	4.00	Moderate	8.82	1.78
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)	5.85	Moderate	2.36	Moderate	6.76	1.16
Phosphorus Retention (PR)	2.48	Lower	1.70	Moderate	5.30	1.32
Nitrate Removal & Retention (NR)	10.00	Higher	4.17	Moderate	10.00	4.17
Carbon Sequestration (CS)	6.59	Higher			8.32	
Organic Nutrient Export (OE)	6.75	Moderate			4.41	
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)	3.31	Lower	0.75	Lower	4.84	1.65
Amphibian & Turtle Habitat (AM)	1.03	Lower	1.39	Lower	3.67	2.91
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)	7.15	Moderate	2.50	Lower	6.22	2.50
Pollinator Habitat (POL)	8.13	Higher	0.00	Lower	6.74	0.00
Native Plant Habitat (PH)	3.66	Moderate	4.32	Lower	5.36	4.32
Public Use & Recognition (PU)			2.02	Moderate		1.69
Wetland Sensitivity (Sens)			7.21	Higher		4.23
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			6.61	Higher		3.36
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.21	Higher	4.00	Moderate	8.82	1.78
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.12	Higher	3.45	Moderate	8.80	3.19
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.63	Moderate	0.50	Lower	3.58	1.10
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.62	Lower	0.83	Lower	2.20	1.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.22	Higher	3.30	Lower	6.42	3.30
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.91	Higher		3.79

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	36.88316978	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.03207417	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.317551979	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.517146676	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.82500469	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: 08/08/2024

Observer: Mercy Fiamavle

Latitude & Longitude (decimal degrees): 44.86927647, -63.87549055

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)	8.96	Higher	4.00	Moderate	8.63	1.78
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	1.95	Lower	0.86	Lower	4.96	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.67	Lower	10.00	2.67
Carbon Sequestration (CS)	8.13	Higher			9.04	
Organic Nutrient Export (OE)	8.66	Higher			5.66	
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)	5.45	Higher	0.43	Lower	5.71	1.48
Amphibian & Turtle Habitat (AM)	0.63	Lower	1.06	Lower	3.45	2.63
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)	6.20	Moderate	2.50	Lower	5.40	2.50
Pollinator Habitat (POL)	6.84	Moderate	0.00	Lower	5.67	0.00
Native Plant Habitat (PH)	0.82	Lower	3.69	Lower	4.23	3.69
Public Use & Recognition (PU)			1.67	Moderate		1.45
Wetland Sensitivity (Sens)			5.69	Moderate		3.79
Wetland Ecological Condition (EC)			0.00	Lower		4.17
Wetland Stressors (STR) (higher score means more stress)			4.78	Moderate		2.48
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.96	Higher	4.00	Moderate	8.63	1.78
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.31	Higher	2.07	Lower	8.90	1.96
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.09	Higher	0.29	Lower	4.28	0.98
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.38	Lower	0.63	Lower	2.07	1.58
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.73	Moderate	2.88	Lower	5.39	2.88
WETLAND CONDITION (EC)			0.00	Lower		4.17
WETLAND RISK (average of Sensitivity & Stressors)			5.23	Moderate		3.14

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	35.87686303	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	17.22657883	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.746355543	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.23843128	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	16.49307235	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: 07/29/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86914953, -63.86762691

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)	7.82	Higher	3.89	Moderate	7.78	1.73
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)	2.59	Lower	1.59	Moderate	4.22	0.78
Phosphorus Retention (PR)	1.03	Lower	0.86	Lower	4.39	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	2.31	Lower			6.29	
Organic Nutrient Export (OE)	8.31	Higher			5.43	
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	1.01	Lower	5.13	1.79
Amphibian & Turtle Habitat (AM)	3.36	Lower	2.93	Moderate	4.88	4.17
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)	6.72	Moderate	6.67	Moderate	5.85	6.67
Pollinator Habitat (POL)	8.21	Higher	6.67	Moderate	6.81	6.67
Native Plant Habitat (PH)	4.11	Moderate	6.44	Moderate	5.54	6.44
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			9.63	Higher		4.92
Wetland Ecological Condition (EC)			5.36	Moderate		7.78
Wetland Stressors (STR) (higher score means more stress)			5.53	Moderate		2.84
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.82	Higher	3.89	Moderate	7.78	1.73
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	6.99	Higher	1.89	Lower	8.11	1.72
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.70	Higher	0.68	Lower	4.04	1.19
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.02	Lower	1.76	Lower	2.93	2.50
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.28	Higher	6.63	Moderate	6.44	6.63
WETLAND CONDITION (EC)			5.36	Moderate		7.78
WETLAND RISK (average of Sensitivity & Stressors)			7.58	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	30.41756604	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	13.20803437	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.847681895	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.539176939	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	48.26153451	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: WL23

Date: 09/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.8679306, -63.87406952

*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)	9.35	Higher	3.89	Moderate	8.92	1.73
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)	7.15	Higher	1.13	Moderate	7.78	0.56
Phosphorus Retention (PR)	2.38	Lower	0.43	Lower	5.24	0.33
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	8.41	Higher			9.18	
Organic Nutrient Export (OE)	7.92	Higher			5.17	
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)	5.83	Higher	1.04	Lower	5.87	1.80
Amphibian & Turtle Habitat (AM)	3.15	Lower	1.32	Lower	4.77	2.85
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)	6.95	Moderate	2.50	Lower	6.05	2.50
Pollinator Habitat (POL)	8.09	Higher	0.00	Lower	6.71	0.00
Native Plant Habitat (PH)	5.28	Moderate	4.25	Lower	6.01	4.25
Public Use & Recognition (PU)			2.11	Moderate		1.75
Wetland Sensitivity (Sens)			8.07	Higher		4.47
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			4.58	Moderate		2.39
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.35	Higher	3.89	Moderate	8.92	1.73
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.49	Higher	1.93	Lower	9.02	1.81
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.68	Higher	0.69	Lower	4.32	1.20
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.89	Lower	0.79	Lower	2.86	1.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.43	Higher	3.25	Lower	6.48	3.25
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			6.32	Moderate		3.43

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	36.3875184	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.36710389	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.929416436	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.494351148	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.17078378	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: WL24

Date: 09/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86846398, -63.87809077

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)	2.84	Lower	3.89	Moderate	4.07	1.73
Stream Flow Support (SFS)	3.14	Moderate	6.94	Moderate	2.53	4.62
Water Cooling (WC)	2.90	Moderate	1.30	Lower	1.93	0.70
Sediment Retention & Stabilisation (SR)	2.88	Lower	1.40	Moderate	4.44	0.69
Phosphorus Retention (PR)	2.51	Lower	0.43	Lower	5.32	0.33
Nitrate Removal & Retention (NR)	2.85	Moderate	2.00	Lower	4.84	2.00
Carbon Sequestration (CS)	5.18	Moderate			7.65	
Organic Nutrient Export (OE)	8.02	Higher			5.24	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.51	Moderate	3.60	Moderate	2.45	2.25
Aquatic Invertebrate Habitat (INV)	2.63	Lower	5.68	Moderate	4.56	4.30
Amphibian & Turtle Habitat (AM)	5.30	Moderate	2.77	Moderate	5.90	4.05
Waterbird Feeding Habitat (WBF)	6.88	Higher	0.00	Lower	5.24	0.00
Waterbird Nesting Habitat (WBN)	7.35	Higher	0.00	Lower	5.33	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.93	Higher	0.00	Lower	6.90	0.00
Pollinator Habitat (POL)	10.00	Higher	0.00	Lower	8.29	0.00
Native Plant Habitat (PH)	4.79	Moderate	5.06	Lower	5.81	5.06
Public Use & Recognition (PU)			3.73	Moderate		2.86
Wetland Sensitivity (Sens)			8.22	Higher		4.51
Wetland Ecological Condition (EC)			5.65	Moderate		7.92
Wetland Stressors (STR) (higher score means more stress)			4.91	Moderate		2.54
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.84	Lower	3.89	Moderate	4.07	1.73
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.27	Moderate	1.64	Lower	6.60	1.50
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.10	Higher	5.79	Moderate	4.41	3.91
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.08	Moderate	2.44	Moderate	4.84	2.65
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.79	Higher	3.38	Lower	7.64	3.38
WETLAND CONDITION (EC)			5.65	Moderate		7.92
WETLAND RISK (average of Sensitivity & Stressors)			6.56	Moderate		3.53

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	11.06255789	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	6.989816805	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.31023836	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	14.81619639	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.65653373	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: WL25

Date: 09/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86532077, -63.87836598

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)	2.62	Lower	3.95	Moderate	3.90	1.75
Stream Flow Support (SFS)	7.24	Higher	6.62	Moderate	5.83	4.41
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	1.36	Moderate	5.56	0.67
Phosphorus Retention (PR)	2.04	Lower	0.86	Lower	5.02	0.67
Nitrate Removal & Retention (NR)	2.98	Moderate	2.22	Lower	4.92	2.22
Carbon Sequestration (CS)	6.33	Moderate			8.19	
Organic Nutrient Export (OE)	9.62	Higher			6.29	
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)	4.78	Moderate	1.42	Moderate	5.44	2.01
Amphibian & Turtle Habitat (AM)	3.75	Moderate	0.67	Lower	5.09	2.32
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)	7.99	Higher	0.00	Lower	6.95	0.00
Pollinator Habitat (POL)	8.00	Higher	0.00	Lower	6.63	0.00
Native Plant Habitat (PH)	4.08	Moderate	4.53	Lower	5.53	4.53
Public Use & Recognition (PU)			2.02	Moderate		1.69
Wetland Sensitivity (Sens)			7.78	Higher		4.39
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.43	Moderate		2.32
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.62	Lower	3.95	Moderate	3.90	1.75
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	5.12	Moderate	1.85	Lower	7.06	1.70
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.51	Higher	4.65	Moderate	5.34	3.27
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.25	Lower	0.40	Lower	3.05	1.39
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.34	Higher	3.02	Lower	6.66	3.02
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.11	Moderate		3.35

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	10.34774578	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.477344046	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	34.9443457	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.909023172	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	22.16386635	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: 08/15/2024

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.86571299, -63.87278018

*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)	3.72	Lower	3.89	Moderate	4.72	1.73
Stream Flow Support (SFS)	1.38	Lower	7.30	Moderate	1.11	4.86
Water Cooling (WC)	5.38	Higher	0.65	Lower	3.58	0.35
Sediment Retention & Stabilisation (SR)	3.58	Moderate	1.54	Moderate	4.99	0.75
Phosphorus Retention (PR)	3.55	Moderate	1.34	Moderate	5.97	1.04
Nitrate Removal & Retention (NR)	4.00	Moderate	4.50	Moderate	5.66	4.50
Carbon Sequestration (CS)	5.03	Moderate			7.58	
Organic Nutrient Export (OE)	7.60	Higher			4.97	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.69	Moderate	3.15	Moderate	2.55	1.97
Aquatic Invertebrate Habitat (INV)	5.91	Higher	6.35	Higher	5.90	4.66
Amphibian & Turtle Habitat (AM)	7.14	Higher	3.43	Moderate	6.87	4.59
Waterbird Feeding Habitat (WBF)	7.67	Higher	0.00	Lower	5.84	0.00
Waterbird Nesting Habitat (WBN)	6.62	Higher	0.00	Lower	4.80	0.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.11	Higher	0.00	Lower	7.93	0.00
Pollinator Habitat (POL)	9.52	Higher	0.00	Lower	7.89	0.00
Native Plant Habitat (PH)	4.55	Moderate	5.27	Lower	5.72	5.27
Public Use & Recognition (PU)			2.02	Moderate		1.69
Wetland Sensitivity (Sens)			10.00	Higher		5.35
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			6.65	Higher		3.38
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	3.72	Lower	3.89	Moderate	4.72	1.73
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.54	Moderate	3.48	Moderate	6.81	3.30
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.33	Higher	6.03	Moderate	4.90	4.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.45	Higher	2.38	Moderate	5.44	2.95
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.62	Higher	3.52	Lower	7.56	3.52
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			8.33	Higher		4.36

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	14.47765657	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	15.78548179	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	38.2060729	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	15.31660602	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	30.30682632	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: WL27

Date: November 5, 2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86522253, -63.87720284

*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)	2.48	Lower	4.06	Moderate	3.80	1.80
Stream Flow Support (SFS)	7.24	Higher	6.53	Moderate	5.83	4.35
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	3.71	Moderate	1.59	Moderate	5.09	0.78
Phosphorus Retention (PR)	2.04	Lower	0.86	Lower	5.02	0.67
Nitrate Removal & Retention (NR)	1.75	Lower	2.22	Lower	4.04	2.22
Carbon Sequestration (CS)	4.37	Moderate			7.26	
Organic Nutrient Export (OE)	7.96	Higher			5.20	
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)	2.43	Lower	0.95	Lower	4.48	1.76
Amphibian & Turtle Habitat (AM)	0.87	Lower	3.37	Moderate	3.58	4.54
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)	7.99	Higher	6.67	Moderate	6.96	6.67
Pollinator Habitat (POL)	9.53	Higher	6.67	Moderate	7.89	6.67
Native Plant Habitat (PH)	4.86	Moderate	7.17	Moderate	5.84	7.17
Public Use & Recognition (PU)			3.38	Moderate		2.62
Wetland Sensitivity (Sens)			10.00	Higher		5.37
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			5.22	Moderate		2.70
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.48	Lower	4.06	Moderate	3.80	1.80
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.67	Moderate	1.89	Lower	6.31	1.72
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.18	Higher	4.51	Moderate	4.86	3.19
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.52	Lower	2.02	Moderate	2.15	2.72
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.49	Higher	7.00	Moderate	7.40	7.00
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.61	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	10.07646229	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	6.928205778	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	27.91030799	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.051665864	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.48298921	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: November 5, 2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86532077, -63.87836598

*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)	2.48	Lower	4.06	Moderate	3.80	1.80
Stream Flow Support (SFS)	8.28	Higher	6.78	Moderate	6.67	4.51
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	1.36	Moderate	5.56	0.67
Phosphorus Retention (PR)	2.04	Lower	0.86	Lower	5.02	0.67
Nitrate Removal & Retention (NR)	2.80	Moderate	2.22	Lower	4.80	2.22
Carbon Sequestration (CS)	6.33	Moderate			8.19	
Organic Nutrient Export (OE)	9.62	Higher			6.29	
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)	4.89	Moderate	1.47	Moderate	5.49	2.04
Amphibian & Turtle Habitat (AM)	3.30	Lower	3.54	Moderate	4.85	4.67
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)	8.45	Higher	6.67	Moderate	7.36	6.67
Pollinator Habitat (POL)	8.50	Higher	6.67	Moderate	7.05	6.67
Native Plant Habitat (PH)	4.39	Moderate	7.02	Moderate	5.65	7.02
Public Use & Recognition (PU)			1.76	Moderate		1.51
Wetland Sensitivity (Sens)			8.36	Higher		4.55
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.59	Moderate		2.39
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.48	Lower	4.06	Moderate	3.80	1.80
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	5.10	Moderate	1.85	Lower	7.04	1.70
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.66	Higher	4.77	Moderate	5.64	3.35
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.98	Lower	2.12	Moderate	2.91	2.80
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.81	Higher	6.90	Moderate	7.02	6.90
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.47	Moderate		3.47

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	10.07646229	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.436789833	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	36.499648	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.203281896	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.91348702	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: 07/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86413961, -63.87981286

*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)	8.12	Higher	4.59	Moderate	8.01	2.03
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)	3.71	Moderate	2.04	Moderate	5.09	1.00
Phosphorus Retention (PR)	1.46	Lower	1.29	Moderate	4.66	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.69	Higher			8.37	
Organic Nutrient Export (OE)	7.00	Moderate			4.58	
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)	4.25	Moderate	1.12	Lower	5.23	1.84
Amphibian & Turtle Habitat (AM)	3.22	Lower	3.09	Moderate	4.81	4.31
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)	7.19	Moderate	6.67	Moderate	6.25	6.67
Pollinator Habitat (POL)	5.84	Moderate	6.67	Moderate	4.84	6.67
Native Plant Habitat (PH)	2.75	Lower	5.92	Moderate	5.00	5.92
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			9.94	Higher		5.00
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.70	Moderate		2.92
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.12	Higher	4.59	Moderate	8.01	2.03
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.73	Higher	2.78	Lower	8.51	2.56
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.91	Moderate	0.74	Lower	3.84	1.23
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.93	Lower	1.85	Moderate	2.89	2.58
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.22	Moderate	6.54	Moderate	5.81	6.54
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.82	Higher		3.96

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	37.24056108	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.47147508	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.649121185	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.584922696	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	40.70835829	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: 07/31/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.86411708, -63.87029254

*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)	7.54	Moderate	3.83	Moderate	7.57	1.70
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)	2.03	Lower	2.04	Moderate	3.78	1.00
Phosphorus Retention (PR)	0.91	Lower	1.29	Moderate	4.32	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	5.67	Moderate			7.88	
Organic Nutrient Export (OE)	7.74	Higher			5.06	
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)	1.30	Lower	0.70	Lower	4.02	1.62
Amphibian & Turtle Habitat (AM)	1.02	Lower	3.01	Moderate	3.66	4.24
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)	6.97	Moderate	6.67	Moderate	6.06	6.67
Pollinator Habitat (POL)	8.88	Higher	6.67	Moderate	7.36	6.67
Native Plant Habitat (PH)	3.71	Moderate	6.70	Moderate	5.38	6.70
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			9.55	Higher		4.89
Wetland Ecological Condition (EC)			2.46	Lower		6.39
Wetland Stressors (STR) (higher score means more stress)			5.27	Moderate		2.72
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.54	Moderate	3.83	Moderate	7.57	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.33	Higher	2.78	Lower	8.25	2.56
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.00	Moderate	0.47	Lower	3.66	1.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.61	Lower	1.81	Moderate	2.20	2.55
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.70	Higher	6.69	Moderate	6.81	6.69
WETLAND CONDITION (EC)			2.46	Lower		6.39
WETLAND RISK (average of Sensitivity & Stressors)			7.41	Higher		3.80

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	28.89948105	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.34394777	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.329987623	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.108807296	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.49027911	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: 07/31/2024

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.86340739, -63.87005081

*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)	8.51	Higher	3.83	Moderate	8.30	1.70
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)	3.59	Moderate	1.36	Moderate	5.00	0.67
Phosphorus Retention (PR)	1.99	Lower	1.29	Moderate	4.99	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	6.12	Moderate			8.09	
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 (INV)	6.91	Higher	1.08	Lower	6.31	1.83
Amphibian & Turtle Habitat (AM)	3.30	Lower	3.03	Moderate	4.85	4.26
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)	7.01	Moderate	6.67	Moderate	6.10	6.67
Pollinator Habitat (POL)	6.56	Moderate	6.67	Moderate	5.44	6.67
Native Plant Habitat (PH)	4.32	Moderate	6.07	Moderate	5.62	6.07
Public Use & Recognition (PU)			0.23	Lower		0.46
Wetland Sensitivity (Sens)			9.55	Higher		4.89
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			7.44	Higher		3.75
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.51	Higher	3.83	Moderate	8.30	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.71	Higher	3.77	Moderate	8.51	3.61
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.11	Higher	0.72	Lower	5.15	1.22
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.98	Lower	1.82	Moderate	2.91	2.55
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.49	Moderate	6.57	Moderate	5.91	6.57
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			8.49	Higher		4.32

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	32.64754059	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.11198473	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	5.123984368	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.593786199	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	42.60746507	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: WL32

Date: 2024/08/06

Observer: Mercy Fiamavle

Latitude & Longitude (decimal degrees): 44.86379065, -63.87848143

*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)	7.79	Higher	4.57	Moderate	7.76	2.03
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	1.98	Moderate	6.11	0.97
Phosphorus Retention (PR)	1.22	Lower	1.34	Moderate	4.51	1.04
Nitrate Removal & Retention (NR)	10.00	Higher	3.50	Lower	10.00	3.50
Carbon Sequestration (CS)	9.01	Higher			9.46	
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)	1.98	Lower	0.67	Lower	4.30	1.60
Amphibian & Turtle Habitat (AM)	0.83	Lower	1.66	Lower	3.56	3.13
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)	6.96	Moderate	3.33	Moderate	6.06	3.33
Pollinator Habitat (POL)	7.35	Moderate	3.33	Moderate	6.09	3.33
Native Plant Habitat (PH)	1.59	Lower	5.16	Lower	4.54	5.16
Public Use & Recognition (PU)			1.33	Lower		1.21
Wetland Sensitivity (Sens)			6.27	Moderate		3.96
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.20	Higher		3.16
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.79	Higher	4.57	Moderate	7.76	2.03
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.16	Higher	2.89	Lower	8.76	2.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.86	Higher	0.44	Lower	4.21	1.07
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.50	Lower	1.00	Lower	2.14	1.88
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.32	Moderate	4.55	Lower	5.82	4.55
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.24	Moderate		3.56

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	35.57242192	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.54679034	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.599507505	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.494955032	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.7665919	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: WL33

Date: 07/31/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.8610586, -63.87106634

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)	8.51	Higher	3.83	Moderate	8.30	1.70
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)	4.02	Moderate	2.04	Moderate	5.33	1.00
Phosphorus Retention (PR)	1.79	Lower	1.29	Moderate	4.87	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.16	Higher			8.59	
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)	4.83	Moderate	0.85	Lower	5.46	1.70
Amphibian & Turtle Habitat (AM)	1.23	Lower	3.17	Moderate	3.77	4.37
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)	7.41	Moderate	6.67	Moderate	6.45	6.67
Pollinator Habitat (POL)	7.80	Moderate	6.67	Moderate	6.47	6.67
Native Plant Habitat (PH)	4.28	Moderate	6.53	Moderate	5.61	6.53
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			10.00	Higher		5.46
Wetland Ecological Condition (EC)			5.36	Moderate		7.78
Wetland Stressors (STR) (higher score means more stress)			5.27	Moderate		2.72
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.51	Higher	3.83	Moderate	8.30	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.87	Higher	2.78	Lower	8.60	2.56
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.60	Moderate	0.57	Lower	3.94	1.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.74	Lower	1.90	Moderate	2.26	2.62
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.15	Higher	6.64	Moderate	6.32	6.64
WETLAND CONDITION (EC)			5.36	Moderate		7.78
WETLAND RISK (average of Sensitivity & Stressors)			7.63	Higher		4.09

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	32.64754059	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.85780186	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.609700325	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.397438757	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.51121606	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: 07/31/2024

Observer: Renee MacQuarrie

Latitude & Longitude (decimal degrees): 44.85941406, -63.87109615

*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)	1.20	Lower	3.83	Moderate	2.84	1.70
Stream Flow Support (SFS)	3.28	Moderate	6.30	Moderate	2.64	4.20
Water Cooling (WC)	4.92	Moderate	1.29	Lower	3.28	0.70
Sediment Retention & Stabilisation (SR)	0.32	Lower	1.36	Moderate	2.44	0.67
Phosphorus Retention (PR)	2.05	Lower	1.29	Moderate	5.03	1.00
Nitrate Removal & Retention (NR)	2.85	Moderate	5.00	Moderate	4.83	5.00
Carbon Sequestration (CS)	3.91	Moderate			7.05	
Organic Nutrient Export (OE)	8.39	Higher			5.49	
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	4.58	Moderate	4.77	3.71
Amphibian & Turtle Habitat (AM)	4.94	Moderate	5.55	Higher	5.71	6.33
Waterbird Feeding Habitat (WBF)	5.66	Moderate	6.67	Moderate	4.31	6.67
Waterbird Nesting Habitat (WBN)	5.83	Moderate	6.67	Higher	4.23	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	9.23	Higher	6.67	Moderate	8.03	6.67
Pollinator Habitat (POL)	7.96	Higher	6.67	Moderate	6.59	6.67
Native Plant Habitat (PH)	4.50	Moderate	7.10	Moderate	5.70	7.10
Public Use & Recognition (PU)			0.32	Lower		0.52
Wetland Sensitivity (Sens)			3.83	Lower		3.26
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			4.34	Moderate		2.27
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.20	Lower	3.83	Moderate	2.84	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.09	Moderate	3.77	Moderate	5.94	3.61
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.66	Higher	5.18	Moderate	4.76	3.53
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.56	Moderate	5.22	Higher	4.28	5.30
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.23	Higher	6.95	Moderate	7.40	6.95
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			4.09	Lower		2.77

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	4.605490932	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	11.67805599	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	34.52070023	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	23.79274542	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	57.21632467	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: 08/23/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.84418078, -63.89969562

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)	8.51	Higher	3.46	Lower	8.30	1.53
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	2.04	Moderate	5.56	1.00
Phosphorus Retention (PR)	1.99	Lower	7.14	Higher	4.99	5.56
Nitrate Removal & Retention (NR)	10.00	Higher	5.56	Moderate	10.00	5.56
Carbon Sequestration (CS)	6.91	Higher			8.47	
Organic Nutrient Export (OE)	9.49	Higher			6.20	
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)	4.59	Moderate	0.80	Lower	5.37	1.68
Amphibian & Turtle Habitat (AM)	2.54	Lower	2.83	Moderate	4.45	4.09
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)	6.44	Moderate	6.67	Moderate	5.60	6.67
Pollinator Habitat (POL)	6.44	Moderate	6.67	Moderate	5.33	6.67
Native Plant Habitat (PH)	2.06	Lower	5.87	Moderate	4.72	5.87
Public Use & Recognition (PU)			3.15	Moderate		2.46
Wetland Sensitivity (Sens)			10.00	Higher		5.16
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			7.05	Higher		3.57
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.51	Higher	3.46	Lower	8.30	1.53
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.90	Higher	6.03	Moderate	8.63	4.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.50	Higher	0.53	Lower	4.55	1.12
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.52	Lower	1.70	Lower	2.67	2.45
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.71	Moderate	6.53	Moderate	5.41	6.53
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			8.52	Higher		4.36

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	29.43079762	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	47.62454137	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.479475221	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.580329682	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	37.29040447	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: WL36

Date: November 4, 2024

Observer: EM

Latitude & Longitude (decimal degrees): 44.84353509, -63.90415025

*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)	3.25	Lower	2.54	Lower	4.37	1.13
Stream Flow Support (SFS)	0.94	Lower	0.00	Lower	0.76	0.00
Water Cooling (WC)	0.63	Lower	0.00	Lower	0.42	0.00
Sediment Retention & Stabilisation (SR)	1.36	Lower	2.25	Moderate	3.26	1.10
Phosphorus Retention (PR)	0.00	Lower	2.05	Moderate	3.42	1.60
Nitrate Removal & Retention (NR)	1.70	Lower	4.83	Moderate	4.00	4.83
Carbon Sequestration (CS)	0.98	Lower			5.66	
Organic Nutrient Export (OE)	7.53	Higher			4.92	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	4.59	Moderate	4.26	Moderate	2.49	2.66
Aquatic Invertebrate Habitat (INV)	3.61	Moderate	4.72	Moderate	4.97	3.78
Amphibian & Turtle Habitat (AM)	6.71	Higher	4.74	Moderate	6.64	5.66
Waterbird Feeding Habitat (WBF)	4.34	Moderate	6.67	Moderate	3.31	6.67
Waterbird Nesting Habitat (WBN)	4.48	Moderate	6.67	Higher	3.25	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	8.06	Higher	6.67	Moderate	7.02	6.67
Pollinator Habitat (POL)	7.31	Moderate	6.67	Moderate	6.06	6.67
Native Plant Habitat (PH)	0.83	Lower	6.58	Moderate	4.23	6.58
Public Use & Recognition (PU)			2.76	Moderate		2.20
Wetland Sensitivity (Sens)			4.30	Lower		3.40
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			7.84	Higher		3.95
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	3.25	Lower	2.54	Lower	4.37	1.13
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	1.36	Lower	3.94	Moderate	4.87	3.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.36	Moderate	3.14	Lower	3.87	2.52
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.37	Moderate	5.57	Higher	4.89	5.50
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.73	Moderate	6.65	Moderate	6.39	6.65
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.07	Moderate		3.67

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	8.243290796	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	5.341142149	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	16.84061447	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	29.88182078	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	44.77245619	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: WL37

Date: 08/23/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.84310394, -63.8975137

*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)	6.43	Moderate	3.83	Moderate	6.74	1.70
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	3.25	Moderate	0.00	Lower	2.17	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.70	Moderate	10.00	0.83
Phosphorus Retention (PR)	10.00	Higher	7.14	Higher	10.00	5.56
Nitrate Removal & Retention (NR)	10.00	Higher	5.56	Moderate	10.00	5.56
Carbon Sequestration (CS)	4.73	Moderate			7.43	
Organic Nutrient Export (OE)	8.28	Higher			5.41	
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)	3.82	Moderate	4.79	Moderate	5.05	3.82
Amphibian & Turtle Habitat (AM)	6.09	Moderate	5.56	Higher	6.31	6.34
Waterbird Feeding Habitat (WBF)	5.68	Moderate	6.67	Moderate	4.32	6.67
Waterbird Nesting Habitat (WBN)	5.90	Moderate	6.67	Higher	4.27	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	9.23	Higher	6.67	Moderate	8.03	6.67
Pollinator Habitat (POL)	7.80	Moderate	6.67	Moderate	6.46	6.67
Native Plant Habitat (PH)	3.24	Lower	7.05	Moderate	5.19	7.05
Public Use & Recognition (PU)			3.15	Moderate		2.46
Wetland Sensitivity (Sens)			9.21	Higher		4.80
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			7.05	Higher		3.57
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.43	Moderate	3.83	Moderate	6.74	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.34	Higher	5.97	Moderate	9.68	4.77
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.06	Higher	3.19	Lower	4.29	2.55
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.81	Moderate	5.22	Higher	4.65	5.30
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.99	Higher	6.92	Moderate	7.30	6.92
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			8.13	Higher		4.18

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	24.64001657	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	55.777313	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	19.35388397	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	25.11370675	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.3301215	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: WL38

Date: 08/24/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.8431203, -63.87791834

*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)	7.79	Higher	4.23	Moderate	7.76	1.88
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	2.04	Moderate	6.11	1.00
Phosphorus Retention (PR)	1.22	Lower	5.71	Higher	4.51	4.44
Nitrate Removal & Retention (NR)	10.00	Higher	4.44	Moderate	10.00	4.44
Carbon Sequestration (CS)	7.83	Higher			8.91	
Organic Nutrient Export (OE)	8.85	Higher			5.79	
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)	5.75	Higher	1.09	Lower	5.84	1.83
Amphibian & Turtle Habitat (AM)	3.04	Lower	3.09	Moderate	4.72	4.31
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)	7.19	Moderate	6.67	Moderate	6.26	6.67
Pollinator Habitat (POL)	6.12	Moderate	6.67	Moderate	5.07	6.67
Native Plant Habitat (PH)	2.77	Lower	6.00	Moderate	5.01	6.00
Public Use & Recognition (PU)			2.46	Moderate		1.98
Wetland Sensitivity (Sens)			9.41	Higher		4.85
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.84	Moderate		2.99
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.79	Higher	4.23	Moderate	7.76	1.88
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.01	Higher	4.89	Moderate	8.69	3.87
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.25	Higher	0.72	Lower	4.37	1.22
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.82	Lower	1.85	Moderate	2.83	2.59
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.28	Moderate	6.56	Moderate	5.85	6.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.63	Higher		3.92

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	32.93742771	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	39.16626983	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.527253929	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.381129538	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	41.13836243	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: WL39

Date: 08/23/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.84281527, -63.89387023

*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)	6.50	Moderate	1.52	Lower	6.79	0.68
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	0.50	Lower	0.00	Lower	0.33	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.70	Moderate	10.00	0.83
Phosphorus Retention (PR)	10.00	Higher	7.14	Higher	10.00	5.56
Nitrate Removal & Retention (NR)	10.00	Higher	5.56	Moderate	10.00	5.56
Carbon Sequestration (CS)	3.33	Moderate			6.77	
Organic Nutrient Export (OE)	4.37	Moderate			2.86	
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)	2.14	Lower	4.55	Moderate	4.36	3.70
Amphibian & Turtle Habitat (AM)	7.05	Higher	5.36	Moderate	6.82	6.18
Waterbird Feeding Habitat (WBF)	5.95	Moderate	6.67	Moderate	4.53	6.67
Waterbird Nesting Habitat (WBN)	4.83	Moderate	6.67	Higher	3.50	6.67
Songbird, Raptor, & Mammal Habitat (SBM)	8.43	Higher	6.67	Moderate	7.33	6.67
Pollinator Habitat (POL)	6.99	Moderate	6.67	Moderate	5.79	6.67
Native Plant Habitat (PH)	0.00	Lower	6.60	Moderate	3.89	6.60
Public Use & Recognition (PU)			3.15	Moderate		2.46
Wetland Sensitivity (Sens)			6.33	Moderate		3.97
Wetland Ecological Condition (EC)			0.00	Lower		5.00
Wetland Stressors (STR) (higher score means more stress)			7.05	Higher		3.57
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.50	Moderate	1.52	Lower	6.79	0.68
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.17	Higher	5.97	Moderate	9.60	4.77
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.06	Moderate	3.04	Lower	3.13	2.46
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.31	Moderate	5.20	Higher	4.89	5.28
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.78	Higher	6.66	Moderate	6.50	6.66
WETLAND CONDITION (EC)			0.00	Lower		5.00
WETLAND RISK (average of Sensitivity & Stressors)			6.69	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	9.892873141	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	54.73415583	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.294564585	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	27.62286692	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	45.13357624	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: WL40

Date: 08/23/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.6819896, -63.50345382

*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)	6.78	Moderate	6.75	Higher	7.01	2.99
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	5.90	Higher	0.00	Lower	3.93	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.16	Moderate	10.00	1.06
Phosphorus Retention (PR)	10.00	Higher	7.14	Higher	10.00	5.56
Nitrate Removal & Retention (NR)	10.00	Higher	5.56	Moderate	10.00	5.56
Carbon Sequestration (CS)	4.59	Moderate			7.37	
Organic Nutrient Export (OE)	5.92	Moderate			3.87	
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)	3.72	Moderate	4.84	Moderate	5.01	3.85
Amphibian & Turtle Habitat (AM)	4.58	Moderate	7.23	Higher	5.52	7.72
Waterbird Feeding Habitat (WBF)	6.87	Higher	10.00	Higher	5.23	10.00
Waterbird Nesting Habitat (WBN)	6.10	Moderate	10.00	Higher	4.42	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.11	Higher	10.00	Higher	7.93	10.00
Pollinator Habitat (POL)	8.25	Higher	10.00	Higher	6.84	10.00
Native Plant Habitat (PH)	0.82	Lower	8.25	Higher	4.23	8.25
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			6.71	Moderate		4.08
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.96	Moderate		3.05
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.78	Moderate	6.75	Higher	7.01	2.99
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.32	Higher	6.05	Moderate	9.67	4.81
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.90	Moderate	3.23	Lower	4.11	2.57
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.19	Moderate	7.72	Higher	4.28	7.77
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.58	Higher	9.71	Higher	7.13	9.71
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			6.33	Moderate		3.56

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	45.75905633	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	56.38214733	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	15.81149555	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	40.06243667	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	73.60943336	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: WL41

Date: 08/24/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.84100768, -63.87760686

*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)	0.94	Lower	6.88	Higher	2.65	3.05
Stream Flow Support (SFS)	2.69	Moderate	6.97	Moderate	2.17	4.64
Water Cooling (WC)	3.15	Moderate	1.33	Lower	2.10	0.72
Sediment Retention & Stabilisation (SR)	0.00	Lower	2.04	Moderate	2.00	1.00
Phosphorus Retention (PR)	0.22	Lower	7.14	Higher	3.88	5.56
Nitrate Removal & Retention (NR)	0.83	Lower	5.56	Moderate	3.37	5.56
Carbon Sequestration (CS)	2.24	Lower			6.26	
Organic Nutrient Export (OE)	6.59	Moderate			4.31	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	3.79	Moderate	1.22	Lower	2.06	0.76
Aquatic Invertebrate Habitat (INV)	1.65	Lower	4.41	Moderate	4.17	3.62
Amphibian & Turtle Habitat (AM)	4.29	Moderate	3.12	Moderate	5.37	4.33
Waterbird Feeding Habitat (WBF)	4.98	Moderate	3.33	Moderate	3.79	3.33
Waterbird Nesting Habitat (WBN)	5.25	Moderate	2.50	Moderate	3.80	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	7.69	Higher	2.50	Lower	6.69	2.50
Pollinator Habitat (POL)	8.47	Higher	0.00	Lower	7.02	0.00
Native Plant Habitat (PH)	2.35	Lower	4.57	Lower	4.84	4.57
Public Use & Recognition (PU)			2.37	Moderate		1.92
Wetland Sensitivity (Sens)			5.20	Moderate		3.65
Wetland Ecological Condition (EC)			1.88	Lower		6.11
Wetland Stressors (STR) (higher score means more stress)			5.79	Moderate		2.97
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	0.94	Lower	6.88	Higher	2.65	3.05
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	1.53	Lower	6.03	Moderate	5.07	4.80
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.06	Moderate	5.60	Moderate	3.75	3.82
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.45	Moderate	2.68	Moderate	4.19	3.26
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.32	Higher	3.46	Lower	6.60	3.46
WETLAND CONDITION (EC)			1.88	Lower		6.11
WETLAND RISK (average of Sensitivity & Stressors)			5.50	Moderate		3.31

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	6.451305431	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	9.233241587	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	28.33225959	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	11.95366317	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	25.34421128	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: WL42

Date: 08/23/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.84091169, -63.87824722

*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)	6.46	Moderate	6.88	Higher	6.76	3.05
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	3.67	Moderate	0.00	Lower	2.44	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.82	Moderate	10.00	1.38
Phosphorus Retention (PR)	10.00	Higher	7.14	Higher	10.00	5.56
Nitrate Removal & Retention (NR)	10.00	Higher	5.83	Moderate	10.00	5.83
Carbon Sequestration (CS)	1.65	Lower			5.97	
Organic Nutrient Export (OE)	4.71	Moderate			3.08	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	3.84	Moderate	1.55	Moderate	2.09	0.97
Aquatic Invertebrate Habitat (INV)	0.89	Lower	5.41	Moderate	3.86	4.16
Amphibian & Turtle Habitat (AM)	5.70	Moderate	3.99	Moderate	6.11	5.05
Waterbird Feeding Habitat (WBF)	6.37	Moderate	3.33	Moderate	4.85	3.33
Waterbird Nesting Habitat (WBN)	5.64	Moderate	2.50	Moderate	4.09	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	8.96	Higher	2.50	Lower	7.80	2.50
Pollinator Habitat (POL)	7.96	Higher	0.00	Lower	6.60	0.00
Native Plant Habitat (PH)	1.03	Lower	4.80	Lower	4.31	4.80
Public Use & Recognition (PU)			2.37	Moderate		1.92
Wetland Sensitivity (Sens)			5.63	Moderate		3.77
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			8.84	Higher		4.43
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.46	Moderate	6.88	Higher	6.76	3.05
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.96	Higher	6.20	Moderate	9.50	5.04
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	3.51	Moderate	3.60	Lower	3.10	2.77
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.34	Moderate	3.13	Moderate	4.77	3.71
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.47	Higher	3.62	Lower	7.02	3.62
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.23	Higher		4.10

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	44.42666275	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	55.56109034	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.65827514	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	16.71664952	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	27.01277355	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: WL43

Date: 08/22/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.83571532, -63.87921047

*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	4.34	Moderate	8.32	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)	4.42	Moderate	1.93	Moderate	5.65	0.94
Phosphorus Retention (PR)	1.75	Lower	1.29	Moderate	4.84	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.25	Moderate			8.16	
Organic Nutrient Export (OE)	8.53	Higher			5.58	
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)	5.47	Higher	1.21	Moderate	5.72	1.89
Amphibian & Turtle Habitat (AM)	3.42	Lower	1.82	Lower	4.92	3.26
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)	7.41	Moderate	3.33	Moderate	6.45	3.33
Pollinator Habitat (POL)	6.17	Moderate	3.33	Moderate	5.11	3.33
Native Plant Habitat (PH)	3.59	Moderate	4.97	Lower	5.34	4.97
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			7.74	Higher		4.38
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			5.44	Moderate		2.80
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.54	Higher	4.34	Moderate	8.32	1.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.80	Higher	2.76	Lower	8.58	2.55
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.02	Higher	0.81	Lower	4.28	1.26
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.05	Lower	1.09	Lower	2.95	1.96
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.57	Moderate	4.42	Lower	6.04	4.42
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.59	Moderate		3.59

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	37.08979936	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.52028583	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.847345176	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.242098147	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.0472529	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: WL44

Date: 08/22/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.83575478, -63.87958075

*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	4.29	Moderate	8.32	1.90
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)	4.42	Moderate	1.81	Moderate	5.65	0.89
Phosphorus Retention (PR)	1.75	Lower	1.29	Moderate	4.84	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	5.72	Moderate			7.91	
Organic Nutrient Export (OE)	8.53	Higher			5.58	
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)	5.72	Higher	1.29	Moderate	5.83	1.94
Amphibian & Turtle Habitat (AM)	3.52	Lower	1.57	Lower	4.97	3.06
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)	7.66	Higher	2.50	Lower	6.67	2.50
Pollinator Habitat (POL)	6.62	Moderate	0.00	Lower	5.49	0.00
Native Plant Habitat (PH)	3.99	Moderate	4.05	Lower	5.49	4.05
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			7.09	Moderate		4.19
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.75	Moderate		2.47
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.54	Higher	4.29	Moderate	8.32	1.90
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.74	Higher	2.74	Lower	8.55	2.54
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.05	Higher	0.86	Lower	4.34	1.29
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.11	Lower	0.94	Lower	2.98	1.83
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.88	Higher	3.12	Lower	6.28	3.12
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.92	Moderate		3.33

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	36.60811366	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.19217199	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	5.209175881	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.992198113	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	21.44080526	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: WL45

Date: 08/22/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.83477635, -63.87733317

*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	4.34	Moderate	8.32	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	1.93	Moderate	6.11	0.94
Phosphorus Retention (PR)	1.75	Lower	1.29	Moderate	4.84	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.60	Higher			8.32	
Organic Nutrient Export (OE)	8.53	Higher			5.58	
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)	5.59	Higher	1.39	Moderate	5.77	2.00
Amphibian & Turtle Habitat (AM)	5.29	Moderate	1.33	Lower	5.89	2.86
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)	6.98	Moderate	2.50	Lower	6.08	2.50
Pollinator Habitat (POL)	6.37	Moderate	0.00	Lower	5.28	0.00
Native Plant Habitat (PH)	3.09	Lower	3.79	Lower	5.14	3.79
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			5.87	Moderate		3.84
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.57	Moderate		2.38
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.54	Higher	4.34	Moderate	8.32	1.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.92	Higher	2.76	Lower	8.66	2.55
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.03	Higher	0.93	Lower	4.31	1.33
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.17	Moderate	0.80	Lower	3.54	1.72
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.23	Moderate	2.94	Lower	5.79	2.94
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.22	Moderate		3.11

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	37.08979936	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.84607152	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	5.607073478	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.533529899	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	18.32209038	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: WL46

Date: 08/21/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.83180048, -63.87093859

*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)	0.98	Lower	4.57	Moderate	2.68	2.03
Stream Flow Support (SFS)	2.62	Moderate	7.21	Moderate	2.11	4.80
Water Cooling (WC)	4.50	Moderate	1.87	Lower	3.00	1.01
Sediment Retention & Stabilisation (SR)	0.00	Lower	1.36	Moderate	1.96	0.67
Phosphorus Retention (PR)	0.44	Lower	1.29	Moderate	4.02	1.00
Nitrate Removal & Retention (NR)	2.10	Lower	3.33	Lower	4.29	3.33
Carbon Sequestration (CS)	4.08	Moderate			7.13	
Organic Nutrient Export (OE)	8.49	Higher			5.55	
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)	2.42	Lower	4.34	Moderate	4.48	3.58
Amphibian & Turtle Habitat (AM)	5.85	Moderate	4.56	Moderate	6.19	5.52
Waterbird Feeding Habitat (WBF)	4.81	Moderate	5.00	Moderate	3.66	5.00
Waterbird Nesting Habitat (WBN)	5.19	Moderate	5.00	Higher	3.76	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.06	Higher	5.00	Moderate	7.89	5.00
Pollinator Habitat (POL)	8.03	Higher	0.00	Lower	6.66	0.00
Native Plant Habitat (PH)	2.45	Lower	4.85	Lower	4.88	4.85
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			7.40	Higher		4.28
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	0.98	Lower	4.57	Moderate	2.68	2.03
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.87	Moderate	2.66	Lower	5.74	2.50
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.50	Higher	5.84	Moderate	4.67	3.96
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.51	Moderate	3.96	Moderate	4.46	4.31
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.79	Higher	4.14	Lower	7.18	4.14
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			5.88	Moderate		3.28

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	4.465472355	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	7.642305961	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	37.95740029	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	17.84755396	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.24782568	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: WL47

Date: 08/21/2024

Observer: Maggie Trask

Latitude & Longitude (decimal degrees): 44.82557203, -63.87252356

*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)	8.68	Higher	4.12	Moderate	8.42	1.83
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	0.91	Lower	6.67	0.44
Phosphorus Retention (PR)	1.65	Lower	0.86	Lower	4.78	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.66	Higher			8.82	
Organic Nutrient Export (OE)	8.02	Higher			5.24	
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)	2.28	Lower	0.83	Lower	4.42	1.69
Amphibian & Turtle Habitat (AM)	2.80	Lower	2.13	Lower	4.59	3.52
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)	6.39	Moderate	5.00	Moderate	5.56	5.00
Pollinator Habitat (POL)	8.41	Higher	0.00	Lower	6.97	0.00
Native Plant Habitat (PH)	2.33	Lower	4.18	Lower	4.83	4.18
Public Use & Recognition (PU)			1.68	Moderate		1.45
Wetland Sensitivity (Sens)			10.00	Higher		5.15
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.68	Higher	4.12	Moderate	8.42	1.83
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.13	Higher	1.78	Lower	8.78	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.30	Moderate	0.55	Lower	3.83	1.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.68	Lower	1.28	Lower	2.75	2.11
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.06	Higher	4.03	Lower	6.38	4.03
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.18	Higher		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	35.73786399	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.43519272	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.936566591	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.148498092	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.44300163	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: WL48

Date: 08/02/2024

Observer: Brayden Thomas

Latitude & Longitude (decimal degrees): 44.80161131, -63.89527151

*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)	3.57	Lower	5.92	Moderate	4.61	2.63
Stream Flow Support (SFS)	1.63	Moderate	5.24	Moderate	1.31	3.49
Water Cooling (WC)	1.75	Lower	0.59	Lower	1.17	0.32
Sediment Retention & Stabilisation (SR)	2.02	Lower	1.59	Moderate	3.78	0.78
Phosphorus Retention (PR)	0.75	Lower	1.29	Moderate	4.22	1.00
Nitrate Removal & Retention (NR)	2.82	Moderate	3.33	Lower	4.81	3.33
Carbon Sequestration (CS)	3.93	Moderate			7.05	
Organic Nutrient Export (OE)	8.50	Higher			5.56	
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)	2.27	Lower	4.15	Moderate	4.42	3.48
Amphibian & Turtle Habitat (AM)	4.63	Moderate	4.90	Moderate	5.55	5.80
Waterbird Feeding Habitat (WBF)	6.37	Moderate	5.00	Moderate	4.85	5.00
Waterbird Nesting Habitat (WBN)	4.05	Moderate	5.00	Higher	2.93	5.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.67	Higher	5.00	Moderate	7.55	5.00
Pollinator Habitat (POL)	9.53	Higher	0.00	Lower	7.90	0.00
Native Plant Habitat (PH)	4.28	Moderate	5.15	Lower	5.61	5.15
Public Use & Recognition (PU)			1.85	Moderate		1.57
Wetland Sensitivity (Sens)			8.69	Higher		4.65
Wetland Ecological Condition (EC)			7.10	Higher		8.61
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	3.57	Lower	5.92	Moderate	4.61	2.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.15	Moderate	2.70	Lower	6.01	2.52
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.02	Higher	4.28	Moderate	4.33	2.96
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.69	Moderate	3.99	Moderate	4.11	4.48
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.51	Higher	4.27	Lower	7.46	4.27
WETLAND CONDITION (EC)			7.10	Higher		8.61
WETLAND RISK (average of Sensitivity & Stressors)			6.52	Moderate		3.46

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	21.12412311	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	8.520045265	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	25.77320711	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	18.72558415	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	36.30272131	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: WL49

Date: 08/02/2024

Observer: Brayden Thomas

Latitude & Longitude (decimal degrees): 44.79657288, -63.89930203

*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)	1.41	Lower	5.64	Moderate	3.00	2.50
Stream Flow Support (SFS)	5.24	Higher	5.00	Moderate	4.22	3.33
Water Cooling (WC)	2.38	Moderate	3.96	Moderate	1.58	2.15
Sediment Retention & Stabilisation (SR)	1.79	Lower	1.59	Moderate	3.59	0.78
Phosphorus Retention (PR)	0.90	Lower	1.29	Moderate	4.31	1.00
Nitrate Removal & Retention (NR)	3.33	Moderate	7.50	Higher	5.18	7.50
Carbon Sequestration (CS)	3.29	Moderate			6.75	
Organic Nutrient Export (OE)	9.80	Higher			6.40	
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)	3.58	Moderate	4.67	Moderate	4.95	3.76
Amphibian & Turtle Habitat (AM)	6.79	Higher	3.68	Moderate	6.68	4.79
Waterbird Feeding Habitat (WBF)	5.62	Moderate	3.33	Moderate	4.28	3.33
Waterbird Nesting Habitat (WBN)	5.54	Moderate	2.50	Moderate	4.01	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	8.72	Higher	2.50	Lower	7.59	2.50
Pollinator Habitat (POL)	9.37	Higher	0.00	Lower	7.77	0.00
Native Plant Habitat (PH)	3.89	Moderate	5.12	Lower	5.45	5.12
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			4.62	Lower		3.49
Wetland Ecological Condition (EC)			7.10	Higher		8.61
Wetland Stressors (STR) (higher score means more stress)			5.33	Moderate		2.75
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.41	Lower	5.64	Moderate	3.00	2.50
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.83	Moderate	5.48	Moderate	5.86	5.30
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.52	Higher	4.77	Moderate	5.35	3.42
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.19	Moderate	2.79	Moderate	4.84	3.46
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.35	Higher	3.83	Lower	7.35	3.83
WETLAND CONDITION (EC)			7.10	Higher		8.61
WETLAND RISK (average of Sensitivity & Stressors)			4.98	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	7.96064119	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	15.51688307	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	35.88464199	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	14.48300463	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	31.97747182	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: WL50

Date: 08/01/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.795231, -63.907314

*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)	1.77	Lower	5.24	Moderate	3.26	2.33
Stream Flow Support (SFS)	2.14	Moderate	6.06	Moderate	1.72	4.03
Water Cooling (WC)	5.55	Higher	3.04	Moderate	3.70	1.65
Sediment Retention & Stabilisation (SR)	3.62	Moderate	7.76	Higher	5.02	3.80
Phosphorus Retention (PR)	3.14	Moderate	7.05	Higher	5.71	5.49
Nitrate Removal & Retention (NR)	3.43	Moderate	10.00	Higher	5.25	10.00
Carbon Sequestration (CS)	3.68	Moderate			6.94	
Organic Nutrient Export (OE)	9.71	Higher			6.35	
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident Fish Habitat (FR)	8.88	Higher	1.63	Moderate	4.82	1.02
Aquatic Invertebrate Habitat (INV)	7.30	Higher	7.51	Higher	6.47	5.29
Amphibian & Turtle Habitat (AM)	7.19	Higher	4.13	Moderate	6.89	5.17
Waterbird Feeding Habitat (WBF)	6.67	Higher	2.50	Lower	5.08	2.50
Waterbird Nesting Habitat (WBN)	9.70	Higher	2.50	Moderate	7.03	2.50
Songbird, Raptor, & Mammal Habitat (SBM)	9.10	Higher	2.50	Lower	7.93	2.50
Pollinator Habitat (POL)	8.37	Higher	0.00	Lower	6.94	0.00
Native Plant Habitat (PH)	6.94	Higher	4.95	Lower	6.67	4.95
Public Use & Recognition (PU)			2.20	Moderate		1.81
Wetland Sensitivity (Sens)			3.74	Lower		3.24
Wetland Ecological Condition (EC)			3.91	Moderate		7.08
Wetland Stressors (STR) (higher score means more stress)			7.93	Higher		3.99
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.77	Lower	5.24	Moderate	3.26	2.33
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.57	Moderate	9.14	Higher	6.33	8.21
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.94	Higher	6.53	Moderate	5.52	4.47
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	8.09	Higher	3.14	Moderate	5.90	3.70
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.62	Higher	3.72	Lower	7.55	3.72
WETLAND CONDITION (EC)			3.91	Moderate		7.08
WETLAND RISK (average of Sensitivity & Stressors)			5.83	Moderate		3.61

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	9.261317972	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	32.65877168	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	51.84281985	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	25.43495518	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	32.06312758	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: WL51

Date: 08/06/2024

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.79208959, -63.89426993

*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)	0.56	Lower	0.92	Lower	2.36	0.41
Stream Flow Support (SFS)	5.86	Higher	2.90	Moderate	4.72	1.93
Water Cooling (WC)	7.40	Higher	2.56	Moderate	4.93	1.39
Sediment Retention & Stabilisation (SR)	3.05	Lower	7.56	Higher	4.57	3.70
Phosphorus Retention (PR)	2.94	Lower	7.29	Higher	5.58	5.67
Nitrate Removal & Retention (NR)	2.59	Lower	10.00	Higher	4.64	10.00
Carbon Sequestration (CS)	5.33	Moderate			7.72	
Organic Nutrient Export (OE)	10.00	Higher			7.12	
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)	7.74	Higher	4.75	Moderate	6.65	3.80
Amphibian & Turtle Habitat (AM)	5.27	Moderate	7.01	Higher	5.88	7.53
Waterbird Feeding Habitat (WBF)	5.95	Moderate	10.00	Higher	4.53	10.00
Waterbird Nesting Habitat (WBN)	5.98	Moderate	10.00	Higher	4.34	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.27	Higher	10.00	Higher	8.07	10.00
Pollinator Habitat (POL)	8.29	Higher	10.00	Higher	6.87	10.00
Native Plant Habitat (PH)	6.56	Higher	8.31	Higher	6.52	8.31
Public Use & Recognition (PU)			0.26	Lower		0.48
Wetland Sensitivity (Sens)			6.08	Moderate		3.90
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			4.34	Moderate		2.27
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	0.56	Lower	0.92	Lower	2.36	0.41
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.40	Moderate	9.14	Higher	6.67	8.23
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.88	Higher	4.08	Moderate	6.49	3.09
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.71	Moderate	7.70	Higher	4.42	7.75
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.66	Higher	9.72	Higher	7.61	9.72
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			5.21	Moderate		3.09

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	0.51805294	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	40.21811402	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	36.19558757	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	36.2812649	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	84.12546435	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: WL52

Date: 08/08/2024

Observer: Connor Nishikawa

Latitude & Longitude (decimal degrees): 44.78994254, -63.88304161

*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)	9.35	Higher	1.41	Lower	8.92	0.63
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	2.51	Lower	0.86	Lower	5.32	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.26	Higher			8.63	
Organic Nutrient Export (OE)	7.71	Higher			5.04	
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)	6.34	Higher	0.76	Lower	6.08	1.65
Amphibian & Turtle Habitat (AM)	2.56	Lower	4.11	Moderate	4.47	5.15
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)	6.25	Moderate	10.00	Higher	5.44	10.00
Pollinator Habitat (POL)	6.74	Moderate	10.00	Higher	5.59	10.00
Native Plant Habitat (PH)	2.45	Lower	7.01	Moderate	4.88	7.01
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			10.00	Higher		5.47
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.35	Higher	1.41	Lower	8.92	0.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.28	Higher	1.78	Lower	8.90	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.61	Higher	0.50	Lower	4.43	1.10
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.54	Lower	2.47	Moderate	2.68	3.09
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.95	Moderate	9.50	Higher	5.45	9.50
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.21	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	13.18708028	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.69507047	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.830145659	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	3.791540861	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	56.48757646	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: 10-09-2024

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.78955622, -63.88548792

*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)	1.50	Lower	1.41	Lower	3.06	0.63
Stream Flow Support (SFS)	1.72	Moderate	3.00	Moderate	1.39	1.99
Water Cooling (WC)	1.50	Lower	1.36	Lower	1.00	0.74
Sediment Retention & Stabilisation (SR)	0.22	Lower	0.76	Lower	2.37	0.37
Phosphorus Retention (PR)	0.76	Lower	0.86	Lower	4.22	0.67
Nitrate Removal & Retention (NR)	2.63	Lower	2.22	Lower	4.67	2.22
Carbon Sequestration (CS)	0.00	Lower			5.13	
Organic Nutrient Export (OE)	7.22	Moderate			4.72	
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)	2.38	Lower	1.16	Moderate	4.46	1.87
Amphibian & Turtle Habitat (AM)	1.72	Lower	3.97	Moderate	4.03	5.03
Waterbird Feeding Habitat (WBF)	3.27	Moderate	10.00	Higher	2.49	10.00
Waterbird Nesting Habitat (WBN)	2.88	Moderate	10.00	Higher	2.09	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	3.00	Moderate	10.00	Higher	2.61	10.00
Pollinator Habitat (POL)	7.01	Moderate	10.00	Higher	5.81	10.00
Native Plant Habitat (PH)	2.56	Lower	6.14	Moderate	4.92	6.14
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			8.22	Higher		4.51
Wetland Ecological Condition (EC)			7.39	Higher		8.75
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.50	Lower	1.41	Lower	3.06	0.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	1.77	Lower	1.75	Lower	4.62	1.65
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.21	Moderate	2.42	Lower	3.80	1.76
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.42	Lower	7.40	Higher	2.87	7.50
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.60	Moderate	9.36	Higher	5.13	9.36
WETLAND CONDITION (EC)			7.39	Higher		8.75
WETLAND RISK (average of Sensitivity & Stressors)			6.32	Moderate		3.41

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	2.108059921	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	3.093226256	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.59878686	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	17.91737544	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.36247913	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: 2024-10-06

Observer: Connor Nishikawa

Latitude & Longitude (decimal degrees): 44.78779248, -63.892809

*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)	8.38	Higher	0.96	Lower	8.20	0.43
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	1.36	Moderate	5.56	0.67
Phosphorus Retention (PR)	2.02	Lower	1.29	Moderate	5.01	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	7.39	Higher			8.70	
Organic Nutrient Export (OE)	8.14	Higher			5.32	
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)	5.98	Higher	0.78	Lower	5.93	1.67
Amphibian & Turtle Habitat (AM)	2.91	Lower	4.07	Moderate	4.65	5.11
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)	6.14	Moderate	10.00	Higher	5.34	10.00
Pollinator Habitat (POL)	6.49	Moderate	10.00	Higher	5.38	10.00
Native Plant Habitat (PH)	3.56	Lower	6.91	Moderate	5.32	6.91
Public Use & Recognition (PU)			1.79	Moderate		1.53
Wetland Sensitivity (Sens)			7.10	Moderate		4.19
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.35	Moderate		2.28
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.38	Higher	0.96	Lower	8.20	0.43
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.96	Higher	3.77	Moderate	8.66	3.61
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.83	Higher	0.52	Lower	4.37	1.11
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.75	Lower	2.44	Moderate	2.79	3.07
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.94	Moderate	9.48	Higher	5.36	9.48
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			5.72	Moderate		3.24

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	8.030199703	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.06001651	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.042111313	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.261667437	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	56.38256171	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: WL55

Date: 08/07/2024

Observer: Connor Nishikawa

Latitude & Longitude (decimal degrees): 44.78748043, -63.88679854

*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)	2.76	Lower	4.20	Moderate	4.01	1.86
Stream Flow Support (SFS)	6.21	Higher	7.18	Moderate	5.00	4.78
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	7.71	Higher	5.56	3.78
Phosphorus Retention (PR)	2.07	Lower	7.29	Higher	5.04	5.67
Nitrate Removal & Retention (NR)	3.67	Moderate	10.00	Higher	5.42	10.00
Carbon Sequestration (CS)	5.16	Moderate			7.64	
Organic Nutrient Export (OE)	10.00	Higher			7.54	
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)	6.97	Higher	1.01	Lower	6.34	1.79
Amphibian & Turtle Habitat (AM)	3.18	Lower	4.31	Moderate	4.79	5.31
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)	6.82	Moderate	10.00	Higher	5.94	10.00
Pollinator Habitat (POL)	6.89	Moderate	10.00	Higher	5.71	10.00
Native Plant Habitat (PH)	4.75	Moderate	7.22	Moderate	5.80	7.22
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			9.44	Higher		4.86
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.76	Lower	4.20	Moderate	4.01	1.86
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.48	Moderate	9.17	Higher	6.78	8.24
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.90	Higher	4.95	Moderate	6.13	3.48
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.91	Lower	2.59	Moderate	2.87	3.19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.52	Moderate	9.54	Higher	5.88	9.54
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			6.93	Higher		3.59

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	11.59352035	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	41.04659439	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	39.11329892	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.936208253	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	62.21979099	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: 08/09/2024

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.78669899, -63.89629555

*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)	9.49	Higher	3.33	Lower	9.03	1.48
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)	7.15	Higher	0.91	Lower	7.78	0.44
Phosphorus Retention (PR)	2.81	Lower	0.86	Lower	5.50	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	6.82	Higher			8.42	
Organic Nutrient Export (OE)	7.50	Higher			4.90	
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)	6.98	Higher	0.88	Lower	6.34	1.72
Amphibian & Turtle Habitat (AM)	2.82	Lower	4.22	Moderate	4.60	5.24
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)	6.56	Moderate	10.00	Higher	5.71	10.00
Pollinator Habitat (POL)	8.68	Higher	10.00	Higher	7.19	10.00
Native Plant Habitat (PH)	4.33	Moderate	7.63	Moderate	5.63	7.63
Public Use & Recognition (PU)			0.26	Lower		0.48
Wetland Sensitivity (Sens)			10.00	Higher		5.84
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.34	Moderate		2.27
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.49	Higher	3.33	Lower	9.03	1.48
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.35	Higher	1.96	Lower	8.96	1.85
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.56	Higher	0.59	Lower	4.58	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.69	Lower	2.53	Moderate	2.76	3.14
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.60	Higher	9.61	Higher	6.69	9.61
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			7.17	Higher		4.06

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	31.58607986	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.36633922	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.26436549	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.286073636	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	73.02850188	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: 08/08/2024

Observer: Connor Nishikawa

Latitude & Longitude (decimal degrees): 44.78635293, -63.88109795

*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)	6.59	Moderate	4.34	Moderate	6.87	1.93
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.92	Moderate	0.00	Lower	3.28	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.32	Moderate	10.00	0.65
Phosphorus Retention (PR)	10.00	Higher	0.86	Lower	10.00	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	3.36	Moderate			6.79	
Organic Nutrient Export (OE)	6.18	Moderate			4.04	
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)	2.25	Lower	3.83	Moderate	4.41	3.31
Amphibian & Turtle Habitat (AM)	6.06	Moderate	6.05	Higher	6.30	6.74
Waterbird Feeding Habitat (WBF)	5.25	Moderate	10.00	Higher	3.99	10.00
Waterbird Nesting Habitat (WBN)	4.58	Moderate	10.00	Higher	3.32	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.17	Moderate	10.00	Higher	6.24	10.00
Pollinator Habitat (POL)	7.49	Moderate	10.00	Higher	6.21	10.00
Native Plant Habitat (PH)	2.15	Lower	7.48	Moderate	4.76	7.48
Public Use & Recognition (PU)			2.40	Moderate		1.94
Wetland Sensitivity (Sens)			10.00	Higher		5.09
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			5.90	Moderate		3.02
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.59	Moderate	4.34	Moderate	6.87	1.93
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.17	Higher	2.59	Lower	9.60	2.44
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.76	Moderate	2.56	Lower	3.67	2.21
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.62	Moderate	7.60	Higher	4.51	7.67
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.55	Moderate	9.58	Higher	5.99	9.58
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.95	Higher		4.05

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	28.63157292	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.71108814	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.16600147	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	35.11267232	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	62.71321104	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: WL58

Date: 08/08/2024

Observer: Connor Nishikawa

Latitude & Longitude (decimal degrees): 44.78489173, -63.88353452

*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)	8.79	Higher	4.74	Moderate	8.51	2.10
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	0.91	Lower	6.67	0.44
Phosphorus Retention (PR)	2.21	Lower	0.86	Lower	5.13	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.17	Higher			8.59	
Organic Nutrient Export (OE)	7.71	Higher			5.04	
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)	5.64	Higher	0.88	Lower	5.79	1.72
Amphibian & Turtle Habitat (AM)	3.17	Lower	4.14	Moderate	4.78	5.18
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)	6.35	Moderate	10.00	Higher	5.53	10.00
Pollinator Habitat (POL)	6.29	Moderate	10.00	Higher	5.21	10.00
Native Plant Habitat (PH)	2.48	Lower	6.91	Moderate	4.89	6.91
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			7.27	Higher		4.24
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.79	Higher	4.74	Moderate	8.51	2.10
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.14	Higher	1.78	Lower	8.80	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.53	Moderate	0.59	Lower	4.25	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.90	Lower	2.49	Moderate	2.87	3.11
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.70	Moderate	9.49	Higher	5.37	9.49
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			5.85	Moderate		3.28

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	41.66290064	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.45180692	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.24749146	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.726133911	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	54.0361405	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: WL59

Date: 07/31/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.782212°, -63.891460°

*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)	2.37	Lower	3.61	Lower	3.72	1.60
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	2.08	Moderate	6.67	1.02
Phosphorus Retention (PR)	2.21	Lower	2.14	Moderate	5.13	1.67
Nitrate Removal & Retention (NR)	1.96	Lower	6.00	Moderate	4.19	6.00
Carbon Sequestration (CS)	6.58	Higher			8.31	
Organic Nutrient Export (OE)	6.69	Moderate			4.37	
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)	0.20	Lower	0.31	Lower	3.57	1.41
Amphibian & Turtle Habitat (AM)	0.66	Lower	3.92	Moderate	3.47	4.99
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)	5.72	Moderate	10.00	Higher	4.98	10.00
Pollinator Habitat (POL)	8.65	Higher	10.00	Higher	7.17	10.00
Native Plant Habitat (PH)	0.34	Lower	7.38	Moderate	4.04	7.38
Public Use & Recognition (PU)			2.66	Moderate		2.12
Wetland Sensitivity (Sens)			4.16	Lower		3.35
Wetland Ecological Condition (EC)			0.43	Lower		5.42
Wetland Stressors (STR) (higher score means more stress)			9.54	Higher		4.76
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	2.37	Lower	3.61	Lower	3.72	1.60
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	5.35	Higher	4.70	Moderate	7.19	4.45
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.21	Moderate	0.20	Lower	3.18	0.94
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.39	Lower	2.35	Moderate	2.08	3.00
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.78	Higher	9.56	Higher	6.28	9.56
WETLAND CONDITION (EC)			0.43	Lower		5.42
WETLAND RISK (average of Sensitivity & Stressors)			6.85	Higher		4.06

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	8.56188655	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.17654779	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.856276616	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.927626028	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	64.8437385	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: 07/30/2024

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.78120773, -63.88977682

*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)	0.28	Lower	3.50	Lower	2.16	1.55
Stream Flow Support (SFS)	6.90	Higher	6.23	Moderate	5.56	4.14
Water Cooling (WC)	3.33	Moderate	2.48	Moderate	2.22	1.34
Sediment Retention & Stabilisation (SR)	2.23	Lower	7.71	Higher	3.94	3.78
Phosphorus Retention (PR)	2.96	Lower	7.29	Higher	5.60	5.67
Nitrate Removal & Retention (NR)	3.02	Moderate	10.00	Higher	4.95	10.00
Carbon Sequestration (CS)	5.87	Moderate			7.98	
Organic Nutrient Export (OE)	9.91	Higher			6.48	
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)	6.80	Higher	6.19	Higher	6.27	4.58
Amphibian & Turtle Habitat (AM)	6.60	Moderate	7.86	Higher	6.58	8.24
Waterbird Feeding Habitat (WBF)	8.57	Higher	10.00	Higher	6.52	10.00
Waterbird Nesting Habitat (WBN)	8.54	Higher	10.00	Higher	6.19	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.41	Higher	10.00	Higher	8.19	10.00
Pollinator Habitat (POL)	8.35	Higher	10.00	Higher	6.92	10.00
Native Plant Habitat (PH)	7.03	Higher	8.37	Higher	6.70	8.37
Public Use & Recognition (PU)			0.43	Lower		0.60
Wetland Sensitivity (Sens)			6.87	Moderate		4.13
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.40	Moderate		2.30
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	0.28	Lower	3.50	Lower	2.16	1.55
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	4.70	Moderate	9.17	Higher	6.80	8.24
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.33	Higher	5.60	Moderate	5.81	3.97
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.65	Higher	7.79	Higher	5.22	7.82
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.83	Higher	9.73	Higher	7.73	9.73
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			5.63	Moderate		3.21

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	0.982107561	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	43.04716037	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	46.60166878	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	51.80246069	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	85.92085013	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: WL61

Date: 10/09/2024

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.77771874, -63.8854649

*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)	9.35	Higher	3.50	Lower	8.92	1.55
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)	6.44	Moderate	1.59	Moderate	7.22	0.78
Phosphorus Retention (PR)	2.51	Lower	0.86	Lower	5.32	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.67	Lower	10.00	2.67
Carbon Sequestration (CS)	7.52	Higher			8.76	
Organic Nutrient Export (OE)	9.84	Higher			6.43	
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)	4.66	Moderate	1.02	Lower	5.40	1.79
Amphibian & Turtle Habitat (AM)	3.32	Lower	4.29	Moderate	4.86	5.30
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)	6.78	Moderate	10.00	Higher	5.90	10.00
Pollinator Habitat (POL)	8.15	Higher	10.00	Higher	6.75	10.00
Native Plant Habitat (PH)	2.20	Lower	7.55	Moderate	4.78	7.55
Public Use & Recognition (PU)			2.14	Moderate		1.77
Wetland Sensitivity (Sens)			10.00	Higher		5.61
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.88	Moderate		2.53
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.35	Higher	3.50	Lower	8.92	1.55
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.31	Higher	2.19	Lower	8.91	2.02
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.73	Higher	0.68	Lower	4.69	1.20
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.99	Lower	2.58	Moderate	2.92	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.93	Higher	9.59	Higher	6.28	9.59
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.44	Higher		4.07

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	32.70395909	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.15805279	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.581495814	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	5.13314153	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	66.47515725	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: WL62

Date: 10/09/2024

Observer: Rohan Kariyawansa

Latitude & Longitude (decimal degrees): 44.77771874, -63.8854649

*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	1.02	Lower	8.61	0.45
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)	5.02	Moderate	2.04	Moderate	6.11	1.00
Phosphorus Retention (PR)	0.80	Lower	1.29	Moderate	4.25	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	7.53	Higher			8.76	
Organic Nutrient Export (OE)	8.01	Higher			5.23	
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)	4.50	Moderate	0.85	Lower	5.33	1.70
Amphibian & Turtle Habitat (AM)	2.89	Lower	4.16	Moderate	4.64	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)	6.39	Moderate	10.00	Higher	5.56	10.00
Pollinator Habitat (POL)	7.15	Moderate	10.00	Higher	5.92	10.00
Native Plant Habitat (PH)	2.51	Lower	7.16	Moderate	4.90	7.16
Public Use & Recognition (PU)			2.28	Moderate		1.87
Wetland Sensitivity (Sens)			9.28	Higher		4.82
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.94	Moderate		2.56
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.93	Higher	1.02	Lower	8.61	0.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.92	Higher	2.78	Lower	8.64	2.56
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.57	Higher	0.56	Lower	3.98	1.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.73	Lower	2.49	Moderate	2.78	3.11
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.25	Moderate	9.53	Higher	5.69	9.53
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.11	Higher		3.69

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	9.067196072	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.98837466	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.141105234	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.327052358	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.50591659	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: WL63

Date: 07/30/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.77578111, -63.89392722

*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)	8.21	Higher	3.50	Lower	8.07	1.55
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	4.30	Moderate	0.91	Lower	5.56	0.44
Phosphorus Retention (PR)	0.88	Lower	0.86	Lower	4.30	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	8.22	Higher			9.09	
Organic Nutrient Export (OE)	7.32	Moderate			4.78	
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)	5.96	Higher	0.77	Lower	5.92	1.66
Amphibian & Turtle Habitat (AM)	0.87	Lower	4.49	Moderate	3.58	5.46
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)	7.34	Moderate	10.00	Higher	6.39	10.00
Pollinator Habitat (POL)	7.61	Moderate	10.00	Higher	6.31	10.00
Native Plant Habitat (PH)	5.25	Moderate	7.57	Moderate	6.00	7.57
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			8.26	Higher		4.53
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.21	Higher	3.50	Lower	8.07	1.55
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.93	Higher	3.63	Moderate	8.62	3.52
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.45	Moderate	0.52	Lower	4.40	1.11
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.52	Lower	2.69	Moderate	2.15	3.28
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.17	Higher	9.59	Higher	6.31	9.59
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			6.34	Moderate		3.42

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	28.70077953	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.75104425	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.809863873	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.398785013	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	68.83785089	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: WL64

Date: 07/31/2024

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.77552174, -63.89272829

*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)	9.10	Higher	3.83	Moderate	8.74	1.70
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	1.98	Lower	0.86	Lower	4.98	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	6.29	Moderate			8.18	
Organic Nutrient Export (OE)	7.61	Higher			4.97	
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)	5.21	Moderate	1.04	Lower	5.62	1.81
Amphibian & Turtle Habitat (AM)	3.45	Lower	4.30	Moderate	4.93	5.30
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)	6.78	Moderate	10.00	Higher	5.90	10.00
Pollinator Habitat (POL)	8.45	Higher	10.00	Higher	7.00	10.00
Native Plant Habitat (PH)	2.75	Lower	7.64	Moderate	5.00	7.64
Public Use & Recognition (PU)			0.26	Lower		0.48
Wetland Sensitivity (Sens)			10.00	Higher		5.85
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.34	Moderate		2.27
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.10	Higher	3.83	Moderate	8.74	1.70
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.09	Higher	1.78	Lower	8.80	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.41	Moderate	0.70	Lower	4.13	1.20
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	2.07	Lower	2.58	Moderate	2.96	3.18
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.22	Higher	9.61	Higher	6.49	9.61
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.17	Higher		4.06

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	34.90507162	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.36213383	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.762412909	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	5.343379488	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	69.38449034	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: WL65

Date: 2024-011-05

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.77375933, -63.89259707

*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)	7.57	Moderate	3.67	Lower	7.59	1.63
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)	3.24	Lower	1.59	Moderate	4.72	0.78
Phosphorus Retention (PR)	1.62	Lower	0.86	Lower	4.76	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.50	Lower	10.00	2.50
Carbon Sequestration (CS)	7.21	Higher			8.61	
Organic Nutrient Export (OE)	9.20	Higher			6.01	
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)	4.19	Moderate	0.60	Lower	5.20	1.57
Amphibian & Turtle Habitat (AM)	0.84	Lower	4.27	Moderate	3.57	5.28
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)	6.70	Moderate	10.00	Higher	5.83	10.00
Pollinator Habitat (POL)	8.57	Higher	10.00	Higher	7.10	10.00
Native Plant Habitat (PH)	3.59	Moderate	7.65	Moderate	5.34	7.65
Public Use & Recognition (PU)			0.26	Lower		0.48
Wetland Sensitivity (Sens)			10.00	Higher		5.45
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			4.60	Moderate		2.40
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.57	Moderate	3.67	Lower	7.59	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.76	Higher	2.07	Lower	8.51	1.91
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.27	Higher	0.40	Lower	4.41	1.04
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.50	Lower	2.56	Moderate	2.14	3.17
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.43	Higher	9.61	Higher	6.60	9.61
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.30	Higher		3.92

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	27.73517859	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.09326223	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.505249469	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.292274663	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	71.37941596	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: 07/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.77030482, -63.89901154

*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)	1.05	Lower	3.67	Lower	2.73	1.63
Stream Flow Support (SFS)	7.24	Higher	6.32	Moderate	5.83	4.21
Water Cooling (WC)	6.80	Higher	1.61	Lower	4.53	0.87
Sediment Retention & Stabilisation (SR)	2.16	Lower	8.58	Higher	3.88	4.20
Phosphorus Retention (PR)	1.38	Lower	7.29	Higher	4.61	5.67
Nitrate Removal & Retention (NR)	2.54	Lower	10.00	Higher	4.61	10.00
Carbon Sequestration (CS)	3.65	Moderate			6.92	
Organic Nutrient Export (OE)	9.89	Higher			6.47	
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	5.72	Moderate	5.75	4.33
Amphibian & Turtle Habitat (AM)	5.73	Moderate	7.60	Higher	6.13	8.03
Waterbird Feeding Habitat (WBF)	7.54	Higher	10.00	Higher	5.74	10.00
Waterbird Nesting Habitat (WBN)	7.94	Higher	10.00	Higher	5.76	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	9.57	Higher	10.00	Higher	8.33	10.00
Pollinator Habitat (POL)	8.93	Higher	10.00	Higher	7.40	10.00
Native Plant Habitat (PH)	5.81	Moderate	8.58	Higher	6.22	8.58
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			8.40	Higher		4.57
Wetland Ecological Condition (EC)			3.62	Lower		6.94
Wetland Stressors (STR) (higher score means more stress)			5.12	Moderate		2.64
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.05	Lower	3.67	Lower	2.73	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.04	Moderate	9.31	Higher	5.97	8.31
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.63	Higher	5.44	Moderate	6.06	3.73
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.09	Moderate	7.76	Higher	4.82	7.80
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.84	Higher	9.76	Higher	7.83	9.76
WETLAND CONDITION (EC)			3.62	Lower		6.94
WETLAND RISK (average of Sensitivity & Stressors)			6.76	Higher		3.60

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	3.866545513	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.33215668	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	46.93273031	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	47.25987144	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	86.29834568	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:WL67

Date: 07/29/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.77123071, -63.90235539

*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)	9.07	Higher	4.06	Moderate	8.72	1.80
Stream Flow Support (SFS)	1.03	Lower	0.00	Lower	0.83	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	2.51	Lower	0.86	Lower	5.32	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.52	Higher			8.76	
Organic Nutrient Export (OE)	7.29	Moderate			4.76	
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)	6.12	Higher	0.95	Lower	5.99	1.75
Amphibian & Turtle Habitat (AM)	3.19	Lower	4.23	Moderate	4.79	5.24
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	10.00	Higher	5.73	10.00
Pollinator Habitat (POL)	6.69	Moderate	10.00	Higher	5.55	10.00
Native Plant Habitat (PH)	2.58	Lower	7.09	Moderate	4.93	7.09
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			6.99	Moderate		4.16
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.07	Higher	4.06	Moderate	8.72	1.80
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.31	Higher	1.78	Lower	8.91	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.45	Moderate	0.63	Lower	4.44	1.17
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.91	Lower	2.54	Moderate	2.88	3.15
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.99	Moderate	9.52	Higher	5.57	9.52
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			5.71	Moderate		3.24

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	36.84492445	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.75295964	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.438898855	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.848670997	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	56.97979885	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: WL68

Date: 07/29/2024

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.77095965, -63.90319979

*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)	9.07	Higher	4.06	Moderate	8.72	1.80
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	2.51	Lower	0.86	Lower	5.32	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	5.68	Moderate			7.88	
Organic Nutrient Export (OE)	7.29	Moderate			4.76	
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)	3.85	Moderate	0.84	Lower	5.06	1.70
Amphibian & Turtle Habitat (AM)	3.10	Lower	4.10	Moderate	4.75	5.14
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)	6.24	Moderate	10.00	Higher	5.43	10.00
Pollinator Habitat (POL)	7.95	Moderate	10.00	Higher	6.59	10.00
Native Plant Habitat (PH)	2.09	Lower	7.34	Moderate	4.74	7.34
Public Use & Recognition (PU)			0.26	Lower		0.48
Wetland Sensitivity (Sens)			10.00	Higher		5.66
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.34	Moderate		2.27
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.07	Higher	4.06	Moderate	8.72	1.80
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.08	Higher	1.78	Lower	8.80	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.04	Moderate	0.56	Lower	3.76	1.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.86	Lower	2.46	Moderate	2.85	3.09
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.69	Moderate	9.56	Higher	6.09	9.56
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.17	Higher		3.97

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	36.84492445	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.34383282	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.819950277	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.582152364	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.91815185	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: WL69

Date: 07/24/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.77101948, -63.88069743

*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)	9.35	Higher	3.67	Lower	8.92	1.63
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	2.51	Lower	0.86	Lower	5.32	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	8.21	Higher			9.08	
Organic Nutrient Export (OE)	7.08	Moderate			4.62	
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)	3.98	Moderate	0.71	Lower	5.12	1.62
Amphibian & Turtle Habitat (AM)	1.26	Lower	4.32	Moderate	3.79	5.32
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)	6.85	Moderate	10.00	Higher	5.96	10.00
Pollinator Habitat (POL)	7.15	Moderate	10.00	Higher	5.92	10.00
Native Plant Habitat (PH)	2.87	Lower	7.29	Moderate	5.05	7.29
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			10.00	Higher		5.53
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.35	Higher	3.67	Lower	8.92	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.39	Higher	1.78	Lower	8.95	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	4.92	Moderate	0.47	Lower	3.78	1.08
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.76	Lower	2.59	Moderate	2.27	3.19
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.38	Moderate	9.55	Higher	5.80	9.55
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			7.21	Higher		3.92

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	34.28640872	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.90581306	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.318084301	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.963546777	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	60.94862258	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:WL70

Date: 2024-11-04

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.77033663, -63.88228586

*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)	9.07	Higher	3.67	Lower	8.72	1.63
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	0.91	Lower	6.67	0.44
Phosphorus Retention (PR)	2.21	Lower	0.86	Lower	5.13	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.92	Higher			8.94	
Organic Nutrient Export (OE)	7.71	Higher			5.04	
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)	2.83	Lower	0.85	Lower	4.65	1.70
Amphibian & Turtle Habitat (AM)	3.02	Lower	4.13	Moderate	4.71	5.17
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)	6.32	Moderate	10.00	Higher	5.50	10.00
Pollinator Habitat (POL)	7.57	Moderate	10.00	Higher	6.27	10.00
Native Plant Habitat (PH)	2.09	Lower	7.26	Moderate	4.74	7.26
Public Use & Recognition (PU)			1.88	Moderate		1.59
Wetland Sensitivity (Sens)			10.00	Higher		5.40
Wetland Ecological Condition (EC)			3.04	Lower		6.67
Wetland Stressors (STR) (higher score means more stress)			4.42	Moderate		2.31
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.07	Higher	3.67	Lower	8.72	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.23	Higher	1.78	Lower	8.84	1.67
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.17	Moderate	0.57	Lower	3.73	1.13
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.81	Lower	2.48	Moderate	2.83	3.10
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.45	Moderate	9.54	Higher	5.89	9.54
WETLAND CONDITION (EC)			3.04	Lower		6.67
WETLAND RISK (average of Sensitivity & Stressors)			7.21	Higher		3.85

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	33.26277902	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.61701871	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.927890745	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.497807345	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.53705184	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: WL71

Date: 2024-07/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.76971046, -63.89578859

*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)	8.07	Higher	4.57	Moderate	7.97	2.03
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)	3.31	Lower	1.59	Moderate	4.78	0.78
Phosphorus Retention (PR)	1.57	Lower	0.86	Lower	4.73	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	2.22	Lower	10.00	2.22
Carbon Sequestration (CS)	7.40	Higher			8.70	
Organic Nutrient Export (OE)	7.78	Higher			5.09	
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)	1.47	Lower	0.72	Lower	4.09	1.63
Amphibian & Turtle Habitat (AM)	1.54	Lower	4.28	Moderate	3.93	5.28
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)	6.72	Moderate	10.00	Higher	5.85	10.00
Pollinator Habitat (POL)	7.69	Moderate	10.00	Higher	6.37	10.00
Native Plant Habitat (PH)	2.31	Lower	7.41	Moderate	4.82	7.41
Public Use & Recognition (PU)			2.02	Moderate		1.68
Wetland Sensitivity (Sens)			10.00	Higher		5.55
Wetland Ecological Condition (EC)			1.88	Lower		6.11
Wetland Stressors (STR) (higher score means more stress)			5.40	Moderate		2.78
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.07	Higher	4.57	Moderate	7.97	2.03
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.78	Higher	1.89	Lower	8.53	1.72
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.05	Moderate	0.48	Lower	3.69	1.09
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.92	Lower	2.57	Moderate	2.36	3.17
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.63	Moderate	9.57	Higher	6.03	9.57
WETLAND CONDITION (EC)			1.88	Lower		6.11
WETLAND RISK (average of Sensitivity & Stressors)			7.70	Higher		4.17

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	36.85837965	Moderate
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.70534244	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.416109707	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	2.370583308	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	63.43705858	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: WL72

Date: 07/25/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.76928356, -63.90104953

*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)	8.35	Higher	3.67	Lower	8.17	1.63
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	8.60	Higher	5.56	4.21
Phosphorus Retention (PR)	2.07	Lower	7.77	Higher	5.04	6.04
Nitrate Removal & Retention (NR)	10.00	Higher	10.00	Higher	10.00	10.00
Carbon Sequestration (CS)	6.04	Moderate			8.06	
Organic Nutrient Export (OE)	10.00	Higher			6.71	
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)	3.30	Lower	0.80	Lower	4.84	1.67
Amphibian & Turtle Habitat (AM)	2.92	Lower	4.09	Moderate	4.65	5.13
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)	6.19	Moderate	10.00	Higher	5.39	10.00
Pollinator Habitat (POL)	8.40	Higher	10.00	Higher	6.96	10.00
Native Plant Habitat (PH)	2.93	Lower	7.45	Moderate	5.07	7.45
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			10.00	Higher		5.13
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.71	Higher		3.40
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.35	Higher	3.67	Lower	8.17	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.80	Higher	9.39	Higher	8.58	8.38
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	6.66	Higher	0.53	Lower	4.80	1.12
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	1.75	Lower	2.45	Moderate	2.79	3.08
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.12	Higher	9.58	Higher	6.39	9.58
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			8.35	Higher		4.27

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	30.60134178	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	73.29600538	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.545530925	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	4.297368745	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	68.1960103	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: WL73

Date: 2024-11-04

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.76898544, -63.89445764

*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)	7.65	Higher	3.67	Lower	7.65	1.63
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)	2.17	Lower	2.04	Moderate	3.89	1.00
Phosphorus Retention (PR)	1.57	Lower	1.29	Moderate	4.73	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	3.33	Lower	10.00	3.33
Carbon Sequestration (CS)	6.10	Moderate			8.09	
Organic Nutrient Export (OE)	8.35	Higher			5.46	
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)	5.23	Moderate	0.54	Lower	5.63	1.53
Amphibian & Turtle Habitat (AM)	1.10	Lower	4.13	Moderate	3.70	5.17
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)	6.32	Moderate	10.00	Higher	5.50	10.00
Pollinator Habitat (POL)	7.44	Moderate	10.00	Higher	6.17	10.00
Native Plant Habitat (PH)	2.70	Lower	7.22	Moderate	4.98	7.22
Public Use & Recognition (PU)			1.93	Moderate		1.62
Wetland Sensitivity (Sens)			7.69	Higher		4.36
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			5.55	Moderate		2.85
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.65	Higher	3.67	Lower	7.65	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.48	Higher	2.78	Lower	8.34	2.56
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.87	Higher	0.36	Lower	4.20	1.02
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.66	Lower	2.48	Moderate	2.22	3.10
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.47	Moderate	9.54	Higher	5.86	9.54
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			6.62	Moderate		3.61

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	28.04226751	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.77126973	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.109160957	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.640012145	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.67209687	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: 2024-11-04

Observer: Sasha Chilibeck

Latitude & Longitude (decimal degrees): 44.7676897, -63.89946615

*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)	8.76	Higher	3.67	Lower	8.48	1.63
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	2.63	Moderate	0.00	Lower	1.75	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	1.78	Moderate	10.00	0.87
Phosphorus Retention (PR)	10.00	Higher	0.86	Lower	10.00	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	4.00	Moderate	10.00	4.00
Carbon Sequestration (CS)	3.96	Moderate			7.07	
Organic Nutrient Export (OE)	7.40	Moderate			4.84	
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	5.04	Moderate	6.25	3.96
Amphibian & Turtle Habitat (AM)	10.00	Higher	5.94	Higher	8.39	6.65
Waterbird Feeding Habitat (WBF)	7.03	Higher	10.00	Higher	5.35	10.00
Waterbird Nesting Habitat (WBN)	7.47	Higher	10.00	Higher	5.41	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	5.29	Moderate	10.00	Higher	4.60	10.00
Pollinator Habitat (POL)	9.55	Higher	10.00	Higher	7.91	10.00
Native Plant Habitat (PH)	1.83	Lower	7.50	Moderate	4.63	7.50
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			8.46	Higher		4.58
Wetland Ecological Condition (EC)			7.10	Higher		8.61
Wetland Stressors (STR) (higher score means more stress)			5.01	Moderate		2.59
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	8.76	Higher	3.67	Lower	8.48	1.63
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.25	Higher	3.11	Lower	9.63	2.92
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.80	Higher	3.36	Lower	4.73	2.64
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	7.45	Higher	7.59	Higher	6.11	7.67
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.55	Higher	9.58	Higher	6.81	9.58
WETLAND CONDITION (EC)			7.10	Higher		8.61
WETLAND RISK (average of Sensitivity & Stressors)			6.73	Higher		3.59

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	32.12457476	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.71253769	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	19.48815312	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	56.5695633	Moderate
HABITAT SUPERGROUP - TRANSITION HABITAT	72.37001408	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: WL75

Date: 2024-07-24

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.76684722, -63.87907554

*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)	6.44	Moderate	2.99	Lower	6.75	1.33
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	3.00	Moderate	0.00	Lower	2.00	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.19	Moderate	10.00	1.07
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)	3.81	Moderate			7.00	
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)	2.02	Lower	3.66	Moderate	4.32	3.21
Amphibian & Turtle Habitat (AM)	3.23	Lower	6.29	Higher	4.82	6.95
Waterbird Feeding Habitat (WBF)	5.82	Moderate	10.00	Higher	4.43	10.00
Waterbird Nesting Habitat (WBN)	5.00	Moderate	10.00	Higher	3.63	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.36	Moderate	10.00	Higher	6.41	10.00
Pollinator Habitat (POL)	9.47	Higher	10.00	Higher	7.85	10.00
Native Plant Habitat (PH)	3.67	Moderate	8.09	Higher	5.37	8.09
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			10.00	Higher		5.59
Wetland Ecological Condition (EC)			7.10	Higher		8.61
Wetland Stressors (STR) (higher score means more stress)			7.21	Higher		3.65
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	6.44	Moderate	2.99	Lower	6.75	1.33
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.23	Higher	3.43	Moderate	9.62	3.18
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.36	Moderate	2.44	Lower	3.88	2.14
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.31	Moderate	7.63	Higher	3.70	7.69
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.15	Higher	9.68	Higher	7.20	9.68
WETLAND CONDITION (EC)			7.10	Higher		8.61
WETLAND RISK (average of Sensitivity & Stressors)			8.61	Higher		4.62

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	19.25434954	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	31.59983568	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	13.06432261	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	32.90130076	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	78.93710686	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: WL76

Date: 07/25/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.76667784, -63.88960778

*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)	7.33	Moderate	2.99	Lower	7.41	1.33
Stream Flow Support (SFS)	0.00	Lower	0.00	Lower	0.00	0.00
Water Cooling (WC)	4.13	Moderate	0.00	Lower	2.75	0.00
Sediment Retention & Stabilisation (SR)	10.00	Higher	2.01	Moderate	10.00	0.98
Phosphorus Retention (PR)	10.00	Higher	1.34	Moderate	10.00	1.04
Nitrate Removal & Retention (NR)	10.00	Higher	4.00	Moderate	10.00	4.00
Carbon Sequestration (CS)	4.31	Moderate			7.24	
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)	5.90	Higher	5.23	Moderate	5.90	4.06
Amphibian & Turtle Habitat (AM)	6.46	Moderate	7.07	Higher	6.51	7.58
Waterbird Feeding Habitat (WBF)	6.60	Higher	10.00	Higher	5.02	10.00
Waterbird Nesting Habitat (WBN)	7.04	Higher	10.00	Higher	5.11	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	8.87	Higher	10.00	Higher	7.72	10.00
Pollinator Habitat (POL)	9.62	Higher	10.00	Higher	7.97	10.00
Native Plant Habitat (PH)	2.72	Lower	8.57	Higher	4.99	8.57
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			7.70	Higher		4.37
Wetland Ecological Condition (EC)			8.26	Higher		9.17
Wetland Stressors (STR) (higher score means more stress)			6.96	Higher		3.53
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.33	Moderate	2.99	Lower	7.41	1.33
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	9.29	Higher	3.22	Moderate	9.65	3.00
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.32	Moderate	3.49	Lower	4.56	2.71
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	5.53	Moderate	7.71	Higher	4.92	7.76
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.35	Higher	9.76	Higher	7.43	9.76
WETLAND CONDITION (EC)			8.26	Higher		9.17
WETLAND RISK (average of Sensitivity & Stressors)			7.33	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	21.90138847	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.95506683	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	18.5328132	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	42.62378024	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.46772063	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: WL77

Date: 07/24/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.76544645, -63.87708769

*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)	9.10	Higher	3.27	Lower	8.74	1.45
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)	6.44	Moderate	0.91	Lower	7.22	0.44
Phosphorus Retention (PR)	1.98	Lower	0.86	Lower	4.98	0.67
Nitrate Removal & Retention (NR)	10.00	Higher	5.00	Moderate	10.00	5.00
Carbon Sequestration (CS)	8.60	Higher			9.27	
Organic Nutrient Export (OE)	7.82	Higher			5.11	
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)	5.26	Moderate	0.33	Lower	5.64	1.42
Amphibian & Turtle Habitat (AM)	0.75	Lower	3.94	Moderate	3.52	5.01
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)	5.78	Moderate	10.00	Higher	5.03	10.00
Pollinator Habitat (POL)	7.11	Moderate	10.00	Higher	5.89	10.00
Native Plant Habitat (PH)	3.12	Lower	6.97	Moderate	5.15	6.97
Public Use & Recognition (PU)			2.01	Moderate		1.68
Wetland Sensitivity (Sens)			10.00	Higher		5.50
Wetland Ecological Condition (EC)			4.78	Moderate		7.50
Wetland Stressors (STR) (higher score means more stress)			6.10	Higher		3.11
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	9.10	Higher	3.27	Lower	8.74	1.45
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	8.38	Higher	3.63	Moderate	8.93	3.52
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.54	Higher	0.22	Lower	4.16	0.95
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	0.45	Lower	2.36	Moderate	2.11	3.01
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	6.22	Moderate	9.50	Higher	5.62	9.50
WETLAND CONDITION (EC)			4.78	Moderate		7.50
WETLAND RISK (average of Sensitivity & Stressors)			8.05	Higher		4.30

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	29.77197285	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.38975763	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.233752178	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.057961391	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	59.07658303	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: WL78

Date: 07/24/2024

Observer: Leah Riehl

Latitude & Longitude (decimal degrees): 44.765576, -63.88536787

*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)	1.08	Lower	3.05	Lower	2.75	1.35
Stream Flow Support (SFS)	7.59	Higher	5.67	Moderate	6.11	3.77
Water Cooling (WC)	5.83	Higher	1.41	Lower	3.89	0.76
Sediment Retention & Stabilisation (SR)	2.08	Lower	9.30	Higher	3.82	4.56
Phosphorus Retention (PR)	1.30	Lower	8.13	Higher	4.56	6.32
Nitrate Removal & Retention (NR)	2.33	Lower	10.00	Higher	4.45	10.00
Carbon Sequestration (CS)	3.17	Lower			6.70	
Organic Nutrient Export (OE)	9.07	Higher			5.93	
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)	7.24	Higher	5.23	Moderate	6.45	4.06
Amphibian & Turtle Habitat (AM)	6.18	Moderate	6.90	Higher	6.36	7.44
Waterbird Feeding Habitat (WBF)	7.46	Higher	10.00	Higher	5.68	10.00
Waterbird Nesting Habitat (WBN)	7.84	Higher	10.00	Higher	5.69	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.64	Higher	10.00	Higher	6.65	10.00
Pollinator Habitat (POL)	9.15	Higher	10.00	Higher	7.58	10.00
Native Plant Habitat (PH)	6.32	Higher	8.08	Higher	6.42	8.08
Public Use & Recognition (PU)			2.54	Moderate		2.04
Wetland Sensitivity (Sens)			10.00	Higher		5.17
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			6.89	Higher		3.49
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	1.08	Lower	3.05	Lower	2.75	1.35
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	2.69	Moderate	9.57	Higher	5.79	8.48
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	8.25	Higher	4.89	Moderate	6.02	3.47
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	6.07	Moderate	7.69	Higher	4.95	7.74
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	8.43	Higher	9.68	Higher	7.23	9.68
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			8.44	Higher		4.33

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	3.289957905	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.78965871	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	40.33063485	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	46.67576732	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	81.57104326	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:WL79

Date: 07/31/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.76416704, -63.8900625

*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)	7.40	Moderate	3.10	Lower	7.47	1.38
Stream Flow Support (SFS)	0.45	Lower	0.00	Lower	0.36	0.00
Water Cooling (WC)	0.00	Lower	0.00	Lower	0.00	0.00
Sediment Retention & Stabilisation (SR)	2.17	Lower	1.36	Moderate	3.89	0.67
Phosphorus Retention (PR)	1.04	Lower	1.29	Moderate	4.40	1.00
Nitrate Removal & Retention (NR)	10.00	Higher	4.00	Moderate	10.00	4.00
Carbon Sequestration (CS)	7.26	Higher			8.64	
Organic Nutrient Export (OE)	8.07	Higher			5.28	
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)	6.77	Higher	0.89	Lower	6.26	1.72
Amphibian & Turtle Habitat (AM)	4.99	Moderate	3.77	Moderate	5.74	4.87
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)	5.29	Moderate	10.00	Higher	4.60	10.00
Pollinator Habitat (POL)	7.01	Moderate	10.00	Higher	5.81	10.00
Native Plant Habitat (PH)	1.98	Lower	6.80	Moderate	4.69	6.80
Public Use & Recognition (PU)			3.23	Moderate		2.52
Wetland Sensitivity (Sens)			7.29	Higher		4.25
Wetland Ecological Condition (EC)			6.52	Higher		8.33
Wetland Stressors (STR) (higher score means more stress)			8.19	Higher		4.12
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	7.40	Moderate	3.10	Lower	7.47	1.38
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	7.56	Higher	3.11	Lower	8.37	2.94
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	5.95	Higher	0.59	Lower	4.61	1.15
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	3.00	Moderate	2.26	Moderate	3.44	2.92
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	5.89	Moderate	9.47	Higher	5.42	9.47
WETLAND CONDITION (EC)			6.52	Higher		8.33
WETLAND RISK (average of Sensitivity & Stressors)			7.74	Higher		4.18

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	22.94853911	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.49211533	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.532749367	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	6.77555107	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.72257102	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: WL 80

Date: 10/10/2024

Observer: Christina Daffre

Latitude & Longitude (decimal degrees): 44.76370276, -63.88706203

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)	3.47	Lower	2.59	Lower	4.54	1.15
Stream Flow Support (SFS)	2.87	Moderate	4.89	Moderate	2.31	3.25
Water Cooling (WC)	7.83	Higher	0.99	Lower	5.22	0.54
Sediment Retention & Stabilisation (SR)	1.77	Lower	8.02	Higher	3.58	3.93
Phosphorus Retention (PR)	2.34	Lower	7.93	Higher	5.21	6.17
Nitrate Removal & Retention (NR)	3.44	Moderate	10.00	Higher	5.26	10.00
Carbon Sequestration (CS)	3.88	Moderate			7.03	
Organic Nutrient Export (OE)	9.27	Higher			6.06	
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)	5.42	Moderate	4.20	Moderate	5.71	3.51
Amphibian & Turtle Habitat (AM)	6.06	Moderate	6.29	Higher	6.30	6.95
Waterbird Feeding Habitat (WBF)	5.34	Moderate	10.00	Higher	4.07	10.00
Waterbird Nesting Habitat (WBN)	5.40	Moderate	10.00	Higher	3.91	10.00
Songbird, Raptor, & Mammal Habitat (SBM)	7.78	Higher	10.00	Higher	6.77	10.00
Pollinator Habitat (POL)	7.94	Moderate	10.00	Higher	6.58	10.00
Native Plant Habitat (PH)	5.43	Moderate	7.78	Higher	6.07	7.78
Public Use & Recognition (PU)			2.10	Moderate		1.74
Wetland Sensitivity (Sens)			9.10	Higher		4.76
Wetland Ecological Condition (EC)			10.00	Higher		10.00
Wetland Stressors (STR) (higher score means more stress)			4.48	Moderate		2.34
<b>Summary Ratings for Grouped Functions:</b>						
HYDROLOGIC Group (WS)	3.47	Lower	2.59	Lower	4.54	1.15
WATER QUALITY SUPPORT Group (max+avg/2 of SR, PR, NR, CS)	3.37	Moderate	9.32	Higher	6.15	8.35
AQUATIC SUPPORT Group (max+avg/2 of SFS, INV, OE, WC)	7.81	Higher	4.12	Moderate	5.44	2.97
AQUATIC HABITAT Group (max+avg/2 of FA, FR, AM, WBF, WBN)	4.71	Moderate	7.63	Higher	4.58	7.69
TRANSITION HABITAT Group (max+avg/2 of SBM, PH, POL)	7.50	Higher	9.63	Higher	6.62	9.63
WETLAND CONDITION (EC)			10.00	Higher		10.00
WETLAND RISK (average of Sensitivity & Stressors)			6.79	Higher		3.55

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	9.01182705	Low
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	31.39441368	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	32.21231004	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	35.94171366	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	72.20392415	Low

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

**CONCLUSION:**            **Site is not a WSS**

APPENDIX H  
FLORA INVENTORY

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Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
<b>Plants (Vascular)</b>					
Alleghaney Blackberry	<i>Rubus allegheniensis</i>	---	---	---	S5
American Beech	<i>Fagus grandifolia</i>	---	---	---	S3S4
American Mountain Ash	<i>Sorbus americana</i>	---	---	---	S5
American Witch-Hazel	<i>Hamamelis virginiana</i>	---	---	---	S5
Arethusa	<i>Arethusa bulbosa</i>	---	---	---	S4
Azure bluet	<i>Houstonia caerulea</i>	---	---	---	S5
Balsam Fir	<i>Abies balsamea</i>	---	---	---	S5
Bebb's Willow	<i>Salix bebbiana</i>	---	---	---	S5
Black Chokeberry	<i>Aronia melanocarpa</i>	---	---	---	S5
Black Huckleberry	<i>Centaurea nigra</i>	---	---	---	S5
Black knapweed	<i>Carex arctata</i>	---	---	---	SNA
Black sedge	<i>Picea mariana</i>	---	---	---	S5
Black Spruce	<i>Scirpus atrocinctus</i>	---	---	---	S5
Black-girdled bulrush	<i>Gaylussacia baccata</i>	---	---	---	S5
Bluejoint Reed Grass	<i>Calamagrostis canadensis</i> var. <i>canadensis</i>	---	---	---	S5
Bog Aster	<i>Oclemena nemoralis</i>	---	---	---	S5
Bog Rosemary	<i>Andromeda polifolia</i>	---	---	---	S5
Boreal Bog Sedge	<i>Carex magellanica</i>	---	---	---	S5
Bracken Fern	<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	---	---	---	S5
Bristly Dewberry	<i>Rubus hispidus</i>	---	---	---	S5
Bristly Sarsaparilla	<i>Aralia hispida</i>	---	---	---	S5
Bristly-stalked Sedge	<i>Carex leptalea</i>	---	---	---	S5
Broad-leaved Cattail	<i>Typha latifolia</i>	---	---	---	S5
Broom Sedge	<i>Carex scoparia</i>	---	---	---	S5
Brownish Sedge	<i>Carex bromoides</i> ssp. <i>bromoides</i>	---	---	---	S4
Bunchberry	<i>Cornus canadensis</i>	---	---	---	S5
Button sedge	<i>Carex bullata</i>	---	---	---	S4
Calico Aster	<i>Symphyotrichum laeve</i> var. <i>laeve</i>	---	---	---	SNA
Canada Fly Honeysuckle	<i>Lonicera canadensis</i>	---	---	---	S5
Canada Goldenrod	<i>Solidago canadensis</i> var. <i>canadensis</i>	---	---	---	S4S5
Canada rush	<i>Juncus canadensis</i>	---	---	---	S5
Carolina Rose	<i>Rosa carolina</i> ssp. <i>carolina</i>	---	---	---	S4S5
Christmas Fern	<i>Polystichum acrostichoides</i>	---	---	---	S5
Cinnamon Fern	<i>Osmundastrum cinnamomeum</i>	---	---	---	S5
Clasping-leaved Twisted-stalk	<i>Streptopus amplexifolius</i>	---	---	---	S4S5
Club Spur Orchid	<i>Platanthera clavellata</i>	---	---	---	S5

Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
Coltsfoot	<i>Tussilago farfara</i>	---	---	---	SNA
Common Boneset	<i>Eupatorium perfoliatum</i>	---	---	---	S5
Common dandelion	<i>Taraxacum officinale</i>	---	---	---	SNA
Common hawkweed	<i>Hieracium lachenalii</i>	---	---	---	SNA
Common Labrador Tea	<i>Rhododendron groenlandicum</i>	---	---	---	S5
Common Oak Fern	<i>Gymnocarpium dryopteris</i>	---	---	---	S5
Common ragwort	<i>Senecio vulgaris</i>	---	---	---	SNA
Common Self-heal	<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	---	---	---	S5
Common Speedwell	<i>Veronica officinalis</i>	---	---	---	SNA
Common St. John's-wort	<i>Hypericum perforatum</i> ssp. <i>perforatum</i>	---	---	---	SNA
Common timothy	<i>Phleum pratense</i>	---	---	---	SNA
Common water parsnip	<i>Sium suave</i>	---	---	---	S5
Common Winterberry	<i>Ilex verticillata</i>	---	---	---	S5
Common Wood Sorrel	<i>Oxalis montana</i>	---	---	---	S5
Common Woolly Bulrush	<i>Scirpus cyperinus</i>	---	---	---	S5
Convulsion-Root	<i>Monotropa uniflora</i>	---	---	---	S5
Creeping Snowberry	<i>Gaultheria hispidula</i>	---	---	---	S5
Crested Wood Fern	<i>Dryopteris cristata</i>	---	---	---	S5
Cucumber Root	<i>Medeola virginiana</i>	---	---	---	S5
Dwarf Red Raspberry	<i>Rubus pubescens</i>	---	---	---	S5
Eastern Hay-Scented Fern	<i>Dennstaedtia punctilobula</i>	---	---	---	S5
Eastern Hemlock	<i>Tsuga canadensis</i>	---	---	---	S4
Eastern poison ivy	<i>Toxicodendron radicans</i> var. <i>radicans</i>	---	---	---	S4
Eastern Teaberry	<i>Gaultheria procumbens</i>	---	---	---	S5
Eastern White Pine	<i>Pinus strobus</i>	---	---	---	S5
Evergreen Wood Fern	<i>Dryopteris intermedia</i>	---	---	---	S5
Few-Flowered Sedge	<i>Carex pauciflora</i>	---	---	---	S4S5
Fibrous-root sedge	<i>Carex communis</i> var. <i>communis</i>	---	---	---	S5
Field Horsetail	<i>Equisetum arvense</i>	---	---	---	S5
Fireweed	<i>Chamaenerion angustifolium</i> ssp. <i>angustifolium</i>	---	---	---	SNA
Fowl Manna Grass	<i>Glyceria striata</i>	---	---	---	S5
Fraser's St. John's-wort	<i>Hypericum fraseri</i>	---	---	---	S5
Fringed Black Bindweed	<i>Fallopia cilinodis</i>	---	---	---	S5
Fringed Sedge	<i>Carex crinita</i> var. <i>crinita</i>	---	---	---	S5
Garden Bird's-foot Trefoil	<i>Lotus corniculatus</i>	---	---	---	SNA
Goldthread	<i>Coptis trifolia</i>	---	---	---	S5
Graceful Sedge	<i>Carex gracillima</i>	---	---	---	S5

Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
Grass-leaved Goldenrod	<i>Euthamia graminifolia</i>	---	---	---	S5
Gray Birch	<i>Betula populifolia</i>	---	---	---	S5
Green alder	<i>Alnus alnobetula</i>	---	---	---	S5
Hairy Flat-top White Aster	<i>Doellingeria umbellata</i>	---	---	---	S5
Harlequin Blue Flag	<i>Iris versicolor</i>	---	---	---	S5
Heart-leaved Twayblade	<i>Utricularia cornuta</i>	---	---	---	S4
Horned bladderwort	<i>Neottia cordata</i>	---	---	---	S5
Interrupted Fern	<i>Claytosmunda claytoniana</i>	---	---	---	S5
Large Cranberry	<i>Vaccinium macrocarpon</i>	---	---	---	S5
Large sweet vernal grass	<i>Anthoxanthum odoratum</i>	---	---	---	SNA
Large-toothed Aspen	<i>Populus grandidentata</i>	---	---	---	S5
Late Lowbush Blueberry	<i>Vaccinium angustifolium</i>	---	---	---	S5
Leatherleaf	<i>Chamaedaphne calyculata</i>	---	---	---	S5
Mountain Cranberry	<i>Vaccinium vitis-idaea</i>	---	---	---	S4S5
Mountain Holly	<i>Ilex mucronata</i>	---	---	---	S5
Mountain Maple	<i>Acer spicatum</i>	---	---	---	S5
Multiflora Rose	<i>Rosa multiflora</i>	---	---	---	SNA
Necklace spike sedge	<i>Carex ormostachya</i>	---	---	---	S1
Needle spikerush	<i>Eleocharis acicularis</i>	---	---	---	S5
New York Fern	<i>Parathelypteris noveboracensis</i>	---	---	---	S5
Nodding sedge	<i>Carex gynandra</i>	---	---	---	S5
Northern bayberry	<i>Morella pensylvanica</i>	---	---	---	S5
Northern Beech Fern	<i>Phegopteris connectilis</i>	---	---	---	S5
Northern bog goldenrod	<i>Solidago uliginosa</i>	---	---	---	S5
Northern Bush Honeysuckle	<i>Diervilla lonicera</i>	---	---	---	S5
Northern Long Sedge	<i>Carex folliculata</i>	---	---	---	S5
Northern Pitcher Plant	<i>Sarracenia purpurea</i>	---	---	---	S5
Northern Shorthusk	<i>Brachyelytrum aristosum</i>	---	---	---	S5
Northern Starflower	<i>Lysimachia borealis</i>	---	---	---	S5
Northern Water Horehound	<i>Lycopus uniflorus</i>	---	---	---	S5
Northern Wild Raisin	<i>Viburnum cassinoides</i>	---	---	---	S5
Old field cinquefoil	<i>Potentilla simplex</i>	---	---	---	S5
Oxeye Daisy	<i>Leucanthemum vulgare</i>	---	---	---	SNA
Painted Trillium	<i>Trillidium undulatum</i>	---	---	---	S5
Pale Bog Laurel	<i>Kalmia polifolia</i>	---	---	---	S5
Paper Birch	<i>Betula papyrifera</i>	---	---	---	S5
Partridgeberry	<i>Mitchella repens</i>	---	---	---	S5
Pearly Everlasting	<i>Anaphalis margaritacea</i>	---	---	---	S5

Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
Pickerelweed	<i>Pontederia cordata</i>	---	---	---	S5
Pin Cherry	<i>Prunus pensylvanica</i>	---	---	---	S5
Pinesap	<i>Hypopitys monotropa</i>	---	---	---	S4
Pink Lady's-Slipper	<i>Cypripedium acaule</i>	---	---	---	S5
Pussy Willow	<i>Salix discolor</i>	---	---	---	S5
Queen Anne's lace	<i>Daucus carota</i>	---	---	---	SNA
Red Elderberry	<i>Sambucus racemosa</i>	---	---	---	S5
Red Maple	<i>Acer rubrum</i>	---	---	---	S5
Red Raspberry	<i>Rubus idaeus</i>	---	---	---	S5
Red Spruce	<i>Picea rubens</i>	---	---	---	S5
Rhodora	<i>Rhododendron canadense</i>	---	---	---	S5
Rock Polypody	<i>Polypodium virginianum</i>	---	---	---	S5
Rose Pogonia	<i>Pogonia ophioglossoides</i>	---	---	---	S4S5
Rose Twisted-stalk	<i>Streptopus lanceolatus</i>	---	---	---	S5
Rough-stemmed Goldenrod	<i>Solidago rugosa</i>	---	---	---	S5
Round-branched Tree-clubmoss	<i>Dendrolycopodium dendroideum</i>	---	---	---	S5
Round-leaved Sundew	<i>Drosera rotundifolia</i>	---	---	---	S5
Royal Fern	<i>Osmunda regalis</i>	---	---	---	S5
Running clubmoss	<i>Lycopodium clavatum</i>	---	---	---	S5
Sallow Sedge	<i>Carex lurida</i>	---	---	---	S5
Sensitive Fern	<i>Onoclea sensibilis</i>	---	---	---	S5
Sheep Laurel	<i>Kalmia angustifolia</i> var. <i>angustifolia</i>	---	---	---	S5
Shining Rose	<i>Rosa nitida</i>	---	---	---	S4S5
Silvery Sedge	<i>Carex canescens</i> ssp. <i>canescens</i>	---	---	---	S4?
Slender rush	<i>Juncus tenuis</i>	---	---	---	S5
Small Cranberry	<i>Vaccinium oxycoccos</i>	---	---	---	S5
Small Forget-Me-Not	<i>Myosotis laxa</i>	---	---	---	S5
Smooth Blackberry	<i>Rubus canadensis</i>	---	---	---	S5
Smooth Serviceberry	<i>Amelanchier laevis</i>	---	---	---	S5
Soft Rush	<i>Juncus effusus</i> ssp. <i>effusus</i>	---	---	---	SNR
Southern Twayblade	<i>Neottia bifolia</i>	---	---	---	S3
Speckled Alder	<i>Alnus incana</i>	---	---	---	S5
Spinulose Wood Fern	<i>Dryopteris carthusiana</i>	---	---	---	S5
Spoon-leaved sundew	<i>Drosera intermedia</i>	---	---	---	S5
Spotted Jewelweed	<i>Impatiens capensis</i>	---	---	---	S5
Spreading Dogbane	<i>Apocynum androsaemifolium</i>	---	---	---	S5
Star Sedge	<i>Carex echinata</i> ssp. <i>echinata</i>	---	---	---	S5
Steeplebush	<i>Spiraea tomentosa</i>	---	---	---	S5

Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
Stiff Clubmoss	<i>Spinulum annotinum ssp. annotinum</i>	---	---	---	S5
Striped Maple	<i>Acer pensylvanicum</i>	---	---	---	S5
Sugar Maple	<i>Acer saccharinum</i>	---	---	---	S1
Swamp Yellow Loosestrife	<i>Lysimachia terrestris</i>	---	---	---	S5
Sweet gale	<i>Myrica gale</i>	---	---	---	S5
Sweet-fern	<i>Comptonia peregrina</i>	---	---	---	S5
Tall meadow-rue	<i>Thalictrum pubescens</i>	---	---	---	S5
Tall Rattlesnakeroot	<i>Nabalus altissimus</i>	---	---	---	S5
Tamarack	<i>Larix laricina</i>	---	---	---	S5
Tawny Cottongrass	<i>Eriophorum virginicum</i>	---	---	---	S5
Three-leaved False Solomon's Seal	<i>Maianthemum trifolium</i>	---	---	---	S5
Three-leaved Rattlesnakeroot	<i>Nabalus trifoliolatus</i>	---	---	---	S5
Three-seeded Sedge	<i>Carex trisperma</i>	---	---	---	S5
Three-Way Sedge	<i>Dulichium arundinaceum</i>	---	---	---	S5
Trailing Arbutus	<i>Epigaea repens</i>	---	---	---	S5
Trembling Aspen	<i>Populus tremuloides</i>	---	---	---	S5
Tuberous grass pink	<i>Calopogon tuberosus</i>	---	---	---	S4S5
Tussock Sedge	<i>Carex striatula</i>	---	---	---	SNA
Twinflower	<i>Linnaea borealis ssp. longiflora</i>	---	---	---	S5
Two-seeded Sedge	<i>Carex disperma</i>	---	---	---	S5
Umbellate Hawkweed	<i>Hieracium umbellatum</i>	---	---	---	S5
Upland Willow	<i>Salix humilis var. humilis</i>	---	---	---	S5
Variiegated Pond-lily	<i>Nuphar variegata</i>	---	---	---	S5
Velvet-leaved Blueberry	<i>Vaccinium myrtilloides</i>	---	---	---	S5
Virginia St. John's-wort	<i>Hypericum virginicum</i>	---	---	---	S5
Water Smartweed	<i>Persicaria amphibia</i>	---	---	---	S4S5
White clover	<i>Trifolium repens</i>	---	---	---	SNA
White Meadowsweet	<i>Spiraea alba</i>	---	---	---	S5
White Spruce	<i>Picea glauca</i>	---	---	---	S5
Whorled Wood Aster	<i>Oclemena acuminata</i>	---	---	---	S5
Wild Lily-of-the-valley	<i>Maianthemum canadense ssp. canadense</i>	---	---	---	S5
Wild Sarsaparilla	<i>Aralia nudicaulis</i>	---	---	---	S5
Wild Strawberry	<i>Fragaria virginiana ssp. glauca</i>	---	---	---	S5
Woodland Horsetail	<i>Equisetum sylvaticum</i>	---	---	---	S5
Woolly panic grass	<i>Dichanthelium acuminatum</i>	---	---	---	SNA
Yellow birch	<i>Betula alleghaniensis</i>	---	---	---	S5
Yellow Bluebead Lily	<i>Clintonia borealis</i>	---	---	---	S5

Common Name	Scientific Name	COSEWIC	SARA	ESA	S-Rank
Yellow clover	<i>Trifolium aureum</i>	---	---	---	SNA
Yellow sedge	<i>Carex flava</i>	---	---	---	S5
<b>Lichens (non-vascular)</b>					
A stubble lichen	<i>Chaenotheca brachypoda</i>	---	---	---	S3S4
Blistered jellyskin lichen	<i>Leptogium corticola</i>	---	---	---	S3S4
Blue felt lichen	<i>Pectenium plumbeum</i>	Special Concern	Special Concern	Vulnerable	S3
Eastern candlewax lichen	<i>Ahtiana aurescens</i>	---	---	---	S2S3
Finger ring lichen	<i>Arctoparmelia incurva</i>	---	---	---	S3S4
Fragile coral lichen	<i>Sphaerophorus fragilis</i>	---	---	---	S3S4
Fringe lichen	<i>Heterodermia neglecta</i>	---	---	---	S3S4
Frosted glass-whiskers (Atlantic population)	<i>Sclerophora peronella (Atlantic pop.)</i>	Special Concern	Special Concern	---	S3S4
Powdered fringe lichen	<i>Heterodermia speciosa</i>	---	---	---	S3S4
Powder-tipped antler lichen	<i>Hypotrachyna catawbiensis</i>	---	---	---	S2
Rockgossamer lichen	<i>Cystocoleus ebeneus</i>	---	---	---	S2
Roughened shingle lichen	<i>Fuscopannaria ahlneri</i>	---	---	---	S3
Salted shell lichen	<i>Coccocarpia palmicola</i>	---	---	---	S3S4
Shaggy fringed lichen	<i>Anaptychia palmulata</i>	---	---	---	S3S4

APPENDIX I  
TERRESTRIAL FAUNA

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Photo 1: Snowshoe hare (*Lepus americanus*) tracks photographed by iPad mini 12:42 on March 4, 2022, during winter tracking surveys.



Photo 2: Red squirrel (*Tamiasciurus hudsonicus*) blood and fur photographed by iPad mini at 14:11 on March 4, 2022 during winter tracking surveys.



Photo 3: North American porcupine (*Erethizon dorsata*) tracks photographed by iPad mini at 15:10 on March 4, 2022, during winter tracking surveys.



Photo 4: Red fox (*Vulpes vulpes*) photographed March 5, 2022, during winter tracking surveys.



Photo 5: Eastern coyote (*Canis latrans*) photographed at 20:03 March 23, 2022, by trail camera located at main road trail.

Photo Not Available

Photo 6: Groundhog (*Marmota monax*) recorded by iPad at 14:02 on April 24, 2023, during old growth forest surveys. Photo not captured due to brief encounter.





Photo 7: American mink (*Neovison vison*) photographed by iPhone at 14:12 on April 24, 2023, during old growth forest surveys.



Photo 8: White-tailed deer (*Odocoileus virginianus*) photographed at 19:40 May 5, 2022, by trail camera located at main road trail.



Photo 9: American black bear (*Ursus americanus*) photographed at 13:01 May 12, 2022, by trail camera located at main road trail.



Photo 10: Snapping turtle (*Chelydra serpentina*) photographed by iPad mini at 14:42 on August 30, 2022 during electrofishing surveys.



Photo 11: Bobcat (*Lynx rufus*) tracks photographed by iPad mini at 15:08 on March 3, 2023, during winter tracking surveys.



Photo 12: Probable Fisher (*Pekania pennanti*) tracks photographed by iPad mini at 10:15 on February 21, 2024, during winter tracking surveys.

APPENDIX J  
AVIFAUNA

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Table 1: BirdNET SAR/SOCI Species List

Project # 24-9856

Common Name	Scientific Name
American Bittern	<i>Botaurus lentiginosus</i>
American Coot	<i>Fulica americana</i>
American Kestrel	<i>Falco sparverius</i>
American Robin	<i>Turdus migratorius</i>
American Three-toed Woodpecker	<i>Picoides dorsalis</i>
Arctic Tern	<i>Sterna paradisaea</i>
Atlantic Puffin	<i>Fratercula arctica</i>
Baltimore Oriole	<i>Icterus galbula</i>
Bank Swallow	<i>Riparia riparia</i>
Barn Swallow	<i>Hirundo rustica</i>
Barrow's Goldeneye	<i>Bucephala islandica</i>
Bay-breasted Warbler	<i>Setophaga castanea</i>
Bicknell's Thrush	<i>Catharus bicknelli</i>
Black Scoter	<i>Melanitta americana</i>
Black Tern	<i>Chlidonias niger</i>
Black-backed Woodpecker	<i>Picoides arcticus</i>
Black-bellied Plover	<i>Pluvialis squatarola</i>
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
Black-headed Gull	<i>Chroicocephalus ridibundus</i>
Black-legged Kittiwake	<i>Rissa tridactyla</i>
Blackpoll Warbler	<i>Setophaga striata</i>
Blue-winged Teal	<i>Spatula discors</i>
Bobolink	<i>Dolichonyx oryzivorus</i>
Boreal Owl	<i>Aegolius funereus</i>
Brown Thrasher	<i>Toxostoma rufum</i>
Brown-headed Cowbird	<i>Molothrus ater</i>
Canada Goose	<i>Branta canadensis</i>
Canada Jay	<i>Perisoreus canadensis</i>
Canada Warbler	<i>Cardellina canadensis</i>
Cape May Warbler	<i>Setophaga tigrina</i>
Chimney Swift	<i>Chaetura pelagica</i>
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>
Common Eider	<i>Somateria mollissima</i>
Common Gallinule	<i>Gallinula galeata</i>
Common Goldeneye	<i>Bucephala clangula</i>
Common Murre	<i>Uria aalge</i>
Common Nighthawk	<i>Chordeiles minor</i>
Common Tern	<i>Sterna hirundo</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Eastern Bluebird	<i>Sialia sialis</i>
Eastern Kingbird	<i>Tyrannus tyrannus</i>
Eastern Meadowlark	<i>Sturnella magna</i>
Eastern Whip-poor-will	<i>Antrostomus vociferus</i>

Table 1: BirdNET SAR/SOCI Species List

Project # 24-9856

Common Name	Scientific Name
Eastern Wood-Pewee	<i>Contopus virens</i>
Evening Grosbeak	<i>Coccothraustes vespertinus</i>
Fox Sparrow	<i>Passerella iliaca</i>
Gadwall	<i>Mareca strepera</i>
Gray-cheeked Thrush	<i>Catharus minimus</i>
Great Blue Heron	<i>Ardea herodias</i>
Great Cormorant	<i>Phalacrocorax carbo</i>
Great Crested Flycatcher	<i>Myiarchus crinitus</i>
Greater Scaup	<i>Aythya marila</i>
Greater Yellowlegs	<i>Tringa melanoleuca</i>
Horned Lark	<i>Eremophila alpestris</i>
Indigo Bunting	<i>Passerina cyanea</i>
Killdeer	<i>Charadrius vociferus</i>
King Rail	<i>Rallus elegans</i>
Lapland Longspur	<i>Calcarius lapponicus</i>
Laughing Gull	<i>Leucophaeus atricilla</i>
Leach's Storm-Petrel	<i>Hydrobates leucorhous</i>
Least Bittern	<i>Ixobrychus exilis</i>
Least Sandpiper	<i>Calidris minutilla</i>
Lesser Scaup	<i>Aythya affinis</i>
Lesser Yellowlegs	<i>Tringa flavipes</i>
Loggerhead Shrike	<i>Lanius ludovicianus</i>
Long-eared Owl	<i>Asio otus</i>
Manx Shearwater	<i>Puffinus puffinus</i>
Marsh Wren	<i>Cistothorus palustris</i>
Northern Gannet	<i>Morus bassanus</i>
Northern Goshawk	<i>Accipiter gentilis</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Northern Pintail	<i>Anas acuta</i>
Northern Saw-whet Owl	<i>Aegolius acadicus</i>
Northern Shoveler	<i>Spatula clypeata</i>
Olive-sided Flycatcher	<i>Contopus cooperi</i>
Peregrine Falcon	<i>Falco peregrinus</i>
Philadelphia Vireo	<i>Vireo philadelphicus</i>
Pileated Woodpecker	<i>Dryocopus pileatus</i>
Pine Grosbeak	<i>Pinicola enucleator</i>
Pine Siskin	<i>Spinus pinus</i>
Pine Warbler	<i>Setophaga pinus</i>
Piping Plover	<i>Charadrius melodus</i>
Purple Finch	<i>Haemorhous purpureus</i>
Purple Martin	<i>Progne subis</i>
Razorbill	<i>Alca torda</i>
Red Crossbill	<i>Loxia curvirostra</i>
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>

**Table 1: BirdNET SAR/SOCI Species List**

**Project # 24-9856**

Common Name	Scientific Name
Red-breasted Merganser	<i>Mergus serrator</i>
Redhead	<i>Aythya americana</i>
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>
Ring-billed Gull	<i>Larus delawarensis</i>
Roseate Tern	<i>Sterna dougallii</i>
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>
Rough-legged Hawk	<i>Buteo lagopus</i>
Ruddy Duck	<i>Oxyura jamaicensis</i>
Rusty Blackbird	<i>Euphagus carolinus</i>
Scarlet Tanager	<i>Piranga olivacea</i>
Semipalmated Plover	<i>Charadrius semipalmatus</i>
Semipalmated Sandpiper	<i>Calidris pusilla</i>
Short-eared Owl	<i>Asio flammeus</i>
Solitary Sandpiper	<i>Tringa solitaria</i>
Spotted Sandpiper	<i>Actitis macularius</i>
Surf Scoter	<i>Melanitta perspicillata</i>
Tennessee Warbler	<i>Leiothlypis peregrina</i>
Turkey Vulture	<i>Cathartes aura</i>
Vesper Sparrow	<i>Poocetes gramineus</i>
Virginia Rail	<i>Rallus limicola</i>
Warbling Vireo	<i>Vireo gilvus</i>
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>
Willet	<i>Tringa semipalmata</i>
Willow Flycatcher	<i>Empidonax traillii</i>
Wilson's Snipe	<i>Gallinago delicata</i>
Wilson's Warbler	<i>Cardellina pusilla</i>
Wood Thrush	<i>Hylocichla mustelina</i>
Yellow Rail	<i>Coturnicops noveboracensis</i>
Yellow-breasted Chat	<i>Icteria virens</i>

**Table 2: Species Detectable by Nighthawk**

**Project # 24-9856**

Common Name	Scientific Name
American Redstart	<i>Setophaga ruticilla</i>
American Bittern	<i>Botaurus lentiginosus</i>
American Pipit	<i>Anthus rubescens</i>
American Robin	<i>Turdus migratorius</i>
American Tree Sparrow	<i>Spizelloides arborea</i>
Bicknell's Thrush	<i>Catharus bicknelli</i>
Black Oystercatcher	<i>Haematopus bachmani</i>
Black Skimmer	<i>Rynchops niger</i>
Black-and-white Warbler	<i>Mniotilta varia</i>
Black-bellied Plover	<i>Pluvialis squatarola</i>
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>
Bobolink	<i>Dolichonyx oryzivorus</i>
Brewer's Sparrow	<i>Spizella breweri</i>
Canada Warbler	<i>Cardellina canadensis</i>
Cape May Warbler	<i>Setophaga tigrina</i>
Cerulean Warbler	<i>Setophaga cerulea</i>
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>
Chipping Sparrow	<i>Spizella passerina</i>
Clay-colored Sparrow	<i>Spizella pallida</i>
Common Tern	<i>Sterna hirundo</i>
Common Yellowthroat	<i>Geothlypis trichas</i>
Dark-eyed Junco	<i>Junco hyemalis</i>
Dickcissel	<i>Spiza americana</i>
Eastern Meadowlark	<i>Sturnella magna</i>
Forster's Tern	<i>Sterna forsteri</i>
Golden-crowned Kinglet	<i>Regulus satrapa</i>
Golden-winged Warbler	<i>Vermivora chrysoptera</i>
Grasshopper Sparrow	<i>Ammodramus savannarum</i>
Gray-cheeked Thrush	<i>Catharus minimus</i>
Great Egret	<i>Ardea alba</i>
Greater Yellowlegs	<i>Tringa melanoleuca</i>
Green Heron	<i>Butorides virescens</i>
Harris's Sparrow	<i>Zonotrichia querula</i>
Henslow's Sparrow	<i>Centronyx henslowii</i>
Hermit Thrush	<i>Catharus guttatus</i>
Hermit Warbler	<i>Setophaga occidentalis</i>
Hooded Warbler	<i>Setophaga citrina</i>
Indigo Bunting	<i>Passerina cyanea</i>
Kentucky Warbler	<i>Geothlypis formosa</i>
Killdeer	<i>Charadrius vociferus</i>
Kirtland's Warbler	<i>Setophaga kirtlandii</i>
Lapland Longspur	<i>Calcarius lapponicus</i>
Lark Sparrow	<i>Chondestes grammacus</i>



**Table 2: Species Detectable by Nighthawk**

**Project # 24-9856**

Common Name	Scientific Name
Least Bittern	<i>Ixobrychus exilis</i>
Least Sandpiper	<i>Calidris minutilla</i>
Lesser Yellowlegs	<i>Tringa flavipes</i>
Lincoln's Sparrow	<i>Melospiza lincolni</i>
MacGillivray's Warbler	<i>Geothlypis tolmiei</i>
Mourning Warbler	<i>Geothlypis philadelphia</i>
Nashville Warbler	<i>Leiothlypis ruficapilla</i>
Northern Parula	<i>Setophaga americana</i>
Northern Waterthrush	<i>Parkesia noveboracensis</i>
Orchard Oriole	<i>Icterus spurius</i>
Ovenbird	<i>Seiurus aurocapilla</i>
Painted Bunting	<i>Passerina ciris</i>
Palm Warbler	<i>Setophaga palmarum</i>
Red-breasted Nuthatch	<i>Sitta canadensis</i>
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>
Savannah Sparrow	<i>Passerculus sandwichensis</i>
Scarlet Tanager	<i>Piranga olivacea</i>
Seaside Sparrow	<i>Ammospiza maritima</i>
Semipalmated Plover	<i>Charadrius semipalmatus</i>
Short-billed Dowitcher	<i>Limnodromus griseus</i>
Solitary Sandpiper	<i>Tringa solitaria</i>
Spotted Sandpiper	<i>Actitis macularius</i>
Sprague's Pipit	<i>Anthus spragueii</i>
Summer Tanager	<i>Piranga rubra</i>
Swainson's Thrush	<i>Catharus ustulatus</i>
Upland Sandpiper	<i>Bartramia longicauda</i>
Veery	<i>Catharus fuscescens</i>
Vesper Sparrow	<i>Poocetes gramineus</i>
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>
White-throated Sparrow	<i>Zonotrichia albicollis</i>
Wilson's Snipe	<i>Gallinago delicata</i>
Wilson's Warbler	<i>Cardellina pusilla</i>
Wood Thrush	<i>Hylocichla mustelina</i>
Worm-eating Warbler	<i>Helmitheros vermivorum</i>
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>
Yellow-rumped Warbler	<i>Setophaga coronata</i>
Yellow-throated Warbler	<i>Setophaga dominica</i>

**Table 3: Species Summary - 2022 Winter Point Count Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	3
American Goldfinch	Carduelis tristis	6	Not Listed	Not Listed	Not Listed	S5	1
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	6
Black-capped Chickadee	Poecile atricapilla	6	Not Listed	Not Listed	Not Listed	S5	74
Barred Owl	Strix varia	5	Not Listed	Not Listed	Not Listed	S5	2
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	6
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	SU	2
Brown Creeper	Certhia americana	6	Not Listed	Not Listed	Not Listed	S5	1
Canada Goose	Branta canadensis	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	1
Canada Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	5
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	22
Dark-eyed Junco	Junco hyemalis	6	Not Listed	Not Listed	Not Listed	S4S5	10
Golden-crowned Kinglet	Regulus satrapa	6	Not Listed	Not Listed	Not Listed	S5	6
Hairy Woodpecker	Picoides villosus	7	Not Listed	Not Listed	Not Listed	SU	8
Northern Shrike	Lanius borealis	6	Not Listed	Not Listed	Not Listed	S3S4N	1
Pine Siskin	Carduelis pinus	6	Not Listed	Not Listed	Not Listed	S5	3
Pileated Woodpecker	Dryocopus pileatus	7	Not Listed	Not Listed	Not Listed	S5	10
Purple Finch	Carpodacus purpureus	6	Not Listed	Not Listed	Not Listed	S5	5
Red-breasted Nuthatch	Sitta canadensis	6	Not Listed	Not Listed	Not Listed	S4S5	24
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3, S4	16
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	1
Ruffed Grouse	Bonasa umbellus	7	Not Listed	Not Listed	Not Listed	S5	3
Song Sparrow	Melospiza melodia	6	Not Listed	Not Listed	Not Listed	S5B	1
Spruce Grouse	Falcapennis canadensis	7	Not Listed	Not Listed	Not Listed	SU	1
White-winged Crossbill	Loxia leucoptera	6	Not Listed	Not Listed	Not Listed	S4S5	20
Woodpecker Species		7					1



Table 4: Species Data - 2022 Winter Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
6-Feb-22	Point Count	CP	ML 1	7:56	10	BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
6-Feb-22	Point Count	CP	ML 2	8:11	10												
6-Feb-22	Point Count	CP	ML 3	8:25	10	RUGR	Ruffed Grouse	2	flushed	0					Bonasa umbellus	7	
6-Feb-22	Point Count	CP	ML 4	8:40	10	CORA	Common Raven	1	calling	250					Corvus corax	6	
6-Feb-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
6-Feb-22	Point Count	CP	ML 5	8:55	10												
6-Feb-22	Point Count	CP	ML 6	9:11	10												
6-Feb-22	Point Count	CP	ML 24	9:27	10												
6-Feb-22	Point Count	CP	ML 7	9:49	10	BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
6-Feb-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
6-Feb-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
6-Feb-22	Point Count	CP	ML 8	10:03	10												
6-Feb-22	Point Count	CP	ML 9	10:18	10	BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
6-Feb-22	Point Count	CP	ML 10	10:33	10	#N/A											
6-Feb-22	Point Count	CP	ML 11	10:52	10	GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
6-Feb-22	Point Count	CP	ML 12	11:11	10	CORA	Common Raven	2	calling	500					Corvus corax	6	
6-Feb-22	Point Count	CP	ML 14	11:16	10												
6-Feb-22	Point Count	CP	ML 20	11:31	10												
6-Feb-22	Point Count	CP	ML 23	11:44	10	CORA	Common Raven	2	calling	500					Corvus corax	6	
6-Feb-22	Point Count	CP				RECR	Red Crossbill	1	passing	50	Northeast		50	West	Loxia curvirostra	6	
6-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP	ML 21	8:21	10	GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
7-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
7-Feb-22	Point Count	CP				PIWO	Pileated Woodpecker	1	passing	50	South		50	West	Dryocopus pileatus	7	
7-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP	ML 22	8:50	10	RBNU	Red-breasted Nuthatch	1	calling	0	West				Sitta canadensis	6	
7-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP	MLn16	9:55	10	RBNU	Red-breasted Nuthatch	1	calling	0	Southeast				Sitta canadensis	6	
7-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	5	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
7-Feb-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
7-Feb-22	Point Count	CP	ML 15	10:19	10	BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
7-Feb-22	Point Count	CP				RUGR	Ruffed Grouse	1	flushed	0					Bonasa umbellus	7	
7-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	calling	250	Northeast				Sitta canadensis	6	
7-Feb-22	Point Count	CP	ML 19	10:51	10	HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
7-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	6	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP				CORA	Common Raven	1	calling	100					Corvus corax	6	
7-Feb-22	Point Count	CP					Woodpecker Species	1	drumming	100							
7-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0	West				Sitta canadensis	6	
7-Feb-22	Point Count	CP	ML 18	11:25	10	GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
7-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0	North				Sitta canadensis	6	
7-Feb-22	Point Count	CP	ML 13	13:11	10	BCCH	Black-capped Chickadee	6	calling	0					Poecile atricapilla	6	
7-Feb-22	Point Count	CP				WWCR	White-winged Crossbill	3	calling	0					Loxia leucoptera	6	
7-Feb-22	Point Count	CP				BOCH	Boreal Chickadee	1	singing	0	Northwest				Poecile hudsonica	6	
7-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	3	calling	0	Southwest				Sitta canadensis	6	
7-Feb-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	100					Dryocopus pileatus	7	
20-Feb-22	Point Count	CP	ML 1	7:46	10	RECR	Red Crossbill	1				Yes			Loxia curvirostra	6	
20-Feb-22	Point Count	CP				AMRO	American Robin	1							Turdus migratorius	6	
20-Feb-22	Point Count	CP	ML 2	8:01	10	RECR	Red Crossbill	1	calling	0	Southwest				Loxia curvirostra	6	
20-Feb-22	Point Count	CP	ML 3	8:15	10												
20-Feb-22	Point Count	CP	ML 4	8:30	10	CORA	Common Raven	1	calling	100					Corvus corax	6	
20-Feb-22	Point Count	CP	ML 5	8:47	10												
20-Feb-22	Point Count	CP	ML 6	9:01	10												
20-Feb-22	Point Count	CP	ML 24	9:17	10												
20-Feb-22	Point Count	CP	ML 7	9:35	10												
20-Feb-22	Point Count	CP	ML 8	9:50	10												
20-Feb-22	Point Count	CP	ML 9	10:04	10												
20-Feb-22	Point Count	CP	ML 10	10:28	10												
20-Feb-22	Point Count	CP	ML 11	10:46	10	CORA	Common Raven	1	calling	250					Corvus corax	6	
20-Feb-22	Point Count	CP	ML 12	11:02	10	CORA	Common Raven	1	calling	500					Corvus corax	6	
20-Feb-22	Point Count	CP	ML 13	11:23	10												
21-Feb-22	Point Count	CP	ML 14	7:50	10	BCCH	Black-capped Chickadee	9	calling	0					Poecile atricapilla	6	
21-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	calling	0					Sitta canadensis	6	
21-Feb-22	Point Count	CP				PIWO	Pileated Woodpecker	1	drumming	250					Dryocopus pileatus	7	
21-Feb-22	Point Count	CP	ML 20	8:07	10	CORA	Common Raven	1	calling	500					Corvus corax	6	
21-Feb-22	Point Count	CP	ML 23	8:22	10	HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
21-Feb-22	Point Count	CP	ML 21	8:41	10	PUFI	Purple Finch	1	calling	100					Haemorhous purpureus	6	
21-Feb-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	100					Poecile atricapilla	6	

Table 4: Species Data - 2022 Winter Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
21-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
21-Feb-22	Point Count	CP	ML 22	8:56	10	AMCR	American Crow	1	calling	500					Corvus brachyrhynchos	6	
21-Feb-22	Point Count	CP				CORA	Common Raven	1	calling	250					Corvus corax	6	
21-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
21-Feb-22	Point Count	CP	ML 16	9:25	10												
21-Feb-22	Point Count	CP	ML 15	9:47	10												
21-Feb-22	Point Count	CP	ML 17	10:08	10												
21-Feb-22	Point Count	CP	ML 18	10:31	10	BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
21-Feb-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	calling	0					Sitta canadensis	6	
21-Feb-22	Point Count	CP	ML 19	11:02	10	BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
21-Feb-22	Point Count	CP				PISI	Pine Siskin	1	passing	0	North		50+	South	Spinus pinus	6	
21-Feb-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	100					Regulus satrapa	6	
17-Mar-22	Point Count	CP	ML 1	7:42	10	CORA	Common Raven	2	calling	100					Corvus corax	6	
17-Mar-22	Point Count	CP				RECR	Red Crossbill	1	passing	50	Southwest		50	East	Loxia curvirostra	6	
17-Mar-22	Point Count	CP	ML 2	7:58	10	BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
17-Mar-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
17-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
17-Mar-22	Point Count	CP				AMCR	American Crow	1	calling	500					Corvus brachyrhynchos	6	
17-Mar-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	100			50	East	Dryocopus pileatus	7	
17-Mar-22	Point Count	CP	ML 3	8:14	10							50	East				
17-Mar-22	Point Count	CP	ML 4	8:30	10	HAWO	Hairy Woodpecker	2	calling	0					Dryobates villosus	7	
17-Mar-22	Point Count	CP	ML 5	8:47	10												
17-Mar-22	Point Count	CP	ML 6	9:01	10	CORA	Common Raven	1	calling	0					Corvus corax	6	
17-Mar-22	Point Count	CP	ML 24	9:18	10	BCCH	Black-capped Chickadee	2	calling	100					Poecile atricapilla	6	
17-Mar-22	Point Count	CP	ML 7	9:35	10	WWCR	White-winged Crossbill	16	passing	0	North		50	South	Loxia leucoptera	6	
17-Mar-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
17-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
17-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
17-Mar-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
17-Mar-22	Point Count	CP	ML 8	9:48	10	AMRO	American Robin	1	calling	50					Turdus migratorius	6	
17-Mar-22	Point Count	CP				RTHA	Red-tailed Hawk	1	passing	250	North		50	West	Buteo jamaicensis	4	
17-Mar-22	Point Count	CP				CORA	Common Raven	1	passing	250	North		50	West	Corvus corax	6	Following Red-tailed Hawk
17-Mar-22	Point Count	CP	ML 9	10:01	10	BRCR	Brown Creeper	1	singing	50					Certhia americana	6	
17-Mar-22	Point Count	CP	ML 10	10:17	10	AMRO	American Robin	1	passing	50	Northeast		50	West	Turdus migratorius	6	
17-Mar-22	Point Count	CP	ML 11	10:35	10												
17-Mar-22	Point Count	CP	ML 12	10:50	10	AMCR	American Crow	1	calling	500					Corvus brachyrhynchos	6	
17-Mar-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	250					Dryocopus pileatus	7	
17-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	109					Poecile atricapilla	6	
17-Mar-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
17-Mar-22	Point Count	CP				BDOW	Barred Owl	2	singing	500	Southwest				Strix varia	5	
17-Mar-22	Point Count	CP	ML 16	11:06	10	RECR	Red Crossbill	1	passing	50	North		50	West	Loxia curvirostra	6	
17-Mar-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	South				Perisoreus canadensis	6	
17-Mar-22	Point Count	CP	ML 14	11:20	10	BCCH	Black-capped Chickadee	2	singing	0					Poecile atricapilla	6	
17-Mar-22	Point Count	CP				SOSP	Song Sparrow	1	singing	50					Melospiza melodia	6	
17-Mar-22	Point Count	CP	ML 13	11:44	10	RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
17-Mar-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
18-Mar-22	Point Count	CP	ML 20	7:47	10	DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
18-Mar-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
18-Mar-22	Point Count	CP				PISI	Pine Siskin	2	passing	0	East		50	West	Spinus pinus	6	
18-Mar-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
18-Mar-22	Point Count	CP				CAGO	Canada Goose	1	calling	500					Branta canadensis	1	
18-Mar-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
18-Mar-22	Point Count	CP	ML 24	8:07	10	BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
18-Mar-22	Point Count	CP				BLJA	Blue Jay	2	calling	0					Cyanocitta cristata	6	
18-Mar-22	Point Count	CP				CORA	Common Raven	2	calling	0					Corvus corax	6	
18-Mar-22	Point Count	CP				RECR	Red Crossbill	2	passing	50	Northwest		50	Southeast	Loxia curvirostra	6	
18-Mar-22	Point Count	CP	ML 21	8:25	10	CAJA	Canada Jay	2	calling	0	South				Perisoreus canadensis	6	
18-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	4	singing	0					Poecile atricapilla	6	
18-Mar-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
18-Mar-22	Point Count	CP				PUFI	Purple Finch	1	passing	50			50+	Southeast	Haemorhous purpureus	6	
18-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
18-Mar-22	Point Count	CP	ML 22	8:39	10	PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
18-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	3	singing	0					Poecile atricapilla	6	
18-Mar-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
18-Mar-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	50					Dryobates villosus	7	
18-Mar-22	Point Count	CP	ML 15	9:19	10	BOCH	Boreal Chickadee	1	calling	0	Northeast				Poecile hudsonica	6	
18-Mar-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	0					Dryocopus pileatus	7	
18-Mar-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	

Table 4: Species Data - 2022 Winter Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
18-Mar-22	Point Count	CP				CAJA	Canada Jay	2	calling	0	East				Perisoreus canadensis	6	
18-Mar-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	50					Junco hyemalis	6	
18-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
18-Mar-22	Point Count	CP				SPGR	Spruce Grouse	1	displaying	0					Canachites canadensis	7	
18-Mar-22	Point Count	CP	ML 17	9:40	10	DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
18-Mar-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
18-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
18-Mar-22	Point Count	CP	ML 18	10:04	10	CORA	Common Raven	2	calling	100					Corvus corax	6	
18-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
18-Mar-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
18-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
18-Mar-22	Point Count	CP	ML 19	10:29	10	DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
18-Mar-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
18-Mar-22	Point Count	CP				AMCR	American Crow	1	calling	500					Corvus brachyrhynchos	6	
18-Mar-22	Point Count	CP				CORA	Common Raven	2	calling	100					Corvus corax	6	
18-Mar-22	Point Count	CP				PIWO	Pileated Woodpecker	4	calling	0					Dryocopus pileatus	7	
18-Mar-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
18-Mar-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	250					Sitta canadensis	6	
18-Mar-22	Point Count	CP				NOSH	Northern Shrike	1				Yes			Lanius borealis	6	
18-Mar-22	Point Count	CP				RECR	Red Crossbill	9				Yes			Loxia curvirostra	6	
18-Mar-22	Point Count	CP				WWCR	White-winged Crossbill	1	singing			Yes			Loxia leucoptera	6	

Table 5: Species Summary - 2022 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Black Duck	Anas rubripes	1	Not Listed	Not Listed	Not Listed	S5B,S5N	4
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	9
American Goldfinch	Spinus tristis	6	Not Listed	Not Listed	Not Listed	S5	13
American Redstart	Setophaga ruticilla	6	Not Listed	Not Listed	Not Listed	S5B	3
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	54
Black-and-white Warbler	Mniotilta varia	6	Not Listed	Not Listed	Not Listed	S5B	25
Black-capped Chickadee	Poecile atricapilla	6	Not Listed	Not Listed	Not Listed	S5	50
Belted Kingfisher	Megaceryle alcyon	3	Not Listed	Not Listed	Not Listed	S4S5B	2
Blue-headed Vireo	Vireo solitarius	6	Not Listed	Not Listed	Not Listed	S5B	21
Blackburnian Warbler	Setophaga fusca	6	Not Listed	Not Listed	Not Listed	S4B,S5M	4
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	23
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	S3	6
Brown Creeper	Certhia americana	6	Not Listed	Not Listed	Not Listed	S5	4
Black-throated Blue Warbler	Setophaga caerulescens	6	Not Listed	Not Listed	Not Listed	S5	3
Black-throated Green Warbler	Setophaga virens	6	Not Listed	Not Listed	Not Listed	S5	40
Bufflehead	Bucephala albeola	1	Not Listed	Not Listed	Not Listed	S4N, SUM	5
Canada Goose	Branta canadensis	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	12
Canada Warbler	Cardellina canadensis	6	Threatened	Special Concern	Endangered	S3B	2
Cape May Warbler	Setophaga tigrina	6	Not Listed	Not Listed	Not Listed	S3B,SUM	3
Common Grackle	Quiscalus quiscula	6	Not Listed	Not Listed	Not Listed	S5B	3
Common Loon	Gavia immer	3	Not Listed	Not at Risk	Not Listed	S4B	3
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	7
Common Yellowthroat	Geothlypis trichas	6	Not Listed	Not Listed	Not Listed	S5B	15
Dark-eyed Junco	Junco hyemalis	6	Not Listed	Not Listed	Not Listed	S4S5	52
Downy Woodpecker	Dryobates pubescens	7	Not Listed	Not Listed	Not Listed	S5	1
Golden-crowned Kinglet	Regulus satrapa	6	Not Listed	Not Listed	Not Listed	S5	19
Canada Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	0
Grey Catbird	Dumetella carolinensis	6	Not Listed	Not Listed	Not Listed	S4B	0
Hairy Woodpecker	Dryobates villosus	7	Not Listed	Not Listed	Not Listed	S5	7
Hermit Thrush	Catharus guttatus	6	Not Listed	Not Listed	Not Listed	S5B	32
Least Flycatcher	Empidonax minimus	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	2
Magnolia Warbler	Setophaga magnolia	6	Not Listed	Not Listed	Not Listed	S5B	21
Mourning Dove	Zenaidura macroura	7	Not Listed	Not Listed	Not Listed	S5	4
Northern Flicker	Colaptes auratus	7	Not Listed	Not Listed	Not Listed	S5B	14
Northern Parula	Setophaga americana	6	Not Listed	Not Listed	Not Listed	S5B	3
Olive-sided Flycatcher	Contopus cooperi	6	Special Concern	Special Concern	Threatened	S3B	2
Ovenbird	Seiurus aurocapilla	6	Not Listed	Not Listed	Not Listed	S5B	10
Palm Warbler	Setophaga palmarum	6	Not Listed	Not Listed	Not Listed	S5B	44
Pine Siskin	Spinus pinus	6	Not Listed	Not Listed	Not Listed	S3	1
Pileated Woodpecker	Dryocopus pileatus	7	Not Listed	Not Listed	Not Listed	S5	2
Purple Finch	Haemorhous purpureus	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	46
Red-breasted Nuthatch	Sitta canadensis	6	Not Listed	Not Listed	Not Listed	S4S5	15
Ruby-crowned Kinglet	Corthylio calendula	6	Not Listed	Not Listed	Not Listed	S4B,S5M	8
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3S4	20
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	1
Ruffed Grouse	Bonasa umbellus	7	Not Listed	Not Listed	Not Listed	S5	13
Song Sparrow	Melospiza melodia	6	Not Listed	Not Listed	Not Listed	S5B	6
Spruce Grouse	Canachites canadensis	7	Not Listed	Not Listed	Not Listed	S4	2
Swamp Sparrow	Melospiza georgiana	6	Not Listed	Not Listed	Not Listed	S5B	3

**Table 5: Species Summary - 2022 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Swainson's Thrush	Catharus ustulatus	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Winter Wren	Troglodytes hiemalis	6	Not Listed	Not Listed	Not Listed	S5B	38
White-throated Sparrow	Zonotrichia albicollis	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	56
White-winged Crossbill	Loxia leucoptera	6	Not Listed	Not Listed	Not Listed	S4S5	3
Yellow-rumped Warbler	Setophaga coronata	6	Not Listed	Not Listed	Not Listed	S5B	51
Woodpecker Species		7					7
Small Duck Species		1					1

Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
6-Apr-22	Point Count	CP	ML 1	6:46	10	WIWR	Winter Wren	1	singing	50					Troglodytes hiemalis	6	
6-Apr-22	Point Count	CP				AMGO	American Goldfinch	2	calling	50					Spinus tristis	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	250					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP	ML 2	7:01	10	CAJA	Canada Jay	1	calling	0	Northeast				Perisoreus canadensis	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
6-Apr-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
6-Apr-22	Point Count	CP	ML 3	7:17	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				CAGO	Canada Goose	2	calling	500					Branta canadensis	1	
6-Apr-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
6-Apr-22	Point Count	CP				AMCR	American Crow	1	calling	100					Corvus brachyrhynchos	6	
6-Apr-22	Point Count	CP	ML 4	7:32	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				AMCR	American Crow	1	calling	100					Corvus brachyrhynchos	6	
6-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	2	calling	50					Turdus migratorius	6	
6-Apr-22	Point Count	CP	ML 5	7:46	10	DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
6-Apr-22	Point Count	CP				HAWO	Hairy Woodpecker	1	foraging	0					Dryobates villosus	7	
6-Apr-22	Point Count	CP					Woodpecker Species	1	drumming	100							
6-Apr-22	Point Count	CP				PUFI	Purple Finch	2	singing	50					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
6-Apr-22	Point Count	CP	ML 6	8:01	10	DEJU	Dark-eyed Junco	2	singing	50					Junco hyemalis	6	
6-Apr-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	2	singing	50					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	2	passing	0	East		50	West	Turdus migratorius	6	
6-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	50					Poecile atricapilla	6	
6-Apr-22	Point Count	CP	ML 24	8:15	10	AMRO	American Robin	1	calling	0					Turdus migratorius	6	
6-Apr-22	Point Count	CP				CAGO	Canada Goose	1	calling	500					Branta canadensis	1	
6-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				RECR	Red Crossbill	2	passing	50	Southwest		50	Northeast	Loxia curvirostra	6	
6-Apr-22	Point Count	CP	ML 7	8:34	10	AMRO	American Robin	2	calling	0					Turdus migratorius	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	100					Junco hyemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	passing	0	West		50	East	Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
6-Apr-22	Point Count	CP	ML 8	8:48	10	BRCR	Brown Creeper	1	singing	0					Certhia americana	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP	ML 9	9:02	10	BCCH	Black-capped Chickadee	3	singing	0					Poecile atricapilla	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	0					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	East				Perisoreus canadensis	6	
6-Apr-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
6-Apr-22	Point Count	CP	ML 10	9:16	10	CAGO	Canada Goose	2	calling	500					Branta canadensis	1	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP	ML 11	9:31	10	DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
6-Apr-22	Point Count	CP				PUFI	Purple Finch	2	calling	0					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				CORA	Common Raven	1	calling	250					Corvus corax	6	
6-Apr-22	Point Count	CP				AMCR	American Crow	1	calling	100					Corvus brachyrhynchos	6	
6-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	50					Poecile atricapilla	6	
6-Apr-22	Point Count	CP					Woodpecker Species	1	drumming	100							
6-Apr-22	Point Count	CP				DOWO	Downy Woodpecker	1	foraging	0					Dryobates pubescens	7	
6-Apr-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
6-Apr-22	Point Count	CP	ML 12	9:48	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	1	calling	250					Turdus migratorius	6	
6-Apr-22	Point Count	CP				CORA	Common Raven	1	calling	1000					Corvus corax	6	
6-Apr-22	Point Count	CP	ML 13	10:19	10	BCCH	Black-capped Chickadee	3	singing	0					Poecile atricapilla	6	
6-Apr-22	Point Count	CP				AMRO	American Robin	9	calling	0					Turdus migratorius	6	
6-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
6-Apr-22	Point Count	CP					Woodpecker Species	1	drumming	250							
6-Apr-22	Point Count	CP				PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
6-Apr-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
6-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
6-Apr-22	Point Count	CP				CAJA	Canada Jay	1	passing	0	West				Perisoreus canadensis	6	
7-Apr-22	Point Count	CP	ML 14	6:58	10	PUFI	Purple Finch	2	singing	50					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	500					Junco hyemalis	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	250					Sitta canadensis	6	
7-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
7-Apr-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
7-Apr-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
7-Apr-22	Point Count	CP					Woodpecker Species	1	drumming	100							
7-Apr-22	Point Count	CP				AMCR	American Crow	2	calling	250					Corvus brachyrhynchos	6	
7-Apr-22	Point Count	CP	ML 16	7:12	10	PIWO	Pileated Woodpecker	1	drumming	250					Dryocopus pileatus	7	
7-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	0					Poecile atricapilla	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
7-Apr-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	



Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
7-Apr-22	Point Count	CP				COGR	Common Grackle	2	passing	100	Southeast		50	Northwest	Quiscalus quiscula	6	
7-Apr-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
7-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				SPGR	Spruce Grouse	1	displaying	0					Canachites canadensis	7	
7-Apr-22	Point Count	CP				ABDU	American Black Duck	2	passing	100	Northeast		50+	West	Anas rubripes	1	
7-Apr-22	Point Count	CP	ML 15	7:28	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
7-Apr-22	Point Count	CP				AMRO	American Robin	1	calling	100			50	East	Turdus migratorius	6	
7-Apr-22	Point Count	CP				PUFI	Purple Finch	1	passing	50	Northwest		50	South	Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				AMCR	American Crow	2	calling	0					Corvus brachyrhynchos	6	
7-Apr-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	50					Bonasa umbellus	7	
7-Apr-22	Point Count	CP	ML 17	7:42	10	SOSP	Song Sparrow	1	singing	0					Melospiza melodia	6	
7-Apr-22	Point Count	CP				PUFI	Purple Finch	2	calling	100					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
7-Apr-22	Point Count	CP				RECR	Red Crossbill	4	passing	0	South		50	North	Loxia curvirostra	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
7-Apr-22	Point Count	CP	ML 18	8:01	10	DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	singing	50					Sitta canadensis	6	
7-Apr-22	Point Count	CP				RUGR	Ruffed Grouse	1	flushed	0					Bonasa umbellus	7	
7-Apr-22	Point Count	CP	ML 19	8:24	10	DEJU	Dark-eyed Junco	1	singing	100					Junco hyemalis	6	
7-Apr-22	Point Count	CP				HAWO	Hairy Woodpecker	1	passing	100					Dryobates villosus	7	
7-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
7-Apr-22	Point Count	CP				RECR	Red Crossbill	1	calling	50	West				Loxia curvirostra	6	
7-Apr-22	Point Count	CP				SPGR	Spruce Grouse	1	displaying	100					Canachites canadensis	7	100 metres north of waypoint
7-Apr-22	Point Count	CP	ML 21	9:10	10	RECR	Red Crossbill	1	calling	100					Loxia curvirostra	6	
7-Apr-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
7-Apr-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
7-Apr-22	Point Count	CP	ML 22	9:24	10	DEJU	Dark-eyed Junco	2	singing	500					Junco hyemalis	6	
7-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	2	passing	50					Poecile atricapilla	6	
7-Apr-22	Point Count	CP				PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	singing	0					Sitta canadensis	6	
7-Apr-22	Point Count	CP	ML 20	9:53	10	WWCR	White-winged Crossbill	1	passing	50	Northeast		50	South	Loxia leucoptera	6	
7-Apr-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
7-Apr-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
7-Apr-22	Point Count	CP				WIWR	Winter Wren	1	singing			Yes			Troglodytes hiemalis	6	heard at hawk watch point 250 metres to the south
7-Apr-22	Point Count	CP				PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP	ML 23	10:09	10	PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
7-Apr-22	Point Count	CP				AMRO	American Robin	1	singing	50					Turdus migratorius	6	
1-May-22	Point Count	CP	ML 1	6:11	10	PAWA	Palm Warbler	2	singing	50					Setophaga palmarum	6	
1-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	Southeast				Corthylio calendula	6	
1-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP	ML 2	6:29	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
1-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	0					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
1-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
1-May-22	Point Count	CP				AMRO	American Robin	2	calling	100					Turdus migratorius	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP	ML 3	6:44	10	YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	2	singing	100					Haemorhous purpureus	6	
1-May-22	Point Count	CP				BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	2	calling	0					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP	ML 4	7:00	10	BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	50					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	2	singing	0					Haemorhous purpureus	6	
1-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	Southeast				Corthylio calendula	6	
1-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
1-May-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
1-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
1-May-22	Point Count	CP	ML 5	7:14	10	YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	1	calling	100					Haemorhous purpureus	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
1-May-22	Point Count	CP	ML 6	7:26	10	PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
1-May-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
1-May-22	Point Count	CP	ML 24	7:41	10	BEKI	Belted Kingfisher	1	calling	100					Megasceryle alcyon	3	
1-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
1-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	100					Setophaga palmarum	6	

Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
1-May-22	Point Count	CP				SOSP	Song Sparrow	1	calling	0					Melospiza melodia	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
1-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
1-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
1-May-22	Point Count	CP	ML 7	8:00	10	PUFI	Purple Finch	1	singing	0					Haemorhous purpureus	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP	ML 8	8:13	10	WIWR	Winter Wren	1	calling	0					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
1-May-22	Point Count	CP				HETH	Hermit Thrush	2	calling	0					Catharus guttatus	6	
1-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
1-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	50			50	South	Colaptes auratus	7	
1-May-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	0					Poecile hudsonica	6	
1-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	50					Cyanocitta cristata	6	
1-May-22	Point Count	CP				RECR	Red Crossbill	7	passing	0	West		50	East	Loxia curvirostra	6	
1-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	Southwest				Corthylio calendula	6	
1-May-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
1-May-22	Point Count	CP	ML 9	8:26	10	WTSP	White-throated Sparrow	1	singing	0					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
1-May-22	Point Count	CP				RUGR	Ruffed Grouse	2	singing	0					Bonasa umbellus	7	
1-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
1-May-22	Point Count	CP				CORA	Common Raven	1	calling	0					Corvus corax	6	
1-May-22	Point Count	CP				MODO	Mourning Dove	1	calling	0					Zenaida macroura	7	
1-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
1-May-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
1-May-22	Point Count	CP	ML 10	8:41	10	PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
1-May-22	Point Count	CP				WIWR	Winter Wren	2	singing	50					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				BRCR	Brown Creeper	1	singing	50					Certhia americana	6	
1-May-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	50	North				Poecile hudsonica	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
1-May-22	Point Count	CP	ML 11	9:00	10	WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
1-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
1-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	calling	0					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
1-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	0					Haemorhous purpureus	6	
1-May-22	Point Count	CP	ML 12	9:14	10	BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
1-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
1-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	50	Northwest				Corthylio calendula	6	
1-May-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
1-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	50					Colaptes auratus	7	
1-May-22	Point Count	CP	ML 13	9:35	10	PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
1-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	50					Colaptes auratus	7	
1-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
1-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	100					Zonotrichia albicollis	6	
1-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
1-May-22	Point Count	CP				AMRO	American Robin	2	calling	0					Turdus migratorius	6	
7-May-22	Point Count	CP	ML 23	6:20	10	BCCH	Black-capped Chickadee	1	calling	0	East				Poecile atricapilla	6	
7-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	2	singing	100	West				Corthylio calendula	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	50					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	2	calling	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
7-May-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaida macroura	7	
7-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
7-May-22	Point Count	CP				CAGO	Canada Goose	2	calling	250					Branta canadensis	1	
7-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
7-May-22	Point Count	CP	ML 20	6:34	10	BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	0					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	1	calling	100					Haemorhous purpureus	6	
7-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
7-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
7-May-22	Point Count	CP	ML 21	6:54	10	PAWA	Palm Warbler	3	singing	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	calling	50					Sitta canadensis	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				CAGO	Canada Goose	2	calling	100					Branta canadensis	1	
7-May-22	Point Count	CP	ML 22	7:08	10	WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	50					Junco hyemalis	6	
7-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	calling	0					Bonasa umbellus	7	
7-May-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	



Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
7-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
7-May-22	Point Count	CP				WIWR	Winter Wren	2	singing	0					Troglodytes hiemalis	6	
7-May-22	Point Count	CP	ML 14	7:29	10	PAWA	Palm Warbler	3	singing	100					Setophaga palmarum	6	
7-May-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	0					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	2	calling	0					Haemorhous purpureus	6	
7-May-22	Point Count	CP					Woodpecker Species	1	calling	100							
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
7-May-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
7-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	100					Poecile atricapilla	6	
7-May-22	Point Count	CP				COGR	Common Grackle	1	calling	100					Quiscalus quiscula	6	
7-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
7-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
7-May-22	Point Count	CP	ML 16	7:47	10	BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
7-May-22	Point Count	CP				SOSP	Song Sparrow	1	singing	50					Melospiza melodia	6	
7-May-22	Point Count	CP				WIWR	Winter Wren	2	singing	100					Troglodytes hiemalis	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	4	singing	50					Setophaga coronata	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				BUFF	Buffehead	5	on water	250					Bucephala albeola	1	2 males, 3 females
7-May-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
7-May-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
7-May-22	Point Count	CP					Woodpecker Species	1	drumming	100							
7-May-22	Point Count	CP	ML 15	8:06	10	WTSP	White-throated Sparrow	3	singing	100					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	1	calling	100					Haemorhous purpureus	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
7-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	50					Cyanocitta cristata	6	
7-May-22	Point Count	CP				AMRO	American Robin	1	singing	0					Turdus migratorius	6	
7-May-22	Point Count	CP	ML 17	8:22	10	YRWA	Yellow-rumped Warbler	3	singing	0					Setophaga coronata	6	
7-May-22	Point Count	CP				CAGO	Canada Goose	1	on water	50					Branta canadensis	1	behaving like there is a nest nearby
7-May-22	Point Count	CP				ABDU	American Black Duck	1	calling	100					Anas rubripes	1	
7-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100	North				Sitta canadensis	6	
7-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	100					Poecile atricapilla	6	
7-May-22	Point Count	CP	ML 18	8:43	10	WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
7-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
7-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
7-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-May-22	Point Count	CP	ML 19	9:09	10	RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
7-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0	Northeast				Sitta canadensis	6	
7-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	100					Poecile atricapilla	6	
7-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	50					Setophaga palmarum	6	
7-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
16-May-22	Point Count	CP	ML 1	5:56	10	BHVI	Blue-headed Vireo	2	singing	0					Vireo solitarius	6	
16-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				AMRO	American Robin	2	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	0					Catharus guttatus	6	
16-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	North				Corthylio calendula	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
16-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
16-May-22	Point Count	CP				AMCR	American Crow	2	calling	500					Corvus brachyrhynchos	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
16-May-22	Point Count	CP	ML 2	6:09	10	BHVI	Blue-headed Vireo	1	singing	0					Vireo solitarius	6	
16-May-22	Point Count	CP				AMGO	American Goldfinch	2	calling	0					Spinus tristis	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				AMRO	American Robin	1	singing	0					Turdus migratorius	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	0	Northeast				Cyanocitta cristata	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
16-May-22	Point Count	CP				MODO	Mourning Dove	1	singing	0					Zenaidura macroura	7	
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
16-May-22	Point Count	CP				CORA	Common Raven	1	calling	100					Corvus corax	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	100					Junco hyemalis	6	
16-May-22	Point Count	CP	ML 3	6:25	10	YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	0					Vireo solitarius	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	calling	100					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				BLBW	Blackburnian Warbler	1	calling	0					Setophaga fusca	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	250					Setophaga virens	6	
16-May-22	Point Count	CP				GRCA	Grey Catbird	1	calling	50	North				Dumetella carolinensis	6	
16-May-22	Point Count	CP				NOPA	Northern Parula	1	singing	0					Setophaga americana	6	
16-May-22	Point Count	CP				COLO	Common Loon	1	calling	500	West				Gavia immer	3	
16-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	100					Setophaga palmarum	6	
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	

Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
16-May-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
16-May-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	100					Dryocopus pileatus	7	
16-May-22	Point Count	CP				CAGO	Canada Goose	1	calling	500					Branta canadensis	1	
16-May-22	Point Count	CP	ML 4	6:38	10	YRWA	Yellow-rumped Warbler	2	singing	50					Setophaga coronata	6	
16-May-22	Point Count	CP				RECR	Red Crossbill	3	calling	50	East				Loxia curvirostra	6	
16-May-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	2	singing	50					Vireo solitarius	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	3	singing	100					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	0					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				AMGO	American Goldfinch	2	singing	50		Yes			Spinus tristis	6	wind picking up
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	3	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	2	singing	50					Catharus guttatus	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
16-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
16-May-22	Point Count	CP					Woodpecker Species	1	drumming	250							
16-May-22	Point Count	CP				SWSP	Swamp Sparrow	1	singing	50					Melospiza georgiana	6	
16-May-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	50					Dryobates villosus	7	
16-May-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP	ML 5	6:50	10	BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	2	singing	0					Vireo solitarius	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
16-May-22	Point Count	CP	ML 6	7:02	10		Small Duck Species	1	passing			Yes					in between points
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	250					Setophaga virens	6	
16-May-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
16-May-22	Point Count	CP				NOPA	Northern Parula	1	singing	0					Setophaga americana	6	
16-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	0					Poecile atricapilla	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	0					Vireo solitarius	6	
16-May-22	Point Count	CP				PUFI	Purple Finch	2	calling	0					Haemorhus purpureus	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
16-May-22	Point Count	CP	ML 24	7:17	10	CMWA	Cape May Warbler	1	calling	0					Setophaga tigrina	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	2	calling	0					Vireo solitarius	6	
16-May-22	Point Count	CP				CMWA	Cape May Warbler	1	singing	0					Setophaga tigrina	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	100					Setophaga virens	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	3	singing	50					Setophaga coronata	6	
16-May-22	Point Count	CP				AMRO	American Robin	2	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	50					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaida macroura	7	
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
16-May-22	Point Count	CP				BOCH	Boreal Chickadee	2	calling	0	Southeast				Poecile hudsonica	6	
16-May-22	Point Count	CP	ML 7	7:35	10	BTNW	Black-throated Green Warbler	1	calling	100					Setophaga virens	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	2	passing	100					Cyanocitta cristata	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	3	calling	0					Junco hyemalis	6	
16-May-22	Point Count	CP				PAWA	Palm Warbler	1	drumming	0					Setophaga palmarum	6	
16-May-22	Point Count	CP				SWSP	Swamp Sparrow	1	singing	50					Melospiza georgiana	6	
16-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	calling	0					Vireo solitarius	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
16-May-22	Point Count	CP	ML 8	7:49	10	AMRO	American Robin	1	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	3	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				OVEN	Ovenbird	2	singing	50					Seiurus aurocapilla	6	
16-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100		Yes			Troglodytes hiemalis	6	
16-May-22	Point Count	CP				BRCR	Brown Creeper	1	singing	0					Certhia americana	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
16-May-22	Point Count	CP	ML 9	8:02	10	MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
16-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
16-May-22	Point Count	CP				AMRO	American Robin	3	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	50					Setophaga palmarum	6	
16-May-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
16-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhus purpureus	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP	ML 11	8:17	10	MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
16-May-22	Point Count	CP				WIWR	Winter Wren	2	singing	0					Troglodytes hiemalis	6	
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	2	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
16-May-22	Point Count	CP				AMRO	American Robin	2	calling	0					Turdus migratorius	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	0					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				OVEN	Ovenbird	1	singing	0					Seiurus aurocapilla	6	
16-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
16-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
16-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
16-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
16-May-22	Point Count	CP	ML 10	8:35	10	BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				LEFL	Least Flycatcher	2	singing	0					Empidonax minimus	6	
16-May-22	Point Count	CP				BAWW	Black-and-white Warbler	2	singing	0					Mniotilta varia	6	
16-May-22	Point Count	CP				NOPA	Northern Parula	1	singing	50					Setophaga americana	6	
16-May-22	Point Count	CP				SOSP	Song Sparrow	1	singing	50					Melospiza melodia	6	
16-May-22	Point Count	CP				ABDU	American Black Duck	1	calling	100					Anas rubripes	1	
16-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
16-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
16-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
16-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
16-May-22	Point Count	CP	ML 12	8:55	10	DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
16-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	rain starting
16-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	100					Regulus satrapa	6	
16-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	
20-May-22	Point Count	CP	ML 14	5:59	10	COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	4	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	0					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
20-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
20-May-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
20-May-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	
20-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
20-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
20-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
20-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
20-May-22	Point Count	CP	ML 20	6:21	10	MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
20-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
20-May-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
20-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	passing	100					Catharus guttatus	6	
20-May-22	Point Count	CP				PISI	Pine Siskin	1	calling	50					Spinus pinus	6	
20-May-22	Point Count	CP				CMWA	Cape May Warbler	1	singing	50	Southeast				Setophaga tigrina	6	
20-May-22	Point Count	CP				CAWA	Canada Warbler	1	singing	100	Southwest				Cardellina canadensis	6	
20-May-22	Point Count	CP				WWCR	White-winged Crossbill	2	calling	50					Loxia leucoptera	6	
20-May-22	Point Count	CP				CAJA	Canada Jay	2	calling	100	Southwest				Perisoreus canadensis	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	calling	500					Turdus migratorius	6	
20-May-22	Point Count	CP	ML 21	6:39	10	YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100					Corthylio calendula	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	3	singing	100					Catharus guttatus	6	
20-May-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
20-May-22	Point Count	CP				CAJA	Canada Jay	1	calling	100	Northwest				Perisoreus canadensis	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	3	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				BCCH	Black-capped Chickadee	2	circling	50					Poecile atricapilla	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				RECR	Red Crossbill	2	passing	50	North		50	South	Loxia curvirostra	6	
20-May-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
20-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
20-May-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
20-May-22	Point Count	CP	ML 22	7:02	10	BAWW	Black-and-white Warbler	2	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				OVEN	Ovenbird	1	singing	100					Seiurus aurocapilla	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	3	singing	0					Setophaga magnolia	6	
20-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	0					Catharus guttatus	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
20-May-22	Point Count	CP				CAGO	Canada Goose	1	calling	500					Branta canadensis	1	
20-May-22	Point Count	CP				SWTH	Swainson's Thrush	1	calling	0					Catharus ustulatus	6	
20-May-22	Point Count	CP	ML 23	7:21	10	OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
20-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
20-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
20-May-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
20-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
20-May-22	Point Count	CP	ML 15	7:43	10	BAWW	Black-and-white Warbler	2	singing	2000					Mniotilta varia	6	
20-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	1000					Setophaga coronata	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	0					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	0	East				Contopus cooperi	6	
20-May-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	100	Southeast				Contopus cooperi	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
20-May-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100	East				Sitta canadensis	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
20-May-22	Point Count	CP				COLO	Common Loon	1	on water	100	Southeast				Gavia immer	3	
20-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	
20-May-22	Point Count	CP	ML 16	8:01	10	COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				BOCH	Boreal Chickadee	2	calling	0	South				Poecile hudsonica	6	
20-May-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	100					Setophaga palmarum	6	
20-May-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
20-May-22	Point Count	CP				CAWA	Canada Warbler	1	singing	100	North				Cardellina canadensis	6	waypoint 131, singing farther north than point
20-May-22	Point Count	CP				OVEN	Ovenbird	1	singing	100					Seiurus aurocapilla	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP	ML 17	8:17	10	SWSP	Swamp Sparrow	1	calling	500					Melospiza georgiana	6	
20-May-22	Point Count	CP				COLO	Common Loon	1	calling	250					Gavia immer	3	in air circling around lake
20-May-22	Point Count	CP				COYE	Common Yellowthroat	2	passing	0					Geothlypis trichas	6	
20-May-22	Point Count	CP				SOSP	Song Sparrow	2	calling	0					Melospiza melodia	6	
20-May-22	Point Count	CP				BLJA	Blue Jay	2	calling	500					Cyanocitta cristata	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	3	calling	0					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				BTBW	Black-throated Blue Warbler	3	calling	100					Setophaga caerulescens	6	
20-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
20-May-22	Point Count	CP				AMGO	American Goldfinch	2	calling	0					Spinus tristis	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
20-May-22	Point Count	CP				BEKI	Belted Kingfisher	1	calling	50					Megaceryle alcyon	3	
20-May-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
20-May-22	Point Count	CP				RTHA	Red-tailed Hawk	1	calling	250					Buteo jamaicensis	4	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	100					Setophaga magnolia	6	
20-May-22	Point Count	CP	ML 18	8:41	10	BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
20-May-22	Point Count	CP				BCCO	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	100					Geothlypis trichas	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	3	singing	50					Setophaga magnolia	6	
20-May-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	2	singing	100					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
20-May-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0	West				Geothlypis trichas	6	
20-May-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	singing	0					Regulus satrapa	6	
20-May-22	Point Count	CP				NOFL	Northern Flicker	3	calling	0					Colaptes auratus	7	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	



Table 6: Species Data - 2022 Spring Migration Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments? Block counting (BC)?
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				AMRE	American Redstart	1	singing	100					Setophaga ruticilla	6	
20-May-22	Point Count	CP	ML 19	9:09	10	BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				AMRE	American Redstart	2	singing	0					Setophaga ruticilla	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	singing	50					Turdus migratorius	6	
20-May-22	Point Count	CP				WIWR	Winter Wren	1	singing	50					Troglodytes hiemalis	6	
20-May-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
20-May-22	Point Count	CP	ML 13	10:07	10	BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
20-May-22	Point Count	CP				OVEN	Ovenbird	2	singing	50	Northwest				Seiurus aurocapilla	6	
20-May-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0	Northeast				Setophaga magnolia	6	
20-May-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
20-May-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
20-May-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
20-May-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	100					Poecile atricapilla	6	
20-May-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
20-May-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	

**Table 7: Species Summary - 2022 Spring Migration Diurnal Count Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S -rank	Number Observed
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	1
Bald Eagle	Haliaeetus leucocephalus	4	Not Listed	Not at Risk	Not Listed	S5	16
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	S3	1
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	2
Olive-sided Flycatcher	Contopus cooperi	6	Threatened	Special Concern	Threatened	S3B	1
Pine Siskin	Carduelis pinus	6	Not Listed	Not Listed	Not Listed	S3	1
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3S4	4
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	7
Sharp-shinned Hawk	Accipiter striatus	4	Not Listed	Not at Risk	Not Listed	S5	2
Turkey Vulture	Cathartes aura	4	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	2
Winter Wren	Troglodytes troglodytes	6	Not Listed	Not Listed	Not Listed	S5B	1
Finch Species		6					2
Passerine Species		6					2
Buteo Species							1
Small Raptor Species							1
Raptor Species							4

Table 8: Species Data - 2022 Spring Migration Diurnal Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Apr-22	Diurnal Count	CP	hawk 1	10:26	30	WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	
7-Apr-22	Diurnal Count	CP				RTHA	Red-tailed Hawk	1	soaring	500	Southwest		100+		Buteo jamaicensis	4	had stick in talons, eventually dropped it
7-Apr-22	Diurnal Count	CP	hawk 1	10:56	30	RTHA	Red-tailed Hawk	1	soaring	500	West		100+		Buteo jamaicensis	4	possibly same bird as line 122
7-Apr-22	Diurnal Count	CP				BAEA	Bald Eagle	1	passing	2000	West		50+	South	Haliaeetus leucocephalus	4	
7-Apr-22	Diurnal Count	CP	hawk 1	11:26	30	AMCR	American Crow	1	passing	1000	Southwest		50	North	Corvus brachyrhynchos	6	
7-Apr-22	Diurnal Count	CP				BOCH	Boreal Chickadee	1	calling	0	East				Poecile hudsonica	6	
7-Apr-22	Diurnal Count	CP				TUVU	Turkey Vulture	1	passing	2000	Southwest		50+	West	Cathartes aura	4	
7-Apr-22	Diurnal Count	CP	hawk 1	11:56	30												
7-Apr-22	Diurnal Count	CP	hawk 1	12:26	30	RTHA	Red-tailed Hawk	1	soaring	2000	West		250+		Buteo jamaicensis	4	
7-Apr-22	Diurnal Count	CP				RTHA	Red-tailed Hawk	1	passing	1000	Southwest		50	West	Buteo jamaicensis	4	different bird than line 128
7-Apr-22	Diurnal Count	CP				CORA	Common Raven	2	passing	2000	Southwest		50+		Corvus corax	6	
7-Apr-22	Diurnal Count	CP	hawk 1	12:56	30	PISI	Pine Siskin	1	passing	0	South		50	North	Spinus pinus	6	
7-Apr-22	Diurnal Count	CP	hawk 1	13:26	30												
7-Apr-22	Diurnal Count	CP	hawk 1	13:56	30		Finch Species	2	passing	500	West		50+	South			
7-Apr-22	Diurnal Count	CP				RECR	Red Crossbill	4	passing	0	South		50	North	Loxia curvirostra	6	
7-Apr-22	Diurnal Count	CP				RTHA	Red-tailed Hawk	1	passing	2000	Southwest		50+	Northwest	Buteo jamaicensis	4	
1-May-22	Diurnal Count	CP	hawk 1	9:58	30	BAEA	Bald Eagle	1	passing	1000	Southwest		100+	East	Haliaeetus leucocephalus	4	
1-May-22	Diurnal Count	CP	hawk 1	10:28	30	SSHA	Sharp-shinned Hawk	1	passing	0	Southwest				Accipiter striatus	4	
1-May-22	Diurnal Count	CP					Passerine Species	2	passing	50	South		50	North			
1-May-22	Diurnal Count	CP				BAEA	Bald Eagle	1	passing	500	West		50+	Northwest	Haliaeetus leucocephalus	4	
1-May-22	Diurnal Count	CP				BAEA	Bald Eagle	1	soaring	1000	Southwest		100+		Haliaeetus leucocephalus	4	
7-May-22	Diurnal Count	CP	hawk 1	9:52	30												
7-May-22	Diurnal Count	CP	hawk 1	10:22	30		Buteo Species	1	soaring	2000	Southwest		50+				
7-May-22	Diurnal Count	CP				SSHA	Sharp-shinned Hawk	1	soaring	1000	Southwest		50 to 250+	North	Accipiter striatus	4	
7-May-22	Diurnal Count	CP	hawk 1	10:52	30	BAEA	Bald Eagle	2	soaring	2000	South		50+	North	Haliaeetus leucocephalus	4	
7-May-22	Diurnal Count	CP				BAEA	Bald Eagle	1	passing	1000	Southwest		50+	East	Haliaeetus leucocephalus	4	
7-May-22	Diurnal Count	CP				BAEA	Bald Eagle	4	soaring	1000	South		100 to 250+		Haliaeetus leucocephalus	4	looked like 2 pairs
7-May-22	Diurnal Count	CP	hawk 1	11:22	30		Raptor Species	2	soaring	3000	South		250+				
7-May-22	Diurnal Count	CP					Raptor Species	2	passing	50	South		250+				
7-May-22	Diurnal Count	CP	hawk 1	11:52	30	BAEA	Bald Eagle	2	soaring	3000	South		250+	West	Haliaeetus leucocephalus	4	
7-May-22	Diurnal Count	CP					Small Raptor Species	1	passing	2000	Southwest		50+	Southeast			
7-May-22	Diurnal Count	CP				TUVU	Turkey Vulture	1	soaring	2000	South		100+		Cathartes aura	4	
7-May-22	Diurnal Count	CP	hawk 1	12:22	30	BAEA	Bald Eagle	2	passing	500	South		100+	North	Haliaeetus leucocephalus	4	
7-May-22	Diurnal Count	CP				BAEA	Bald Eagle	1	passing	2000	Southwest		100+	East	Haliaeetus leucocephalus	4	
20-May-22	Diurnal Count	CP	hawk 1	10:46	30												
20-May-22	Diurnal Count	CP	hawk 1	11:16	30												
20-May-22	Diurnal Count	CP	hawk 1	11:46	30												
20-May-22	Diurnal Count	CP	hawk 1	12:16	30												
20-May-22	Diurnal Count	CP	hawk 1	12:46	30												
20-May-22	Diurnal Count	CP	hawk 1	13:16	30	RTHA	Red-tailed Hawk	2	hunting	1000	Southwest		50 to 100+		Buteo jamaicensis	4	
20-May-22	Diurnal Count	CP	hawk 1	13:46	30												
20-May-22	Diurnal Count	CP	hawk 1	14:16	30	OSFL	Olive-sided Flycatcher	1	singing	250	West				Contopus cooperi	6	

Table 9: Species Summary - 2022 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed	Breeding Evidence
Alder Flycatcher	Empidonax alnorum	6	Not Listed	Not Listed	Not Listed	S5B	12	
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	2	
American Goldfinch	Spinus tristis	6	Not Listed	Not Listed	Not Listed	S5	5	
American Redstart	Setophaga ruticilla	6	Not Listed	Not Listed	Not Listed	S5B	22	
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	23	
Bald Eagle	Haliaeetus leucocephalus	4	Not Listed	Not at Risk	Not Listed	S5	1	
Black-and-white Warbler	Mniotilta varia	6	Not Listed	Not Listed	Not Listed	S5B	27	
Bay-breasted Warbler	Setophaga castanea	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	11	
Black-capped Chickadee	Poecile atricapilla	6	Not Listed	Not Listed	Not Listed	S5	28	
Belted Kingfisher	Megasceryle alcyon	3	Not Listed	Not Listed	Not Listed	S4S5B	2	probable nest site. agitated near hole in sandy bank
Blue-headed Vireo	Vireo solitarius	6	Not Listed	Not Listed	Not Listed	S5B	21	
Blackburnian Warbler	Setophaga fusca	6	Not Listed	Not Listed	Not Listed	S4B,S5M	27	A) flightless young B) silently foraging pair
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	7	
Blackpoll Warbler	Setophaga striata	6	Not Listed	Not Listed	Not Listed	S3B,S5M	5	
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	S3	4	
Brown Creeper	Certhia americana	6	Not Listed	Not Listed	Not Listed	S5	1	
Black-throated Blue Warbler	Setophaga caerulescens	6	Not Listed	Not Listed	Not Listed	S5	10	
Black-throated Green Warbler	Setophaga virens	6	Not Listed	Not Listed	Not Listed	S5	78	
Canada Warbler	Cardellina canadensis	6	Threatened	Special Concern	Endangered	S3B	3	
Cedar Waxwing	Bombcilla cedrorum	6	Not Listed	Not Listed	Not Listed	S5B	8	
Common Grackle	Quiscalus quiscula	6	Not Listed	Not Listed	Not Listed	S5B	4	
Common Loon	Gavia immer	3	Not Listed	Not at Risk	Not Listed	S4B	3	
Common Nighthawk	Chordeiles minor	6	Special Concern	Special Concern	Threatened	S3B	2	
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	5	
Common Yellowthroat	Geothlypis trichas	6	Not Listed	Not Listed	Not Listed	S5B	55	flightless young
Chestnut-sided Warbler	Setophaga pensylvanica	6	Not Listed	Not Listed	Not Listed	S5B	3	
Dark-eyed Junco	Junco hyemalis	6	Not Listed	Not Listed	Not Listed	S4S5	33	A) agitated pair, nest likely nearby B) Probable nesting
Eastern Wood-Pewee	Contopus virens	6	Special Concern	Special Concern	Vulnerable	S3S4B	1	
Golden-crowned Kinglet	Regulus satrapa	6	Not Listed	Not Listed	Not Listed	S5	23	
Canada Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	13	
Hairy Woodpecker	Dryobates villosus	7	Not Listed	Not Listed	Not Listed	S5	8	nest with young, breeding confirmed
Hermit Thrush	Catharus guttatus	6	Not Listed	Not Listed	Not Listed	S5B	54	carrying food, confirmed breeding
Least Flycatcher	Empidonax minimus	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	3	
Magnolia Warbler	Setophaga magnolia	6	Not Listed	Not Listed	Not Listed	S5B	54	
Mourning Dove	Zenaidura macroura	7	Not Listed	Not Listed	Not Listed	S5	9	
Nashville Warbler	Leiostyris alpestris	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1	
Northern Flicker	Colaptes auratus	7	Not Listed	Not Listed	Not Listed	S5B	15	occupied nest, confirmed breeding
Northern Parula	Setophaga americana	6	Not Listed	Not Listed	Not Listed	S5B	11	
Northern Waterthrush	Parkesia noveboracensis	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1	
Olive-sided Flycatcher	Contopus cooperi	6	Special Concern	Special Concern	Threatened	S3B	10	
Ovenbird	Seiurus aurocapilla	6	Not Listed	Not Listed	Not Listed	S5B	13	
Palm Warbler	Setophaga palmarum	6	Not Listed	Not Listed	Not Listed	S5B	38	
Pine Siskin	Spinus pinus	6	Not Listed	Not Listed	Not Listed	S3	2	
Pileated Woodpecker	Dryocopus pileatus	7	Not Listed	Not Listed	Not Listed	S5	3	
Purple Finch	Haemorhous purpureus	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	12	
Red-breasted Nuthatch	Sitta canadensis	6	Not Listed	Not Listed	Not Listed	S4S5	10	
Ruby-crowned Kinglet	Corthylio calendula	6	Not Listed	Not Listed	Not Listed	S4B,S5M	6	
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3S4	5	
Red-eyed Vireo	Vireo olivaceus	6	Not Listed	Not Listed	Not Listed	S5B	27	
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	1	
Ruby-throated Hummingbird	Archilochus colubris	6	Not Listed	Not Listed	Not Listed	S5B	3	
Ruffed Grouse	Bonasa umbellus	7	Not Listed	Not Listed	Not Listed	S5	7	
Song Sparrow	Melospiza melodia	6	Not Listed	Not Listed	Not Listed	S5B	6	A) probable nest nearby B) carrying food, confirmed nesting
Swamp Sparrow	Melospiza georgiana	6	Not Listed	Not Listed	Not Listed	S5B	2	



Table 9: Species Summary - 2022 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed	Breeding Evidence
Swainson's Thrush	Catharus ustulatus	6	Not Listed	Not Listed	Not Listed	S4B,S5M	35	
Winter Wren	Troglodytes hiemalis	6	Not Listed	Not Listed	Not Listed	S5B	32	adult with young
Wood Duck	Aix sponsa	1	Not Listed	Not Listed	Not Listed	S5B	6	
White-throated Sparrow	Zonotrichia albicollis	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	56	
White-winged Crossbill	Loxia leucoptera	6	Not Listed	Not Listed	Not Listed	S4S5	1	
Yellow-bellied Flycatcher	Empidonax flaviventris	6	Not Listed	Not Listed	Not Listed	S4B,S5M	14	
Yellow-rumped Warbler	Setophaga coronata	6	Not Listed	Not Listed	Not Listed	S5B	35	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
2-Jun-22	Point Count	CP	ML 10	5:27	10	BLBW	Blackburnian Warbler	2	singing	0					Setophaga fusca	6	
2-Jun-22	Point Count	CP				OVEN	Ovenbird	2	singing	0					Seiurus aurocapilla	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	100					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	2	singing	0					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	100					Poecile atricapilla	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
2-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caerulescens	6	
2-Jun-22	Point Count	CP				AMCR	American Crow	1	calling	100					Corvus brachyrhynchos	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	0					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP	ML 11	5:45	10	SOSP	Song Sparrow	1	singing	100					Melospiza melodia	6	
2-Jun-22	Point Count	CP				LEFL	Least Flycatcher	2	singing	100					Empidonax minimus	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	3	singing	50					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	100					Mniotilta varia	6	
2-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	2	singing	100					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				NOPA	Northern Parula	3	singing	50					Setophaga americana	6	
2-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	calling	50	Southeast				Setophaga castanea	6	
2-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	2	singing	100					Vireo olivaceus	6	
2-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	0					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
2-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	50					Dryobates villosus	7	
2-Jun-22	Point Count	CP				CORA	Common Raven	2	calling	250					Corvus corax	6	
2-Jun-22	Point Count	CP	ML 13	6:10	10	OSFL	Olive-sided Flycatcher	1	singing	100	Northeast				Contopus cooperi	6	
2-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	2	calling	0					Vireo olivaceus	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	2	drumming	0					Bonasa umbellus	7	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	50					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	100	Southwest				Setophaga palmarum	6	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	100					Setophaga fusca	6	
2-Jun-22	Point Count	CP				PIWO	Pileated Woodpecker	2	calling	50					Dryocopus pileatus	7	
2-Jun-22	Point Count	CP	ML 12	6:28	10	HAWO	Hairy Woodpecker	2	nesting young	50	Southeast				Dryobates villosus	7	nest with young, breeding confirmed
2-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	0					Poecile atricapilla	6	
2-Jun-22	Point Count	CP				OVEN	Ovenbird	2	singing	100					Seiurus aurocapilla	6	
2-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	passing	100					Setophaga caerulescens	6	
2-Jun-22	Point Count	CP				AMGO	American Goldfinch	2	calling	0					Spinus tristis	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	2	singing	50					Setophaga fusca	6	
2-Jun-22	Point Count	CP				BEKI	Belted Kingfisher	1	passing	0	West		50+	East	Megasceryle alcyon	3	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
2-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100			50	East	Vireo solitarius	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
2-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
2-Jun-22	Point Count	CP				PUFI	Purple Finch	1	singing	100			0	Northwest	Haemorhous purpureus	6	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100			100+	North	Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	500					Regulus satrapa	6	
2-Jun-22	Point Count	CP	ML 14	6:47	10	ALFL	Alder Flycatcher	2	singing	100					Empidonax alhorum	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	calling	0					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	50					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
2-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	50					Turdus migratorius	6	
2-Jun-22	Point Count	CP				CORA	Common Raven	1	passing	500					Corvus corax	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	calling	100					Setophaga virens	6	
2-Jun-22	Point Count	CP				COLO	Common Loon	1	passing	500	Northeast		50+	West	Gavia immer	3	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
2-Jun-22	Point Count	CP				CAWA	Canada Warbler	1	singing	100	Northwest				Cardellina canadensis	6	
2-Jun-22	Point Count	CP				CAJA	Canada Jay	1	calling	100					Perisoreus canadensis	6	
2-Jun-22	Point Count	CP	ML 20	7:06	10	BLPW	Blackpoll Warbler	5	singing	50					Setophaga striata	6	
2-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	50					Colaptes auratus	7	
2-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	2	singing	50					Vireo olivaceus	6	
2-Jun-22	Point Count	CP				CSWA	Chestnut-sided Warbler	1	singing	0					Setophaga pensylvanica	6	
2-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	singing	0					Empidonax alorum	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	0					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
2-Jun-22	Point Count	CP				PIWO	Pileated Woodpecker	1	calling	100					Dryocopus pileatus	7	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
2-Jun-22	Point Count	CP	ML 23	7:20	10	BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
2-Jun-22	Point Count	CP				BLJA	Blue Jay	1	calling	50					Cyanocitta cristata	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	3	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	100					Catharus guttatus	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
2-Jun-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
2-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
2-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	singing	0					Empidonax alorum	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	1	calling	0					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP	ML 21	7:37	10	PAWA	Palm Warbler	1	calling	0	East				Setophaga palmarum	6	
2-Jun-22	Point Count	CP				BEKI	Belted Kingfisher	1	agitated	50					Megasceryle alcyon	3	probable nest site, agitated near hole in sandy bank
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing						Setophaga magnolia	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	100					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	250					Setophaga virens	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	50					Catharus guttatus	6	
2-Jun-22	Point Count	CP				EAWP	Eastern Wood-Pewee	1	singing	100	North				Contopus virens	6	
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	100					Setophaga fusca	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	100					Setophaga coronata	6	
2-Jun-22	Point Count	CP				RTHU	Ruby-throated Hummingbird	1	calling	0					Archilochus colubris	6	
2-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	calling	50					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				RECR	Red Crossbill	1	passing	100	Northwest		50	South	Loxia curvirostra	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	100					Setophaga caerulea	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP	ML 22	7:57	10	MAWA	Magnolia Warbler	1	calling	0					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				PISI	Pine Siskin	1	drumming	0					Spinus pinus	6	
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	2	singing	100					Setophaga fusca	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	100					Setophaga virens	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	0					Turdus migratorius	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	calling	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	0					Setophaga caerulea	6	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
2-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
2-Jun-22	Point Count	CP				CSWA	Chestnut-sided Warbler	1	singing	100					Setophaga pensylvanica	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
2-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0	West				Bonasa umbellus	7	
2-Jun-22	Point Count	CP	ML 16	8:21	10	RCKI	Ruby-crowned Kinglet	1	singing	0					Corthylio calendula	6	
2-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	pipping	0	North				Contopus cooperi	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	2	singing	100					Vireo solitarius	6	
2-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	250	Northeast				Contopus cooperi	6	
2-Jun-22	Point Count	CP				SOSP	Song Sparrow	3	agitated	0					Melospiza melodia	6	probable nest nearby
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				COGR	Common Grackle	1	passing	100	South		50	East	Quiscalus quiscula	6	
2-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
2-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	1	calling	50					Bonasa umbellus	7	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
2-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	calling	0					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
2-Jun-22	Point Count	CP	ML 15	8:41	10	BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
2-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	0					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	1	flushed	0					Bonasa umbellus	7	
2-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	2	agitated	0					Junco hyemalis	6	agitated pair, nest likely nearby
2-Jun-22	Point Count	CP	ML 17	8:54	10	CAJA	Canada Jay	1	calling	0					Perisoreus canadensis	6	point moved 230 metres west by lake
2-Jun-22	Point Count	CP				COLO	Common Loon	1	calling	100	North				Gavia immer	3	circling around lake
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	3	singing	0					Empidonax flaviventris	6	
2-Jun-22	Point Count	CP				SOSP	Song Sparrow	1	carrying food	0					Melospiza melodia	6	carrying food, confirmed nesting
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
2-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
2-Jun-22	Point Count	CP				RECR	Red Crossbill	1	calling	100	Northeast				Loxia curvirostra	6	
2-Jun-22	Point Count	CP				PUFI	Purple Finch	2	calling	0					Haemorhous purpureus	6	
2-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
2-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
2-Jun-22	Point Count	CP	ML 18	9:22	10	SWTH	Swainson's Thrush	2	singing	50					Catharus ustulatus	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	0					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	calling	0					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
2-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
2-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	singing	100					Empidonax alhorum	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP	ML 19	9:41	10	OSFL	Olive-sided Flycatcher	1	singing	0	Southeast				Contopus cooperi	6	
2-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
2-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
2-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
2-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
2-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
2-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
2-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
2-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
2-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
2-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
2-Jun-22	Point Count	CP				BAEA	Bald Eagle	1	passing						Haliaeetus leucocephalus	4	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Jun-22	Point Count	CP	ML 1	6:05	10	BHVI	Blue-headed Vireo	2	singing	0					Vireo solitarius	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	50					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	0					Empidonax flaviventris	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	0					Catharus ustulatus	6	
7-Jun-22	Point Count	CP				PISI	Pine Siskin	1	calling	50					Spinus pinus	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	50					Catharus guttatus	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	100					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				BLJA	Blue Jay	1	calling	50					Cyanocitta cristata	6	
7-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
7-Jun-22	Point Count	CP				NOWA	Northern Waterthrush	1	singing	0					Parkesia noveboracensis	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	0					Zenaida macroura	7	
7-Jun-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	Northwest				Perisoreus canadensis	6	
7-Jun-22	Point Count	CP				BRCR	Brown Creeper	1	singing	0					Certhia americana	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				BOCH	Boreal Chickadee	1	singing	0					Poecile hudsonica	6	
7-Jun-22	Point Count	CP	ML 2	6:18	10	COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	0					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	2	singing	0					Mniotilta varia	6	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	0					Zenaida macroura	7	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	100					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	0	Southeast				Turdus migratorius	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	50					Regulus satrapa	6	
7-Jun-22	Point Count	CP	ML 3	6:38	10	BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	flightless young
7-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	3	singing	50					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	0					Setophaga caeruleascens	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
7-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	3	singing	100					Catharus ustulatus	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	flightless young
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	0					Troglodytes hiemalis	6	adult with young
7-Jun-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	50					Zenaida macroura	7	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
7-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	1	calling	50					Bombicilla cedrorum	6	
7-Jun-22	Point Count	CP				AMCR	American Crow	1	calling	250					Corvus brachyrhynchos	6	
7-Jun-22	Point Count	CP	ML 4	6:51	10	BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	100					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	0					Vireo olivaceus	6	
7-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	3	singing	50					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	
7-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caeruleascens	6	
7-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
7-Jun-22	Point Count	CP				COLO	Common Loon	1	calling	1000	Northwest				Gavia immer	3	
7-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	



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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	calling	50					Empidonax alorum	6	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
7-Jun-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-Jun-22	Point Count	CP	ML 25	7:06	10	BBWA	Bay-breasted Warbler	1	singing	50	East				Setophaga castanea	6	
7-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caerulea	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaidura macroura	7	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	1	calling	100					Bombus cedrorum	6	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	50					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	50					Setophaga coronata	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				PUFI	Purple Finch	1	singing	100					Haemorhous purpureus	6	
7-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	500	Northwest				Contopus cooperi	6	
7-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	250					Colaptes auratus	7	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP	ML 5	7:21	10	BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
7-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	2	singing	50	Northeast				Setophaga castanea	6	
7-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaidura macroura	7	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	50					Setophaga coronata	6	
7-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	calling	100					Empidonax flaviventris	6	
7-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				CAWA	Canada Warbler	1	singing	100	East				Cardellina canadensis	6	waypoint 233
7-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	50					Regulus satrapa	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	2	singing	100					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
7-Jun-22	Point Count	CP	ML 6	7:37	10	OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	singing	50	East				Setophaga castanea	6	
7-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	2	singing	0					Vireo olivaceus	6	
7-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	0					Setophaga americana	6	
7-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	100					Setophaga ruticilla	6	
7-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
7-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
7-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
7-Jun-22	Point Count	CP	ML 24	7:52	10	BBWA	Bay-breasted Warbler	1	singing	0	Northwest				Setophaga castanea	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	50					Catharus guttatus	6	
7-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
7-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	250	Southeast				Contopus cooperi	6	
7-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	100					Empidonax flaviventris	6	
7-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP	ML 7	8:12	10	RCKI	Ruby-crowned Kinglet	1	singing	100	North				Corthylio calendula	6	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	carrying food	0					Catharus guttatus	6	carrying food, confirmed breeding
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	50					Junco hyemalis	6	
7-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	100					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
7-Jun-22	Point Count	CP	ML 8	8:28	10	BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
7-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	0					Setophaga americana	6	
7-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
7-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
7-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
7-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	100					Seiurus aurocapilla	6	
7-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	agitated	0					Junco hyemalis	6	probably nesting
7-Jun-22	Point Count	CP				AMGO	American Goldfinch	1	passing	0	Southwest		50	East	Spinus tristis	6	
7-Jun-22	Point Count	CP	ML 9	8:43	10	ALFL	Alder Flycatcher	1	calling	0					Empidonax alorum	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				AMRE	American Redstart	2	singing	50					Setophaga ruticilla	6	
7-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
7-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	2	calling	50					Bombcilla cedrorum	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	
7-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	100					Regulus satrapa	6	
7-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caerulescens	6	
7-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
7-Jun-22	Point Count	CP	ML 26	9:05	10	SWTH	Swainson's Thrush	1	singing						Catharus ustulatus	6	
7-Jun-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	West				Corthylio calendula	6	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caerulescens	6	
7-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	100	Northwest				Contopus cooperi	6	
7-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	50					Catharus guttatus	6	
7-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
7-Jun-22	Point Count	CP				AMRE	American Redstart	2	singing	50					Setophaga ruticilla	6	
7-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	singing	50					Empidonax alorum	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	singing	50	Southeast				Setophaga castanea	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	50					Setophaga coronata	6	
7-Jun-22	Point Count	CP	ML 27	9:19	10	DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
7-Jun-22	Point Count	CP				COGR	Common Grackle	1	passing	0	East		50	West	Quiscalus quiscula	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
7-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
7-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaidura macroura	7	
7-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	2	singing	50					Empidonax alorum	6	
7-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	100					Seiurus aurocapilla	6	
7-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
7-Jun-22	Point Count	CP				PUFI	Purple Finch	1	singing	50					Haemorhous purpureus	6	
7-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	occupied nest	0					Colaptes auratus	7	occupied nest, confirmed breeding
7-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
7-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
7-Jun-22	Point Count	CP	ML 28	9:42	10	WODU	Wood Duck	6	flushed	0					Aix sponsa	1	
7-Jun-22	Point Count	CP				BOCH	Boreal Chickadee	2	calling	100	Southeast				Poecile hudsonica	6	
7-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Jun-22	Point Count	CP				OSFL	Olive-sided Flycatcher	1	singing	250	North				Contopus cooperi	6	
7-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	0					Setophaga virens	6	
7-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	0					Setophaga coronata	6	
7-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
7-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
7-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	0					Turdus migratorius	6	
7-Jun-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
7-Jun-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	100	North				Corthylio calendula	6	
7-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
7-Jun-22	Point Count	CP				COGR	Common Grackle	1	calling	50					Quiscalus quiscula	6	
7-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	100					Setophaga americana	6	
7-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
7-Jun-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	50	South				Corthylio calendula	6	
27-Jun-22	Point Count	CP	ML 1	5:38	10	MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				NAWA	Nashville Warbler	1	singing	100					Leiostyris alpestris	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	2	singing	50					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	100					Poecile atricapilla	6	
27-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	100					Geothlypis trichas	6	
27-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	100					Setophaga americana	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	100					Setophaga virens	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
27-Jun-22	Point Count	CP				RECR	Red Crossbill	1	calling	100	North				Loxia curvirostra	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
27-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
27-Jun-22	Point Count	CP	ML 2	5:53	10	HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	0					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
27-Jun-22	Point Count	CP				CAJA	Canada Jay	2	calling	0	East				Perisoreus canadensis	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	50					Regulus satrapa	6	
27-Jun-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	100					Poecile atricapilla	6	
27-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	100					Empidonax flaviventris	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
27-Jun-22	Point Count	CP	ML 3	6:08	10	BTNW	Black-throated Green Warbler	3	singing	0					Setophaga virens	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	0					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	50					Regulus satrapa	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	calling	0					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
27-Jun-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
27-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	1	calling	50					Bombcilla cedrorum	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
27-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
27-Jun-22	Point Count	CP	ML 4	6:22	10	BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	100					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
27-Jun-22	Point Count	CP				PUFI	Purple Finch	1	calling	0					Haemorhous purpureus	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	2	foraging	0					Setophaga fusca	6	silently foraging pair



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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
27-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	singing	0	Southwest				Setophaga castanea	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
27-Jun-22	Point Count	CP	ML 25	6:42	10	SWTH	Swainson's Thrush	2	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	100					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	100					Setophaga virens	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	2	singing	0					Junco hyemalis	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP	ML 5	7:01	10	BBWA	Bay-breasted Warbler	1	singing	0	North				Setophaga castanea	6	
27-Jun-22	Point Count	CP				AMRO	American Robin	2	agitated	50					Turdus migratorius	6	
27-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
27-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	50					Regulus satrapa	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
27-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
27-Jun-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
27-Jun-22	Point Count	CP	ML 24	7:21	10	BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	wind picking up
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50	South				Sitta canadensis	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
27-Jun-22	Point Count	CP	ML 6	7:39	10	SWTH	Swainson's Thrush	2	singing	0					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
27-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	singing	50	Southwest				Setophaga castanea	6	
27-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	2	singing	0					Setophaga fusca	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	100					Setophaga americana	6	
27-Jun-22	Point Count	CP	ML 7	7:56	10	GCKI	Golden-crowned Kinglet	1	singing	50					Regulus satrapa	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
27-Jun-22	Point Count	CP				OVEN	Ovenbird	1	singing	50					Seiurus aurocapilla	6	
27-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	0					Setophaga coronata	6	
27-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50	East				Sitta canadensis	6	
27-Jun-22	Point Count	CP	ML 8	8:12	10	REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
27-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	1	calling	50					Bombcilla cedrorum	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP	ML 9	8:29	10	BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	3	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	0					Setophaga fusca	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	3	singing	0					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100	Southeast				Catharus guttatus	6	
27-Jun-22	Point Count	CP				RTHU	Ruby-throated Hummingbird	1	calling	0					Archilochus colubris	6	
27-Jun-22	Point Count	CP	ML 17	8:58	10	CAWA	Canada Warbler	1	singing	100	Northwest				Cardellina canadensis	6	
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	

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27-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	3	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
27-Jun-22	Point Count	CP				CAJA	Canada Jay	2	calling	100					Perisoreus canadensis	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	calling	100					Empidonax flaviventris	6	
27-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
27-Jun-22	Point Count	CP	ML 18	9:28	10	AMRE	American Redstart	2	singing	0					Setophaga ruticilla	6	
27-Jun-22	Point Count	CP				ALFL	Alder Flycatcher	1	singing	0					Empidonax alhorum	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	0					Mniotilta varia	6	
27-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	calling	50					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
27-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
27-Jun-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	100					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	100					Geothlypis trichas	6	
27-Jun-22	Point Count	CP	ML 19	9:50	10	SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
27-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
27-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	50					Zonotrichia albicollis	6	
27-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	0					Setophaga ruticilla	6	
27-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
27-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
27-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
27-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
27-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
27-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	100					Mniotilta varia	6	
27-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
30-Jun-22	Point Count	CP	10	5:59	10	BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
30-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
30-Jun-22	Point Count	CP				BBWA	Bay-breasted Warbler	1	singing	0	West				Setophaga castanea	6	
30-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
30-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
30-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
30-Jun-22	Point Count	CP				BHVI	Blue-headed Vireo	2	singing	50					Vireo solitarius	6	
30-Jun-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
30-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
30-Jun-22	Point Count	CP				BTBW	Black-throated Blue Warbler	1	singing	50					Setophaga caerulea	6	
30-Jun-22	Point Count	CP				BLBW	Blackburnian Warbler	1	singing	50					Setophaga fusca	6	
30-Jun-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100					Sitta canadensis	6	
30-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	50					Setophaga palmarum	6	
30-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
30-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	0					Setophaga magnolia	6	
30-Jun-22	Point Count	CP				CAJA	Canada Jay	2	calling	100	West				Perisoreus canadensis	6	
30-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
30-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	
30-Jun-22	Point Count	CP	ML 11	6:16	10	AMRE	American Redstart	2	singing	0					Setophaga ruticilla	6	
30-Jun-22	Point Count	CP				LEFL	Least Flycatcher	1	singing	0					Empidonax minimus	6	
30-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	3	singing	0					Vireo olivaceus	6	
30-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
30-Jun-22	Point Count	CP				HETH	Hermit Thrush	1	singing	50					Catharus guttatus	6	
30-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
30-Jun-22	Point Count	CP				CEDW	Cedar Waxwing	2	calling	50					Bombicilla cedrorum	6	
30-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	2	singing	100					Catharus ustulatus	6	
30-Jun-22	Point Count	CP				SOSP	Song Sparrow	1	singing	50					Melospiza melodia	6	
30-Jun-22	Point Count	CP				NOPA	Northern Parula	2	singing	50					Setophaga americana	6	
30-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
30-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
30-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
30-Jun-22	Point Count	CP	ML 13	6:36	10	OVEN	Ovenbird	1	singing	0					Seiurus aurocapilla	6	
30-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
30-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	50					Vireo olivaceus	6	
30-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	3	singing	0					Setophaga virens	6	
30-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
30-Jun-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	100					Geothlypis trichas	6	
30-Jun-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
30-Jun-22	Point Count	CP				SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
30-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
30-Jun-22	Point Count	CP				AMRE	American Redstart	1	singing	50					Setophaga ruticilla	6	
30-Jun-22	Point Count	CP				BLJA	Blue Jay	1	singing	100					Cyanocitta cristata	6	
30-Jun-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
30-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	50					Colaptes auratus	7	
30-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
30-Jun-22	Point Count	CP				RTHU	Ruby-throated Hummingbird	1	calling	0					Archilochus colubris	6	
30-Jun-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
30-Jun-22	Point Count	CP	ML 12	7:12	10	COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
30-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
30-Jun-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	0					Zonotrichia albicollis	6	
30-Jun-22	Point Count	CP				CORA	Common Raven	1	calling	1000					Corvus corax	6	
30-Jun-22	Point Count	CP				AMRO	American Robin	1	singing	100					Turdus migratorius	6	
30-Jun-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
30-Jun-22	Point Count	CP				CAJA	Canada Jay	2	flightless young	0	East				Perisoreus canadensis	6	
30-Jun-22	Point Count	CP				PAWA	Palm Warbler	2	singing	0					Setophaga palmarum	6	
30-Jun-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
30-Jun-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
30-Jun-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
30-Jun-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	100					Setophaga virens	6	
30-Jun-22	Point Count	CP				REVI	Red-eyed Vireo	1	singing	100					Vireo olivaceus	6	
30-Jun-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	100					Setophaga magnolia	6	
30-Jun-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	100					Setophaga coronata	6	
30-Jun-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
30-Jun-22	Point Count	CP				NOPA	Northern Parula	1	singing	50					Setophaga americana	6	
14-Jul-22	Point Count	CP	ML 14	6:58	10	WTSP	White-throated Sparrow	3	singing	50					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	3	singing	50					Catharus guttatus	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	50					Geothlypis trichas	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
14-Jul-22	Point Count	CP				RECR	Red Crossbill	1	calling	100	Southeast				Loxia curvirostra	6	
14-Jul-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
14-Jul-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
14-Jul-22	Point Count	CP				AMRE	American Redstart	1	calling	0					Setophaga ruticilla	6	
14-Jul-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	50					Setophaga virens	6	
14-Jul-22	Point Count	CP	ML 16	7:16	10	COGR	Common Grackle	1	calling	100					Quiscalus quiscula	6	
14-Jul-22	Point Count	CP				OSFL	Olive-sided Flycatcher	2	agitated	0	North				Contopus cooperi	6	
14-Jul-22	Point Count	CP				RTHA	Red-tailed Hawk	1	calling	100					Buteo jamaicensis	4	
14-Jul-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	100					Vireo solitarius	6	
14-Jul-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	singing	100					Setophaga coronata	6	
14-Jul-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	50					Poecile atricapilla	6	
14-Jul-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
14-Jul-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	100					Setophaga virens	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				SWSP	Swamp Sparrow	2	singing	50					Melospiza georgiana	6	
14-Jul-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
14-Jul-22	Point Count	CP				AMRO	American Robin	2	calling	50					Turdus migratorius	6	
14-Jul-22	Point Count	CP	ML 15	7:36	10	AMRO	American Robin	1	singing	100					Turdus migratorius	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
14-Jul-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
14-Jul-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
14-Jul-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
14-Jul-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
14-Jul-22	Point Count	CP				CSWA	Chestnut-sided Warbler	1	singing	0					Setophaga pensylvanica	6	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
14-Jul-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				CONI	Common Nighthawk	1	boom	100	Northwest				Chordeiles minor	6	booming throughout waypoint
14-Jul-22	Point Count	CP	ML 22	8:00	10	SWTH	Swainson's Thrush	1	singing	50					Catharus ustulatus	6	
14-Jul-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	2	singing	100					Catharus guttatus	6	
14-Jul-22	Point Count	CP				WTSP	White-throated Sparrow	2	singing	100					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
14-Jul-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
14-Jul-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
14-Jul-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	singing	0					Regulus satrapa	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	2	singing	50					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
14-Jul-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	0					Geothlypis trichas	6	
14-Jul-22	Point Count	CP				ALFL	Alder Flycatcher	1	calling	50					Empidonax alorum	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
14-Jul-22	Point Count	CP	ML 21	8:16	10	BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	2	singing	50					Catharus guttatus	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	singing	50					Setophaga coronata	6	
14-Jul-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50	West				Sitta canadensis	6	
14-Jul-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
14-Jul-22	Point Count	CP				BHVI	Blue-headed Vireo	1	singing	50					Vireo solitarius	6	
14-Jul-22	Point Count	CP	ML 20	8:36	10	SWTH	Swainson's Thrush	1	singing	100					Catharus ustulatus	6	
14-Jul-22	Point Count	CP				MODO	Mourning Dove	1	singing	100					Zenaida macroura	7	
14-Jul-22	Point Count	CP				REVI	Red-eyed Vireo	2	singing	100					Vireo olivaceus	6	
14-Jul-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
14-Jul-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
14-Jul-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
14-Jul-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
14-Jul-22	Point Count	CP				WIWR	Winter Wren	1	singing	100					Troglodytes hiemalis	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	100					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				CONI	Common Nighthawk	1	boom	500	Northwest				Chordeiles minor	6	
14-Jul-22	Point Count	CP	ML 23	8:50	10	HETH	Hermit Thrush	1	singing	50					Catharus guttatus	6	
14-Jul-22	Point Count	CP				MAWA	Magnolia Warbler	1	singing	50					Setophaga magnolia	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	50					Junco hyemalis	6	
14-Jul-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
14-Jul-22	Point Count	CP				COYE	Common Yellowthroat	2	singing	0					Geothlypis trichas	6	
14-Jul-22	Point Count	CP				PAWA	Palm Warbler	1	singing	50					Setophaga palmarum	6	
14-Jul-22	Point Count	CP				RECR	Red Crossbill	1	singing	50	Northwest				Loxia curvirostra	6	
14-Jul-22	Point Count	CP	ML 27	9:03	10	BCCH	Black-capped Chickadee	4	calling	50					Poecile atricapilla	6	
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
14-Jul-22	Point Count	CP				COYE	Common Yellowthroat	1	singing	50					Geothlypis trichas	6	
14-Jul-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	50	Southwest				Corthylio calendula	6	
14-Jul-22	Point Count	CP				MODO	Mourning Dove	2	singing	50					Zenaida macroura	7	
14-Jul-22	Point Count	CP				BAWW	Black-and-white Warbler	1	singing	50					Mniotilta varia	6	
14-Jul-22	Point Count	CP				HETH	Hermit Thrush	1	singing	100					Catharus guttatus	6	
14-Jul-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	50					Zonotrichia albicollis	6	
14-Jul-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	100	West				Sitta canadensis	6	
14-Jul-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
14-Jul-22	Point Count	CP				YBFL	Yellow-bellied Flycatcher	1	singing	50					Empidonax flaviventris	6	
14-Jul-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
14-Jul-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
14-Jul-22	Point Count	CP	ML 28	9:24	10	BOCH	Boreal Chickadee	1	calling	50					Poecile hudsonica	6	
14-Jul-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
14-Jul-22	Point Count	CP				BTNW	Black-throated Green Warbler	2	singing	50					Setophaga virens	6	
14-Jul-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
14-Jul-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
14-Jul-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	

Table 10: Species Data - 2022 Breeding Bird Point Count Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
14-Jul-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	50					Junco hyemalis	6	
14-Jul-22	Point Count	CP				CAJA	Canada Jay	2	calling	0	North				Perisoreus canadensis	6	
14-Jul-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0	Southeast				Regulus satrapa	6	
14-Jul-22	Point Count	CP				WWCR	White-winged Crossbill	1	calling	50	East				Loxia leucoptera	6	

**Table 11: Species Summary - 2022 Common Nighthawk Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

<b>Common name</b>	<b>Scientific Name</b>	<b>Bird Group</b>	<b>SARA</b>	<b>COSEWIC</b>	<b>ESA</b>	<b>NS S-rank</b>	<b>Number Observed</b>
Common Loon	Gavia immer	3	Not Listed	Not at Risk	Not Listed	S4B	1
Common Nighthawk	Chordeiles minor	6	Special Concern	Special Concern	Threatened	S3B	15

Table 12: Species Data - 2022 Common Nighthawk Survey Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
7-Jul-22	Nightjar	CP	ML CONI 1	8:41	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 2	8:54	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		CONI	Common Nighthawk	1	boom	500	Southeast				Chordeiles minor	6	
7-Jul-22	Nightjar	CP		#5		CONI	Common Nighthawk	1	boom	500	Southeast				Chordeiles minor	6	
7-Jul-22	Nightjar	CP		#6		CONI	Common Nighthawk	1	peent	500	South				Chordeiles minor	6	
7-Jul-22	Nightjar	CP	ML CONI 3	9:06	6	COLO	Common Loon	1	calling	1000	Southwest				Gavia immer	3	
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 4	9:15	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 5	9:24	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 6	9:36	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		CONI	Common Nighthawk	1	peent	500	Northwest				Chordeiles minor	6	
7-Jul-22	Nightjar	CP		#5		CONI	Common Nighthawk	1	boom	100	North				Chordeiles minor	6	
7-Jul-22	Nightjar	CP		#6		CONI	Common Nighthawk	1	boom	50	North				Chordeiles minor	6	
7-Jul-22	Nightjar	CP	ML CONI 7	9:48	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 8	9:57	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
7-Jul-22	Nightjar	CP	ML CONI 9	10:07	6	no birds											
7-Jul-22	Nightjar	CP		#2		no birds											
7-Jul-22	Nightjar	CP		#3		no birds											
7-Jul-22	Nightjar	CP		#4		no birds											
7-Jul-22	Nightjar	CP		#5		no birds											
7-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 1	8:45	6	no birds											
15-Jul-22	Nightjar	CP		#2		CONI	Common Nighthawk	1	peent	500	Northwest				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#3		CONI	Common Nighthawk	1	boom	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#4		CONI	Common Nighthawk	1	peent	500	Northwest				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#4		CONI	Common Nighthawk	1	peent	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#5		CONI	Common Nighthawk	1	peent	500	West				Chordeiles minor	6	



Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
15-Jul-22	Nightjar	CP		#6		CONI	Common Nighthawk	1	peent	250	West				Chordeiles minor	6	
15-Jul-22	Nightjar	CP	ML CONI 2	8:59	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		CONI	Common Nighthawk	1	peent	500	East				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#6		CONI	Common Nighthawk	1	peent	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	CP	ML CONI 3	9:13	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 4	9:29	6	CONI	Common Nighthawk	1	peent	500	South				Chordeiles minor	6	
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 5	9:46	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 6	9:59	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 7	10:13	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 8	10:24	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											
15-Jul-22	Nightjar	CP	ML CONI 9	10:35	6	no birds											
15-Jul-22	Nightjar	CP		#2		no birds											
15-Jul-22	Nightjar	CP		#3		no birds											
15-Jul-22	Nightjar	CP		#4		no birds											
15-Jul-22	Nightjar	CP		#5		no birds											
15-Jul-22	Nightjar	CP		#6		no birds											



Table 13: Species Summary - 2022 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	4
American Goldfinch	Carduelis tristis	6	Not Listed	Not Listed	Not Listed	S5	26
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	21
American Woodcock	Scolopax minor	2	Not Listed	Not Listed	Not Listed	S5B	1
Black-and-white Warbler	Mniotilta varia	6	Not Listed	Not Listed	Not Listed	S5B	1
Black-capped Chickadee	Poecile atricapilla	6	Not Listed	Not Listed	Not Listed	S5	133
Blue-headed Vireo	Vireo solitarius	6	Not Listed	Not Listed	Not Listed	S5B	4
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	24
Blackpoll Warbler	Dendroica striata	6	Not Listed	Not Listed	Not Listed	S5	39
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	SU	11
Brown Creeper	Certhia americana	6	Not Listed	Not Listed	Not Listed	S5	5
Black-throated Green Warbler	Dendroica virens	6	Not Listed	Not Listed	Not Listed	S5	5
Chipping Sparrow	Spizella passerina	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	10
Common Yellowthroat	Geothlypis trichas	6	Not Listed	Not Listed	Not Listed	S5B	5
Dark-eyed Junco	Junco hyemalis	6	Not Listed	Not Listed	Not Listed	S4S5	86
Downy Woodpecker	Picoides pubescens	7	Not Listed	Not Listed	Not Listed	SU	9
Golden-crowned Kinglet	Regulus satrapa	6	Not Listed	Not Listed	Not Listed	S5	47
Canada Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	23
Hairy Woodpecker	Picoides villosus	7	Not Listed	Not Listed	Not Listed	SU	10
Hermit Thrush	Catharus guttatus	6	Not Listed	Not Listed	Not Listed	S5B	21
Lincoln's Sparrow	Melospiza lincolni	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Magnolia Warbler	Dendroica magnolia	6	Not Listed	Not Listed	Not Listed	S5	1
Northern Flicker	Colaptes auratus	7	Not Listed	Not Listed	Not Listed	S5B	10
Orange-crowned Warbler	Leiothlypis celata	6	Not Listed	Not Listed	Not Listed	SUM	1
Palm Warbler	Dendroica palmarum	6	Not Listed	Not Listed	Not Listed	S5	12
Pine Siskin	Carduelis pinus	6	Not Listed	Not Listed	Not Listed	S5	1
Pine Warbler	Dendroica pinus	6	Not Listed	Not Listed	Not Listed	S5	1
Pileated Woodpecker	Dryocopus pileatus	7	Not Listed	Not Listed	Not Listed	S5	3
Purple Finch	Carpodacus purpureus	6	Not Listed	Not Listed	Not Listed	S5	10
Red-breasted Nuthatch	Sitta canadensis	6	Not Listed	Not Listed	Not Listed	S4S5	18
Ruby-crowned Kinglet	Regulus calendula	6	Not Listed	Not Listed	Not Listed	S5	9
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3, S4	8
Red-eyed Vireo	Vireo olivaceus	6	Not Listed	Not Listed	Not Listed	S5B	1
Ring-necked Duck	Aythya collaris	1	Not Listed	Not Listed	Not Listed	S5B	15
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	1
Ruffed Grouse	Bonasa umbellus	7	Not Listed	Not Listed	Not Listed	S5	4
Song Sparrow	Melospiza melodia	6	Not Listed	Not Listed	Not Listed	S5B	5
Spruce Grouse	Falcapennis canadensis	7	Not Listed	Not Listed	Not Listed	SU	7
Sharp-shinned Hawk	Accipiter striatus	4	Not Listed	Not at Risk	Not Listed	S5	1
Swamp Sparrow	Melospiza georgiana	6	Not Listed	Not Listed	Not Listed	S5B	2
Winter Wren	Troglodytes troglodytes	6	Not Listed	Not Listed	Not Listed	SU	1
White-throated Sparrow	Zonotrichia albicollis	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	12
White-winged Crossbill	Loxia leucoptera	6	Not Listed	Not Listed	Not Listed	S4S5	1

**Table 13: Species Summary - 2022 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

<b>Common name</b>	<b>Scientific Name</b>	<b>Bird Group</b>	<b>SARA</b>	<b>COSEWIC</b>	<b>ESA</b>	<b>NS S-rank</b>	<b>Number Observed</b>
Yellow-rumped Warbler	Dendroica coronata	6	Not Listed	Not Listed	Not Listed	S5	43
Warbler Species		6					4
Blackbird Species		6					9

Table 14: Species Data - 2022 Fall Migration Point Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
21-Sep-22	Point Count	CP	ML 1	7:08	10	DEJU	Dark-eyed Junco	3	calling	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP	ML 2	7:25	10	BTNW	Black-throated Green Warbler	1	passing	0					Setophaga virens	6	
21-Sep-22	Point Count	CP				PIWO	Pileated Woodpecker	2	passing	0	Northwest		50	Southeast	Dryocopus pileatus	7	
21-Sep-22	Point Count	CP				PAWA	Palm Warbler	2	calling	50					Setophaga palmarum	6	
21-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP				RUGR	Ruffed Grouse	2	flushed	0					Bonasa umbellus	7	
21-Sep-22	Point Count	CP	ML 3	7:42	10	AMRO	American Robin	1	calling	0					Turdus migratorius	6	
21-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	passing	0	East		50	Southwest	Setophaga coronata	6	
21-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
21-Sep-22	Point Count	CP	ML 4	7:58	10	BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
21-Sep-22	Point Count	CP				NOFL	Northern Flicker	2	flushed	50					Colaptes auratus	7	
21-Sep-22	Point Count	CP				SOSP	Song Sparrow	2	calling	0					Melospiza melodia	6	
21-Sep-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
21-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	6	foraging	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				COYE	Common Yellowthroat	3	foraging	0					Geothlypis trichas	6	
21-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
21-Sep-22	Point Count	CP	ML 5	8:13	10	RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
21-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP	ML 6	8:27	10	BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				MAWA	Magnolia Warbler	1	foraging	0					Setophaga magnolia	6	
21-Sep-22	Point Count	CP				CAJA	Canada Jay	2	calling	0					Perisoreus canadensis	6	
21-Sep-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	foraging	0					Sitta canadensis	6	
21-Sep-22	Point Count	CP				AMGO	American Goldfinch	2	calling	0					Spinus tristis	6	
21-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	3	calling	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				BHVI	Blue-headed Vireo	1	calling	0					Vireo solitarius	6	
21-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
21-Sep-22	Point Count	CP				AMRO	American Robin	2	calling	100					Turdus migratorius	6	
21-Sep-22	Point Count	CP	ML 24	8:44	10		Warbler Species	2	calling	0							
21-Sep-22	Point Count	CP				AMGO	American Goldfinch	2	passing	0	North		50	South	Spinus tristis	6	
21-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
21-Sep-22	Point Count	CP				WIWR	Winter Wren	1	calling	0					Troglodytes hiemalis	6	
21-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
21-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	50					Catharus guttatus	6	
21-Sep-22	Point Count	CP	ML 7	9:02	10	BCCH	Black-capped Chickadee	6	flushed	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				BLJA	Blue Jay	2	singing	0					Cyanocitta cristata	6	lots of water noise, hard to hear distant birds
21-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				AMGO	American Goldfinch	1	singing	0					Spinus tristis	6	
21-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
21-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	2	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP	ML 8	9:21	10	BLPW	Blackpoll Warbler	2	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP				BLJA	Blue Jay	2	calling	0					Cyanocitta cristata	6	
21-Sep-22	Point Count	CP	ML 9	9:35	10	BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	calling	0					Setophaga virens	6	
21-Sep-22	Point Count	CP				COYE	Common Yellowthroat	1	calling	0					Geothlypis trichas	6	
21-Sep-22	Point Count	CP				NOFL	Northern Flicker	2	flushed	0					Colaptes auratus	7	
21-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	2	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	
21-Sep-22	Point Count	CP				AMGO	American Goldfinch	2	calling	0					Spinus tristis	6	
21-Sep-22	Point Count	CP	ML 13	9:57	10	BLJA	Blue Jay	2	calling	50					Cyanocitta cristata	6	
21-Sep-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	calling	0					Setophaga virens	6	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	2	calling	0					Setophaga striata	6	
21-Sep-22	Point Count	CP	ML 16	10:26	10	HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
21-Sep-22	Point Count	CP				BHVI	Blue-headed Vireo	1	calling	0					Vireo solitarius	6	
21-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	5	calling	0					Setophaga coronata	6	
21-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				PAWA	Palm Warbler	3	calling	50					Setophaga palmarum	6	
21-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	50					Zonotrichia albicollis	6	
21-Sep-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
21-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	3	passing	0					Setophaga striata	6	
21-Sep-22	Point Count	CP				BLJA	Blue Jay	3	calling	100					Cyanocitta cristata	6	
21-Sep-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
21-Sep-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
21-Sep-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	calling	0					Sitta canadensis	6	
21-Sep-22	Point Count	CP	ML 18	11:04	10	BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	

Table 14: Species Data - 2022 Fall Migration Point Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
21-Sep-22	Point Count	CP				BAWW	Black-and-white Warbler	1	calling	0					Mniotilta varia	6	
21-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
21-Sep-22	Point Count	CP				RBNH	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
21-Sep-22	Point Count	CP				AMWO	American Woodcock	1	flushed	0					Scolopax minor	2	
30-Sep-22	Point Count	CP	ML 10	7:10	10	HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
30-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	0					Cyanocitta cristata	6	
30-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	3	calling	0					Setophaga striata	6	
30-Sep-22	Point Count	CP				CAJA	Canada Jay	1	calling	100	Southwest				Perisoreus canadensis	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	50					Regulus satrapa	6	
30-Sep-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	100					Dryobates pubescens	7	
30-Sep-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
30-Sep-22	Point Count	CP				AMCR	American Crow	1	calling	0					Corvus brachyrhynchos	6	
30-Sep-22	Point Count	CP	ML 11	7:29	10	BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	singing	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	West				Perisoreus canadensis	6	
30-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
30-Sep-22	Point Count	CP	ML 12	7:45	10	DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	0					Dryobates pubescens	7	
30-Sep-22	Point Count	CP				PUFI	Purple Finch	3	calling	0					Haemorhous purpureus	6	
30-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	0					Cyanocitta cristata	6	
30-Sep-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
30-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	3	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP	ML 14	8:09	10	DEJU	Dark-eyed Junco	1	drumming	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
30-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0			50		Zonotrichia albicollis	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
30-Sep-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
30-Sep-22	Point Count	CP					Warbler Species	1	passing	0	Northeast		50	Southwest			
30-Sep-22	Point Count	CP				SPGR	Spruce Grouse	1	flushed	0		Yes			Canachites canadensis	7	
30-Sep-22	Point Count	CP	ML 15	8:25	10	PAWA	Palm Warbler	1	singing	0					Setophaga palmarum	6	
30-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
30-Sep-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
30-Sep-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
30-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	singing	100					Zonotrichia albicollis	6	
30-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
30-Sep-22	Point Count	CP	ML 17	8:43	10	BCCH	Black-capped Chickadee	3	passing	100					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	soaring	0					Setophaga virens	6	
30-Sep-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
30-Sep-22	Point Count	CP				SOSP	Song Sparrow	1	singing	0					Melospiza melodia	6	
30-Sep-22	Point Count	CP				SWSP	Swamp Sparrow	1	calling	50					Melospiza georgiana	6	
30-Sep-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
30-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
30-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
30-Sep-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
30-Sep-22	Point Count	CP	ML 20	9:06	10	BHVI	Blue-headed Vireo	2	singing	0					Vireo solitarius	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				AMGO	American Goldfinch	5	calling	0					Spinus tristis	6	
30-Sep-22	Point Count	CP				REVI	Red-eyed Vireo	1	foraging	0					Vireo olivaceus	6	
30-Sep-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
30-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	0					Cyanocitta cristata	6	
30-Sep-22	Point Count	CP				NOFL	Northern Flicker	1	calling	0					Colaptes auratus	7	
30-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	6	calling	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
30-Sep-22	Point Count	CP				RECR	Red Crossbill	1	passing	0	North		50	South	Loxia curvirostra	6	
30-Sep-22	Point Count	CP	ML 23	9:31	10	BOCH	Boreal Chickadee	1	calling	0					Poecile hudsonica	6	
30-Sep-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
30-Sep-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
30-Sep-22	Point Count	CP					Warbler Species	1	calling	0							
30-Sep-22	Point Count	CP	ML 19	9:45	10	AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
30-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	12	calling	0					Poecile atricapilla	6	

Table 14: Species Data - 2022 Fall Migration Point Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
30-Sep-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
30-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	50					Setophaga coronata	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP	ML 21	10:04	10	DEJU	Dark-eyed Junco	10	flushed	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	passing	0	North		50	South	Setophaga coronata	6	
30-Sep-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
30-Sep-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
30-Sep-22	Point Count	CP				PUFI	Purple Finch	1	calling	50					Haemorhous purpureus	6	
30-Sep-22	Point Count	CP	ML 22	10:30	10	GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
30-Sep-22	Point Count	CP				CAJA	Canada Jay	2	calling	0					Perisoreus canadensis	6	
30-Sep-22	Point Count	CP				AMGO	American Goldfinch	2	passing	0	Southwest		50	Northeast	Spinus tristis	6	
30-Sep-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
30-Sep-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
8-Oct-22	Point Count	CP	ML 1	7:28	10	CORA	Common Raven	1	calling	100					Corvus corax	6	
8-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
8-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
8-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	0	Northeast				Poecile hudsonica	6	
8-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
8-Oct-22	Point Count	CP	ML 2	7:46	10	DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
8-Oct-22	Point Count	CP				RUGR	Ruffed Grouse	1	drumming	0					Bonasa umbellus	7	
8-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	0					Turdus migratorius	6	
8-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
8-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
8-Oct-22	Point Count	CP	ML 3	8:06	10												
8-Oct-22	Point Count	CP	ML 4	8:26	10	GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
8-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	singing	0					Poecile atricapilla	6	
8-Oct-22	Point Count	CP				HETH	Hermit Thrush	2	singing	0					Catharus guttatus	6	
8-Oct-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	singing	0					Corthylio calendula	6	
8-Oct-22	Point Count	CP				CAJA	Canada Jay	2	calling	100	East				Perisoreus canadensis	6	
8-Oct-22	Point Count	CP				WTSP	White-throated Sparrow	2	calling	0					Zonotrichia albicollis	6	
8-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
8-Oct-22	Point Count	CP	ML 5	8:39	10												
8-Oct-22	Point Count	CP	ML 6	8:56	10	RECR	Red Crossbill	1	singing	100	Northeast				Loxia curvirostra	6	
8-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	0					Dryobates pubescens	7	
8-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
8-Oct-22	Point Count	CP				RTHA	Red-tailed Hawk	1	calling	100	East				Buteo jamaicensis	4	
8-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
8-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
8-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
8-Oct-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
8-Oct-22	Point Count	CP	ML 24	9:09	10	BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
8-Oct-22	Point Count	CP	ML 7	9:29	10	DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
8-Oct-22	Point Count	CP				CAJA	Canada Jay	2	calling	50	Northeast				Perisoreus canadensis	6	
8-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
8-Oct-22	Point Count	CP	ML 13	9:54	10	BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
8-Oct-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
8-Oct-22	Point Count	CP				SPGR	Spruce Grouse	2	flushed	0		Yes			Canachites canadensis	7	
8-Oct-22	Point Count	CP				RUGR	Ruffed Grouse	1	flushed	0		Yes			Bonasa umbellus	7	
8-Oct-22	Point Count	CP	ML 16	10:25	10	BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
8-Oct-22	Point Count	CP				NOFL	Northern Flicker	1	drumming	100					Colaptes auratus	7	
8-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
8-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0				North	Setophaga coronata	6	
8-Oct-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
8-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	0	Southeast				Poecile hudsonica	6	
8-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	50					Dryobates pubescens	7	
8-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
8-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
8-Oct-22	Point Count	CP	ML 15	10:44	10	SPGR	Spruce Grouse	3	flushed	0					Canachites canadensis	7	
8-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
8-Oct-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
8-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
8-Oct-22	Point Count	CP	ML 17	11:00	10	CAJA	Canada Jay	2	singing	100					Perisoreus canadensis	6	
8-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
8-Oct-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
8-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
8-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	passing	0	South		50	Northwest	Spinus tristis	6	
8-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	2	singing	100					Sitta canadensis	6	
8-Oct-22	Point Count	CP	ML 18	11:22	10	BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
8-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	100					Perisoreus canadensis	6	
8-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	100					Catharus guttatus	6	
8-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP	ML 8	7:40	10	BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	1	singing	0					Junco hyemalis	6	
9-Oct-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	



Table 14: Species Data - 2022 Fall Migration Point Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				HETH	Hermit Thrush	2	foraging	0					Catharus guttatus	6	
9-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
9-Oct-22	Point Count	CP	ML 9	7:55	10	DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
9-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
9-Oct-22	Point Count	CP				AMCR	American Crow	1	calling	100					Corvus brachyrhynchos	6	
9-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	100					Dryobates villosus	7	
9-Oct-22	Point Count	CP	ML 10	8:13	10	YRWA	Yellow-rumped Warbler	3	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
9-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	singing	0					Setophaga striata	6	
9-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
9-Oct-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
9-Oct-22	Point Count	CP	ML 11	8:28	10	BCCH	Black-capped Chickadee	3	singing	0					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
9-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
9-Oct-22	Point Count	CP				PIWA	Pine Warbler	1	calling	0					Setophaga pinus	6	
9-Oct-22	Point Count	CP	ML 12	8:42	10	BCCH	Black-capped Chickadee	4	calling	0					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				PUFI	Purple Finch	3	calling	50					Haemorhous purpureus	6	
9-Oct-22	Point Count	CP				BTNW	Black-throated Green Warbler	1	singing	0					Setophaga virens	6	
9-Oct-22	Point Count	CP				COYE	Common Yellowthroat	1	calling	0					Geothlypis trichas	6	
9-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
9-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	passing	0	Northeast		50	West	Spinus tristis	6	
9-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
9-Oct-22	Point Count	CP				CAJA	Canada Jay	2	calling	0	Northeast				Perisoreus canadensis	6	
9-Oct-22	Point Count	CP	ML 14	8:57	10	AMGO	American Goldfinch	2	passing	50	West		50	Southeast	Spinus tristis	6	
9-Oct-22	Point Count	CP				LISP	Lincoln's Sparrow	1	calling	0					Melospiza lincolni	6	
9-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	0					Junco hyemalis	6	
9-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
9-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
9-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	50					Dryobates villosus	7	
9-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	East				Perisoreus canadensis	6	
9-Oct-22	Point Count	CP	ML 20	9:15	10	HETH	Hermit Thrush	2	calling	0					Catharus guttatus	6	
9-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	5	calling	50					Junco hyemalis	6	
9-Oct-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0					Corthylio calendula	6	
9-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	2	calling	0					Setophaga striata	6	
9-Oct-22	Point Count	CP				AMGO	American Goldfinch	2	calling	50					Spinus tristis	6	
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	3	calling	50					Setophaga coronata	6	
9-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	Northwest				Perisoreus canadensis	6	
9-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
9-Oct-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
9-Oct-22	Point Count	CP	ML 23	9:33	10	YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
9-Oct-22	Point Count	CP				SSHA	Sharp-shinned Hawk	1	passing	0	Northeast		50+	Southwest	Accipiter striatus	4	
9-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	5	flushed	0		Yes			Junco hyemalis	6	
9-Oct-22	Point Count	CP	ML 25	9:47	10	DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
9-Oct-22	Point Count	CP				CHSP	Chipping Sparrow	1	calling	0					Spizella passerina	6	
9-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	0	Northeast				Perisoreus canadensis	6	
9-Oct-22	Point Count	CP				AMRO	American Robin	2	passing	0	West		50	Southeast	Turdus migratorius	6	
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				WTSP	White-throated Sparrow	1	calling	0					Zonotrichia albicollis	6	
9-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
9-Oct-22	Point Count	CP	ML 21	10:07	10	DEJU	Dark-eyed Junco	4	calling	0					Junco hyemalis	6	
9-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	1	singing	0	Northeast				Poecile hudsonica	6	
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	3	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
9-Oct-22	Point Count	CP				CORA	Common Raven	1	calling	250					Corvus corax	6	
9-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	0					Dryobates pubescens	7	
9-Oct-22	Point Count	CP	ML 22	10:22	10	RBNU	Red-breasted Nuthatch	2	calling	50					Sitta canadensis	6	
9-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	calling	0					Spinus tristis	6	
9-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	2	calling	0					Setophaga coronata	6	
9-Oct-22	Point Count	CP				WWCR	White-winged Crossbill	1	calling	100					Loxia leucoptera	6	
9-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	100					Setophaga striata	6	
9-Oct-22	Point Count	CP				RECR	Red Crossbill	1	passing	100	East		50+	West	Loxia curvirostra	6	
17-Oct-22	Point Count	CP	ML 1	7:44	10	GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP				AMRO	American Robin	2	calling	100					Turdus migratorius	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50	Southeast				Poecile atricapilla	6	
17-Oct-22	Point Count	CP	ML 2	7:49	10	BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				AMRO	American Robin	3	calling	100					Turdus migratorius	6	

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Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
17-Oct-22	Point Count	CP				CORA	Common Raven	1	calling	250					Corvus corax	6	
17-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	foraging	0					Dryobates pubescens	7	
17-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP	ML 3	8:10	10	BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	4	calling	0					Junco hyemalis	6	
17-Oct-22	Point Count	CP	ML 4	8:24	10	BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP				AMRO	American Robin	2	calling	0					Turdus migratorius	6	
17-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	50	Southeast				Perisoreus canadensis	6	
17-Oct-22	Point Count	CP	ML 5	8:37	10	GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
17-Oct-22	Point Count	CP	ML 6	8:52	10	BLJA	Blue Jay	1	calling	0					Cyanocitta cristata	6	
17-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	2	calling	0					Dryobates villosus	7	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
17-Oct-22	Point Count	CP				HETH	Hermit Thrush	3	calling	0					Catharus guttatus	6	
17-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
17-Oct-22	Point Count	CP	ML 24	9:11	10	BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
17-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	100	West				Perisoreus canadensis	6	
17-Oct-22	Point Count	CP				CORA	Common Raven	1	calling	500					Corvus corax	6	
17-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	100					Turdus migratorius	6	
17-Oct-22	Point Count	CP	ML 7	9:31	10	YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
17-Oct-22	Point Count	CP				PISI	Pine Siskin	1	passing	50	Southwest		50+	East	Spinus pinus	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
17-Oct-22	Point Count	CP	ML 8	9:47	10	CORA	Common Raven	1	calling	100					Corvus corax	6	
17-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
17-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
17-Oct-22	Point Count	CP	ML 13	10:10	10	BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
17-Oct-22	Point Count	CP	ML 16	10:36	10	RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	2	calling	50					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				RNDU	Ring-necked Duck	15	on water	250					Aythya collaris	1	
17-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	3	calling	0					Setophaga coronata	6	
17-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	50	Southeast				Dryobates villosus	7	
17-Oct-22	Point Count	CP	ML 15	10:55	10	SPGR	Spruce Grouse	1	flushed	100					Canachites canadensis	7	
17-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	50					Regulus satrapa	6	
17-Oct-22	Point Count	CP				BLPW	Blackpoll Warbler	6	calling	50					Setophaga striata	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	50					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	1	calling	50					Junco hyemalis	6	
17-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	50					Sitta canadensis	6	
17-Oct-22	Point Count	CP				NOFL	Northern Flicker	1	calling	100					Colaptes auratus	7	
17-Oct-22	Point Count	CP				HETH	Hermit Thrush	1	calling	0					Catharus guttatus	6	
17-Oct-22	Point Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0					Setophaga coronata	6	
17-Oct-22	Point Count	CP	ML 17	11:12	10	SOSP	Song Sparrow	1	calling	0					Melospiza melodia	6	
17-Oct-22	Point Count	CP				SWSP	Swamp Sparrow	1	calling	0					Melospiza georgiana	6	
17-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	100					Poecile atricapilla	6	
17-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	1	calling	0					Dryobates villosus	7	
17-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	50					Dryobates pubescens	7	
17-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	calling	50					Spinus tristis	6	
17-Oct-22	Point Count	CP	ML 18	11:45	10	GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
17-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
20-Oct-22	Point Count	CP	ML 9	7:49	10	DOWO	Downy Woodpecker	1	calling	0	South				Dryobates pubescens	7	
20-Oct-22	Point Count	CP				BRCR	Brown Creeper	1	calling	0					Certhia americana	6	
20-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
20-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				RBNU	Red-breasted Nuthatch	1	calling	0					Sitta canadensis	6	
20-Oct-22	Point Count	CP	ML 10	8:04	10		Blackbird Species	9	passing	100	Northeast		50+	South		6	not grackles
20-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
20-Oct-22	Point Count	CP				CORA	Common Raven	1	singing	250					Corvus corax	6	
20-Oct-22	Point Count	CP	ML 11	8:23	10	BCCH	Black-capped Chickadee	1	singing	50					Poecile atricapilla	6	
20-Oct-22	Point Count	CP	ML 12	8:41	10	BCCH	Black-capped Chickadee	2	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	0	East				Poecile hudsonica	6	
20-Oct-22	Point Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0	East				Corthylio calendula	6	
20-Oct-22	Point Count	CP	ML 14	8:56	10	BCCH	Black-capped Chickadee	5	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
20-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	2	calling	0	West				Poecile hudsonica	6	
20-Oct-22	Point Count	CP	ML 20	9:11	10	SOSP	Song Sparrow	1	foraging	0					Melospiza melodia	6	
20-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	1	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				GCKI	Golden-crowned Kinglet	1	calling	0					Regulus satrapa	6	
20-Oct-22	Point Count	CP				BLJA	Blue Jay	2	calling	100					Cyanocitta cristata	6	



Table 14: Species Data - 2022 Fall Migration Point Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Behaviour	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
20-Oct-22	Point Count	CP	ML 23	9:27	10	PIWO	Pileated Woodpecker	1	calling	100					Dryocopus pileatus	7	
20-Oct-22	Point Count	CP				AMCR	American Crow	2	singing	100					Corvus brachyrhynchos	6	
20-Oct-22	Point Count	CP				BLJA	Blue Jay	1	calling	100					Cyanocitta cristata	6	
20-Oct-22	Point Count	CP				#N/A	Orange-crowned Warbler	1	calling	0							
20-Oct-22	Point Count	CP				AMGO	American Goldfinch	1	singing	50					Spinus tristis	6	
20-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				CAJA	Canada Jay	1	calling	50					Perisoreus canadensis	6	
20-Oct-22	Point Count	CP				AMRO	American Robin	1	calling	50					Turdus migratorius	6	
20-Oct-22	Point Count	CP	ML 25	9:44	10	DEJU	Dark-eyed Junco	5	calling	0					Junco hyemalis	6	
20-Oct-22	Point Count	CP				CAJA	Canada Jay	2	calling	50	Northeast				Perisoreus canadensis	6	
20-Oct-22	Point Count	CP				PAWA	Palm Warbler	1	calling	0					Setophaga palmarum	6	
20-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP	ML 21	10:17	10	GCKI	Golden-crowned Kinglet	2	calling	0					Regulus satrapa	6	
20-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	3	calling	0					Junco hyemalis	6	
20-Oct-22	Point Count	CP				BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	3	calling	0	South				Poecile hudsonica	6	
20-Oct-22	Point Count	CP				CORA	Common Raven	1	calling	0					Corvus corax	6	
20-Oct-22	Point Count	CP	ML 22	10:34	10	BCCH	Black-capped Chickadee	3	calling	0					Poecile atricapilla	6	
20-Oct-22	Point Count	CP				DEJU	Dark-eyed Junco	2	calling	0					Junco hyemalis	6	
20-Oct-22	Point Count	CP				HAWO	Hairy Woodpecker	1	singing	100					Dryobates villosus	7	
20-Oct-22	Point Count	CP				RECR	Red Crossbill	5	passing	50	East		50	Southwest	Loxia curvirostra	6	
20-Oct-22	Point Count	CP				DOWO	Downy Woodpecker	1	calling	0					Dryobates pubescens	7	
20-Oct-22	Point Count	CP				BOCH	Boreal Chickadee	1	calling	0	West				Poecile hudsonica	6	

Table 15: Species Summary - 2022 Fall Migration Diurnal Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Pipit	Anthus rubescens	6	Not Listed	Not Listed	Not Listed	S4M	1
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	3
Bald Eagle	Haliaeetus leucocephalus	4	Not Listed	Not at Risk	Not Listed	S5	7
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	10
Blackpoll Warbler	Dendroica striata	6	Not Listed	Not Listed	Not Listed	S5	3
Common Grackle	Quiscalus quiscula	6	Not Listed	Not Listed	Not Listed	S5B	2
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	8
Gray Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	3
Greater Yellowlegs	Tringa melanoleuca	2	Not Listed	Not Listed	Not Listed	S3B,S4M	2
Hermit Thrush	Catharus guttatus	6	Not Listed	Not Listed	Not Listed	S5B	2
Merlin	Falco columbarius	4	Not Listed	Not at Risk	Not Listed	S5B	1
Osprey	Pandion haliaetus	4	Not Listed	Not Listed	Not Listed	S4S5B,S5M	1
Palm Warbler	Dendroica palmarum	6	Not Listed	Not Listed	Not Listed	S5	2
Purple Finch	Carpodacus purpureus	6	Not Listed	Not Listed	Not Listed	S5	1
Ruby-crowned Kinglet	Regulus calendula	6	Not Listed	Not Listed	Not Listed	S5	2
Red Crossbill	Loxia curvirostra	6	Not Listed	Not Listed	Not Listed	S3, S4	8
Red-tailed Hawk	Buteo jamaicensis	4	Not Listed	Not at Risk	Not Listed	S5	1
Sharp-shinned Hawk	Accipiter striatus	4	Not Listed	Not at Risk	Not Listed	S5	3
Yellow-rumped Warbler	Dendroica coronata	6	Not Listed	Not Listed	Not Listed	S5	6
Small Raptor							1
Large Raptor							1
Passerine Species		6					1
Warbler Species		6					1

Table 16: Species Data - 2022 Fall Migration Diurnal Count Data - Melvin Lake Wind Farm Project

Date	Survey Type	Observer	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	behaviour/breeding code	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Behaviour/Comments Block counting (BC)
21-Sep-22	Diurnal Count	CP	hawk 1	11:06	30	RECR	Red Crossbill	4	passing	50	Southwest		50	North	Loxia curvirostra	6	
21-Sep-22	Diurnal Count	CP				BLJA	Blue Jay	6	passing	0	West		50	East	Cyanocitta cristata	6	
21-Sep-22	Diurnal Count	CP					Warbler Species	1	passing	0	Northeast		50	South			
21-Sep-22	Diurnal Count	CP	hawk 1	11:36	30	COGR	Common Grackle	2	passing	100	West		50+	North	Quiscalus quiscula	6	
21-Sep-22	Diurnal Count	CP				AMRO	American Robin	1	passing	500	Southeast		50+	East	Turdus migratorius	6	
21-Sep-22	Diurnal Count	CP				AMRO	American Robin	1	passing	500	Southeast				Turdus migratorius	6	
21-Sep-22	Diurnal Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0		Yes			Corthylio calendula	6	eventually stooped into woods
21-Sep-22	Diurnal Count	CP	hawk 1	12:06	30	AMPI	American Pipit	1	passing	0	Northeast				Anthus rubescens	6	
21-Sep-22	Diurnal Count	CP						1				Yes					subadult
21-Sep-22	Diurnal Count	CP				CORA	Common Raven	1	passing	1000	Southwest				Corvus corax	6	
21-Sep-22	Diurnal Count	CP	hawk 1	12:36	30												
21-Sep-22	Diurnal Count	CP	hawk 1	13:06	30	CORA	Common Raven	1	passing	100	Northeast		250	Southwest	Corvus corax	6	
21-Sep-22	Diurnal Count	CP	hawk 1	13:36	30	CORA	Common Raven	1	passing	1000	South		100	East	Corvus corax	6	
21-Sep-22	Diurnal Count	CP	hawk 1	14:06	30	SSHA	Sharp-shinned Hawk	2	passing	1000	North		100	Southwest	Accipiter striatus	4	
21-Sep-22	Diurnal Count	CP				RECR	Red Crossbill	1	passing	0	Northeast		50	Southwest	Loxia curvirostra	6	
8-Oct-22	Diurnal Count	CP	hawk 1	12:05	30	MERL	Merlin	1	passing	1000	Southwest		50	South	Falco columbarius	4	dove into valley
8-Oct-22	Diurnal Count	CP	hawk 1	12:35	30	HETH	Hermit Thrush	2	singing	0		Yes			Catharus guttatus	6	
8-Oct-22	Diurnal Count	CP				BLPW	Blackpoll Warbler	1	calling	0		Yes			Setophaga striata	6	
8-Oct-22	Diurnal Count	CP				PAWA	Palm Warbler	1	calling	0		Yes			Setophaga palmarum	6	
8-Oct-22	Diurnal Count	CP				YRWA	Yellow-rumped Warbler	1	calling	0		Yes			Setophaga coronata	6	
8-Oct-22	Diurnal Count	CP				AMRO	American Robin	1	passing	250	South		50	West	Turdus migratorius	6	
8-Oct-22	Diurnal Count	CP				BLJA	Blue Jay	1	passing	500	Southwest		50+	East	Cyanocitta cristata	6	
8-Oct-22	Diurnal Count	CP	hawk 1	13:05	30	YRWA	Yellow-rumped Warbler	3	passing	0	West		50	Southeast	Setophaga coronata	6	
8-Oct-22	Diurnal Count	CP	hawk 1	13:35	30	CAJA	Canada Jay	1	calling	0		Yes			Perisoreus canadensis	6	
8-Oct-22	Diurnal Count	CP	hawk 1	14:05	30	GRYE	Greater Yellowlegs	2	passing	250	Northwest		50+	South	Tringa melanoleuca	2	
8-Oct-22	Diurnal Count	CP				BLJA	Blue Jay	2	passing	100	Southwest		50	Northeast	Cyanocitta cristata	6	
8-Oct-22	Diurnal Count	CP				RCKI	Ruby-crowned Kinglet	1	calling	0		Yes			Corthylio calendula	6	
8-Oct-22	Diurnal Count	CP	hawk 1	14:35	30												
9-Oct-22	Diurnal Count	CP	hawk 1	10:50	30	SSHA	Sharp-shinned Hawk	1	passing	1000	Southwest		50+	West	Accipiter striatus	4	
9-Oct-22	Diurnal Count	CP				BLJA	Blue Jay	1	passing	250	Northeast		50	Northwest	Cyanocitta cristata	6	
9-Oct-22	Diurnal Count	CP	hawk 1	11:20	30	RTHA	Red-tailed Hawk	1	soaring	500	Southwest		50+		Buteo jamaicensis	4	
9-Oct-22	Diurnal Count	CP					Passerine Species	1	passing	500	Northeast		50+	West			
9-Oct-22	Diurnal Count	CP	hawk 1	11:50	30	BLPW	Blackpoll Warbler	1	calling	0		Yes			Setophaga striata	6	
9-Oct-22	Diurnal Count	CP				PAWA	Palm Warbler	1	calling	0		Yes			Setophaga palmarum	6	
9-Oct-22	Diurnal Count	CP				PUFI	Purple Finch	1	passing	100	Southwest		100+	North	Haemorhous purpureus	6	
9-Oct-22	Diurnal Count	CP				BAEA	Bald Eagle	1	soaring	2000	North		100+		Haliaeetus leucocephalus	4	
9-Oct-22	Diurnal Count	CP	hawk 1	12:20	30	BAEA	Bald Eagle	1	soaring	500	Northeast		500	South	Haliaeetus leucocephalus	4	
9-Oct-22	Diurnal Count	CP				BAEA	Bald Eagle	1	soaring	500	Northwest		50+		Haliaeetus leucocephalus	4	
9-Oct-22	Diurnal Count	CP				RECR	Red Crossbill	3	passing	50	Northeast		50+	West	Loxia curvirostra	6	
9-Oct-22	Diurnal Count	CP				YRWA	Yellow-rumped Warbler	1	passing	0	South		50	North	Setophaga coronata	6	
9-Oct-22	Diurnal Count	CP					Small Raptor	1	soaring	2000	Southwest		500	South			
17-Oct-22	Diurnal Count	CP	hawk 1	12:31	30												
17-Oct-22	Diurnal Count	CP	hawk 1	13:01	30	OSPR	Osprey	1	soaring	1000	Northwest		250	South	Pandion haliaetus	4	
17-Oct-22	Diurnal Count	CP				BAEA	Bald Eagle	1	soaring	1000	Northwest		250		Haliaeetus leucocephalus	4	
17-Oct-22	Diurnal Count	CP	hawk 1	13:23	30	CAJA	Canada Jay	1	calling	0					Perisoreus canadensis	6	
20-Oct-22	Diurnal Count	CP	hawk 1	11:08	30	CORA	Common Raven	2	passing	250	Southeast		50	Southwest	Corvus corax	6	
20-Oct-22	Diurnal Count	CP				CORA	Common Raven	1	passing	100	Northwest		50	South	Corvus corax	6	
20-Oct-22	Diurnal Count	CP				BLPW	Blackpoll Warbler	1	calling	0					Setophaga striata	6	
20-Oct-22	Diurnal Count	CP	hawk 1	11:38	30	CAJA	Canada Jay	1	calling	50					Perisoreus canadensis	6	
20-Oct-22	Diurnal Count	CP				BAEA	Bald Eagle	1	soaring	2000	Southwest		50+	South	Haliaeetus leucocephalus	4	
20-Oct-22	Diurnal Count	CP	hawk 1	12:08	30	BAEA	Bald Eagle	1	soaring	1000	Southwest		50+		Haliaeetus leucocephalus	4	
20-Oct-22	Diurnal Count	CP					Large Raptor	1	soaring	2000	South		100	South			
20-Oct-22	Diurnal Count	CP				CORA	Common Raven	2	passing	500	South		50+	Northwest	Corvus corax	6	
20-Oct-22	Diurnal Count	CP	hawk 1	12:38	30	YRWA	Yellow-rumped Warbler	1	calling						Setophaga coronata	6	
20-Oct-22	Diurnal Count	CP	hawk 1	13:08	30	BAEA	Bald Eagle	1	soaring	2000	North		100	West	Haliaeetus leucocephalus	4	

Table 17: Species Summary - 2024 Winter Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	15
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	7
Bald eagle	<i>Haliaeetus leucocephalus</i>	4	Not Listed	Not at Risk	Not Listed	S5	2
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	11
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	6
Canada goose	<i>Branta canadensis</i>	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	1
Common Grackle	<i>Quiscalus quiscula</i>	6	Not Listed	Not Listed	Not Listed	S5B	6
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	5
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	13
Downy woodpecker	<i>Dryobates pubescens</i>	7	Not Listed	Not Listed	Not Listed	S5	2
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	6
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	2
Merlin	<i>Falco columbarius</i>	4	Not Listed	Not at Risk	Not Listed	S5B	1
Mourning dove	<i>Zenaida macroura</i>	7	Not Listed	Not Listed	Not Listed	S5	1
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	1
Purple Finch	<i>Haemorhous purpureus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	1
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	2
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Winter wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	1

Table 18: Species Data - 2024 Winter Point Count Survey Data - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +										
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC12	08:25	10	COGR	Common grackle	1				Observed Breeding Potential							<i>Quiscalus quiscula</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC12	08:25	10	DEJU	Dark-eyed junco	7	7			Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC12	08:25	10	WIWR	Winter wren	1		1		Observed Breeding Potential							<i>Troglodytes hiemalis</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC13	08:45	10	HAWO	Hairy Woodpecker	1			1	Observed Breeding Potential							<i>Dryobates villosus</i>	7	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC13	08:45	10	NOFL	Northern Flicker	1			1	Observed Breeding Potential							<i>Colaptes auratus</i>	7	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC3	09:05	10	COGR	Common grackle	1	1			Observed Breeding Potential							<i>Quiscalus quiscula</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC19	09:35	10	DOWO	Downy woodpecker	2	2			Observed Breeding Potential							<i>Dryobates pubescens</i>	7	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC19	09:35	10	HAWO	Hairy Woodpecker	1		1		Observed Breeding Potential							<i>Dryobates villosus</i>	7	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC18	10:15	10	CAGO	Canada goose	1			1	Observed Breeding Potential							<i>Branta canadensis</i>	1	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC18	10:15	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC2	10:45	10	BAEA	Bald eagle	1			1	Observed Breeding Potential							<i>Haliaeetus leucocephalus</i>	4	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC2	10:45	10	MODO	Mourning dove	1			1	Observed Breeding Potential							<i>Zenaida macroura</i>	7	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC2	10:45	10	GCKI	Golden crowned kinglet	3	3			Observed Breeding Potential							<i>Regulus satrapa</i>	6	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC1	11:05	10	BAEA	Bald eagle	1			1	Observed Breeding Potential							<i>Haliaeetus leucocephalus</i>	4	
Ben Macneill	Nick Doane	2024-Mar-15	Winter Residency	PC1	11:05	10	AMCR	American Crow	1	1			Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC1	07:37	10	BCCH	Black-capped Chickadee	3		3		Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC1	07:37	10	AMRO	American Robin	1		1		Observed Breeding Potential							<i>Turdus migratorius</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC1	07:37	10	DEJU	Dark-eyed Junco	1			1	Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC1	07:37	10	AMCR	American Crow	2	2			Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC1	07:37	10	RBNU	Red-breasted Nuthatch	1			1	Observed Breeding Potential							<i>Sitta canadensis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC2	07:51	10	BLJA	Blue Jay	1			1	Observed Breeding Potential							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC2	07:51	10	AMRO	American Robin	1			1	Observed Breeding Potential							<i>Turdus migratorius</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC2	07:51	10	DEJU	Dark-eyed Junco	1	1			Possible Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	AMRO	American Robin	1			1	Observed Breeding Potential							<i>Turdus migratorius</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	BLJA	Blue Jay	2		2		Observed Breeding Potential							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	GCKI	Golden-crowned Kinglet	1			1	Observed Breeding Potential							<i>Regulus satrapa</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	DEJU	Dark-eyed Junco	1	1			Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC3	08:08	10	BCCH	Black-capped Chickadee	1			1	Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC22	08:30	10	COGR	Common Grackle	4	4			Possible Breeding Potential							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC22	08:30	10	DEJU	Dark-eyed Junco	1			1	Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC22	08:30	10	BLJA	Blue Jay	1			1	Observed Breeding Potential							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC22	08:30	10	CORA	Common Raven	1			1	Observed Breeding Potential							<i>Corvus corax</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC22	08:30	10	AMCR	American Crow	1		1		Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC15	08:55	10	MERL	Merlin	1			1	Possible Breeding Potential							<i>Falco columbarius</i>	4	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC15	08:55	10	BCCH	Black-capped Chickadee	2		2		Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC15	08:55	10	AMRO	American Robin	1			1	Observed Breeding Potential							<i>Turdus migratorius</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC15	08:55	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC15	08:55	10	PUFI	Purple Finch	1			1	Observed Breeding Potential							<i>Haemorhous purpureus</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC10	10:20	10	BLJA	Blue Jay	1			1	Observed Breeding Potential							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC10	10:20	10	AMCR	American Crow	2		2		Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC10	10:20	10	BCCH	Black-capped Chickadee	2		2		Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC10	10:20	10	RBNU	Red-breasted Nuthatch	1			1	Observed Breeding Potential							<i>Sitta canadensis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC9	10:42	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC9	10:42	10	BCCH	Black-capped Chickadee	1		1		Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC11	11:19	10	DEJU	Dark-eyed Junco	1		1	1	Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC11	11:19	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC11	11:19	10	BLJA	Blue Jay	1			1	Observed Breeding Potential							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-20	Winter Residency	PC11	11:19	10	CORA	Common Raven	2		2		Possible Breeding Potential							<i>Corvus corax</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC55	08:15	10	AMRO	American Robin	3				Observed Breeding Potential			3				<i>Turdus migratorius</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC55	08:15	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC55	08:15	10	SOSP	Song Sparrow	1			1	Possible Breeding Potential							<i>Melospiza melodia</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC8	09:35	10	AMCR	American Crow	2			2	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC56	09:28	10	CORA	Common Raven	2			2	Observed Breeding Potential							<i>Corvus corax</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC57	09:59	10	GCKI	Golden-crowned Kinglet	2	2			Observed Breeding Potential							<i>Regulus satrapa</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC57	09:59	10	BCCH	Black-capped Chickadee	1	1			Observed Breeding Potential							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC4	10:41	10	AMCR	American Crow	1			1	Observed Breeding Potential							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC4	10:41	10	DEJU	Dark-eyed Junco	1	1			Observed Breeding Potential							<i>Junco hyemalis</i>	6	
Carrie Jardine	Tom Bruce	2024-Mar-22	Winter Residency	PC58	10:59	10	BCCH	Black-capped Chickadee	1		1		Observed Breeding Potential							<i>Poecile atricapilla</i>	6	

Table 19: Species Summary - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Alder Flycatcher	<i>Empidonax alnorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
American Black Duck	<i>Anas rubripes</i>	1	Not Listed	Not Listed	Not Listed	S5B,S5N	4
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	23
American Goldfinch	<i>Spinus tristis</i>	6	Not Listed	Not Listed	Not Listed	S5	28
American Kestrel	<i>Falco sparverius</i>	4	Not Listed	Not Listed	Not Listed	S3B,S4S5M	2
American Redstart	<i>Setophaga ruticilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	8
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	73
Bald Eagle	<i>Haliaeetus leucocephalus</i>	4	Not Listed	Not at Risk	Not Listed	S5	1
Bay-breasted Warbler	<i>Setophaga castanea</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	6
Belted Kingfisher	<i>Megaceryle alcyon</i>	3	Not Listed	Not Listed	Not Listed	S4S5B	6
Black-and-white Warbler	<i>Mniotilta varia</i>	6	Not Listed	Not Listed	Not Listed	S5B	20
Blackburnian Warbler	<i>Setophaga fusca</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	3
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	53
Blackpoll Warbler	<i>Setophaga striata</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5M	4
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	6	Not Listed	Not Listed	Not Listed	S5	8
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	33
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	27
Blue-headed Vireo	<i>Vireo solitarius</i>	6	Not Listed	Not Listed	Not Listed	S5B	21
Boreal Chickadee	<i>Poecile hudsonica</i>	6	Not Listed	Not Listed	Not Listed	S3	1
Brown Creeper	<i>Certhia americana</i>	6	Not Listed	Not Listed	Not Listed	S5	2
Canada Goose	<i>Branta canadensis</i>	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	20
Canada Warbler	<i>Cardellina canadensis</i>	6	Threatened	Special Concern	Endangered	S3B	1
Canada Jay	<i>Perisoreus canadensis</i>	6	Not Listed	Not Listed	Not Listed	S3	1
Cedar Waxwing	<i>Bombycilla cedrorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	6	Not Listed	Not Listed	Not Listed	S5B	10
Chipping Sparrow	<i>Spizella passerina</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	16
Common Grackle	<i>Quiscalus quiscula</i>	6	Not Listed	Not Listed	Not Listed	S5B	17
Common Loon	<i>Gavia immer</i>	3	Not Listed	Not at Risk	Not Listed	S4B	10
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	39
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	66
Downy Woodpecker	<i>Dryobates pubescens</i>	7	Not Listed	Not Listed	Not Listed	S5	9
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	6	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	1
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	15
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	11
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	61
Lesser Scaup	<i>Aythya affinis</i>	1	Not Listed	Not Listed	Not Listed	SUM	1
Magnolia Warbler	<i>Setophaga magnolia</i>	6	Not Listed	Not Listed	Not Listed	S5B	24
Mourning Dove	<i>Zenaida macroura</i>	7	Not Listed	Not Listed	Not Listed	S5	6
Nashville Warbler	<i>Leiothlypis ruficapilla</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	3

Table 19: Species Summary - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Northern Cardinal	<i>Cardinalis cardinalis</i>	6	Not Listed	Not Listed	Not Listed	S4	1
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	48
Northern Goshawk	<i>Accipiter gentilis</i>	4	Not Listed	Not at Risk	Not Listed	S3S4	2
Northern Parula	<i>Setophaga americana</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Olive-sided Flycatcher	<i>Contopus cooperi</i>	6	Special Concern	Special Concern	Threatened	S3B	8
Osprey	<i>Pandion haliaetus</i>	4	Not Listed	Not Listed	Not Listed	S4S5B,S5M	1
Ovenbird	<i>Seiurus aurocapilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	10
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	64
Pileated Woodpecker	<i>Dryocopus pileatus</i>	7	Not Listed	Not Listed	Not Listed	S5	5
Pine Grosbeak	<i>Pinicola enucleator</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5N,S5M	3
Pine Siskin	<i>Spinus pinus</i>	6	Not Listed	Not Listed	Not Listed	S3	5
Purple Finch	<i>Haemorhous purpureus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	19
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	18
Red-eyed Vireo	<i>Vireo olivaceus</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	3
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	6	Not Listed	Not Listed	Not Listed	S4B	2
Ring-necked Pheasant	<i>Phasianus colchicus</i>	7	Not Listed	Not Listed	Not Listed	SNA	1
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	7
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Ruffed Grouse	<i>Bonasa umbellus</i>	7	Not Listed	Not Listed	Not Listed	S5	4
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	16
Swainson's Thrush	<i>Catharus ustulatus</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	4
Swamp Sparrow	<i>Melospiza georgiana</i>	6	Not Listed	Not Listed	Not Listed	S5B	9
Turkey Vulture	<i>Cathartes aura</i>	4	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	66
White-winged Crossbill	<i>Loxia leucoptera</i>	6	Not Listed	Not Listed	Not Listed	S4S5	4
Wilson's Warbler	<i>Cardellina pusilla</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5M	3
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	68
Yellow Warbler	<i>Setophaga petechia</i>	6	Not Listed	Not Listed	Not Listed	S5B	5
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	7
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	45



Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	BCCH	Black-capped Chickadee	4	3	1		Possible	S							<i>Poecetes atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	COGR	Common Grackle	2	0			Observed	X			2				<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	HETH	Hermit Thrush	3	1	2		Possible	S							<i>Catherus guttatus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	NOFL	Northern Flicker	4	3	0	1	Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	DEJU	Dark-eyed Junco	3	2	1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	GCKI	Golden-crowned Kinglet	1	1			Possible	H							<i>Regulus satrapa</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	AMRO	American Robin	3	2	1		Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	WIWR	Winter Wren	1	1			Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	PUFI	Purple Finch	2	2			Possible	X							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	AMCR	American Crow	1	1		1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	PAWA	Palm Warbler	1	1			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC07	06:31	10	WTSW	White-throated Sparrow	1	1			Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	NOFL	Northern Flicker	6	5	1		Observed	X							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	AMRO	American Robin	3		2	1	Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	PIGR	Pine Grosbeak	1	1			Possible	S							<i>Pinicola enucleator</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	HETH	Hermit Thrush	2	1	1		Possible	H							<i>Catherus guttatus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	PUFI	Purple Finch	1	1			Possible	S							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	AMCR	American Crow	1	1			Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	WTSW	White-throated Sparrow	1	1		1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	GCKI	Golden-crowned Kinglet	1	1			Observed	X							<i>Regulus satrapa</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	BCCH	Black-capped Chickadee	1	1			Possible	H							<i>Poecetes atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	BLJA	Blue Jay	1	1		1	Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	AMGO	American Goldfinch	1	1			Observed	X			1				<i>Carduelis tristis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	WIWR	Winter Wren	1	1		1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC08	06:52	10	COGR	Common Grackle	1	1			Observed	X							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	COGR	Common Grackle	1	1			Possible	H			1				<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	NOFL	Northern Flicker	1	1		1	Observed	X							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	BCCH	Black-capped Chickadee	3	3			Possible	H							<i>Poecetes atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	BLJA	Blue Jay	1	1			Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	RBNU	Red-breasted Nuthatch	1	1			Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	AMRO	American Robin	2	2			Possible	H							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	SWSP	Swamp Sparrow	1	1			Possible	S							<i>Melospiza georgiana</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	PUFI	Purple Finch	1	1			Possible	S							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	WIWR	Winter Wren	1	1		1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	AMGO	American Goldfinch	1	1			Observed	X			1				<i>Carduelis tristis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	AMCR	American Crow	1	1		0	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC09	07:16	10	NOGO	Northern Goshawk	1	1			Observed	X							<i>Accipiter gentilis</i>	4	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	ALFL	Alder Flycatcher	1	1			Possible	S							<i>Empidonax alnorum</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	NOFL	Northern Flicker	3	3			Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	AMRO	American Robin	4	3	1		Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	AMCR	American Crow	1	1		1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	PIGR	Pine Grosbeak	1	1			Possible	H							<i>Pinicola enucleator</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	PUFI	Purple Finch	1	1			Possible	S							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	WIWR	Winter Wren	1	1		1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	DEJU	Dark-eyed Junco	1	1			Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	BCCH	Black-capped Chickadee	3	2	1		Possible	H							<i>Poecetes atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	CHSP	Chipping Sparrow	2	1	1		Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	HETH	Hermit Thrush	1	1			Possible	H							<i>Catherus guttatus</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	SWSP	Swamp Sparrow	1	1			Possible	S							<i>Melospiza georgiana</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC10	07:39	10	COGR	Common Grackle	1	1			Possible	H							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	RTHU	Ruby-throated Hummingbird	1	0			Observed	X							<i>Archilochus colubris</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	CAGO	Canada Goose	2	1			Observed	X							<i>Branta canadensis</i>	2	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	DEJU	Dark-eyed Junco	1	1			Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	BCCH	Black-capped Chickadee	3	1	2		Possible	S							<i>Poecetes atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	WIWR	Winter Wren	2	1		2	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	SWSP	Swamp Sparrow	1	1		1	Possible	S							<i>Melospiza georgiana</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	AMRO	American Robin	1	1			Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	AMCR	American Crow	1	1		1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	PAWA	Palm Warbler	2	2			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC11	08:00	10	POWO	Downy Woodpecker	1	1			Possible	S							<i>Picoides pubescens</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC12	08:42	10	WIWR	Winter Wren	2	1	1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC12	08:42	10	RUGR	Ruffed Grouse	1	1			Possible	S							<i>Bonasa umbellus</i>	7	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC12	08:42	10	PAWA	Palm Warbler	3	1	2		Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	18-Apr-24	Spring Migration	PC12	08:42	10	AMCR	American Crow	2	2		2											

Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	SOSP	Song Sparrow	2	1			Possible	S							<i>Melospiza melodia</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	PAWA	Palm Warbler	3	2	1		Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	HETH	Hermitt Thrush	2				Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	AMRO	American Robin	4	2			Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	NOFL	Northern Flicker	2				Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	PIWO	Pileated Woodpecker	2				Possible	S		1					<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	COLO	Common Loon	1				Possible	H							<i>Gavia immer</i>	3	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	RBNJ	Red-breasted Nuthatch	1				Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	NOGO	Northern Goshawk	1	1			Observed	X							<i>Accipiter gentilis</i>	4	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC14	06:43	10	PIGR	Pine Grosbeak	1			1	Possible	H							<i>Pinicola enucleator</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	AMRO	American Robin	5	2		1	Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	BEKI	Belted Kingfisher	1			2	Observed	X							<i>Megasceryle alcyon</i>	3	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	AMCR	American Crow	2			2	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	RIFH	Ring-necked Pheasant	1			1	Possible	S							<i>Phasianus colchicus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	PAWA	Palm Warbler	1	1			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	MODD	Mourning Dove	1			1	Possible	S							<i>Zenaidra macroura</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	BCCH	Black-capped Chickadee	2			2	Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	RBNJ	Red-breasted Nuthatch	1			1	Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	DEJU	Dark-eyed Junco	2	2			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	WIWR	Winter Wren	1			1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	CAGO	Canada Goose	3				Observed	X					3		<i>Branta canadensis</i>	1	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	OSFL	Olive-sided Flycatcher	2			1	Possible	S							<i>Contopus cooperi</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	DOWO	Downy Woodpecker	2	1		1	Possible	H							<i>Picoides pubescens</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	AMGO	American Goldfinch	1				Possible	H						1	<i>Carduelis tristis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	NOFL	Northern Flicker	1			1	Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC13	07:19	10	COLO	Common Loon	1			1	Observed	X							<i>Gavia immer</i>	3	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	BLJA	Blue Jay	2			1	Possible	S							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	PAWA	Palm Warbler	1	1			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	COLO	Common Loon	1			1	Observed	X							<i>Gavia immer</i>	3	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	HETH	Hermitt Thrush	2			1	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	WWCR	White-winged Crossbill	1				Observed	X						1	<i>Loxia leucoptera</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	PUFI	Purple Finch	1			1	Possible	S							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	DEJU	Dark-eyed Junco	1	1			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	RWBK	Red-winged Blackbird	1			1	Observed	X							<i>Agelaius phoeniceus</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	WIWR	Winter Wren	1			1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	NOFL	Northern Flicker	2			1	Observed	X							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	AMRO	American Robin	1	1			Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	CAGO	Canada Goose	1			1	Observed	X							<i>Branta canadensis</i>	1	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	BCCH	Black-capped Chickadee	1			1	Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	CORA	Common Raven	1			1	Observed	X							<i>Corvus corax</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	AMGO	American Goldfinch	1				Observed	X						1	<i>Carduelis tristis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC17	07:55	10	BAEA	Bald Eagle	1			1	Observed	X							<i>Haliaeetus leucocephalus</i>	4	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	DEJU	Dark-eyed Junco	2	2			Possible	S,H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	RBNJ	Red-breasted Nuthatch	1			1	Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	BCCH	Black-capped Chickadee	5	2		3	Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	PAWA	Palm Warbler	5	3		1	Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	CHSP	Chipping Sparrow	1				Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	ALFL	Alder Flycatcher	1			1	Possible	S							<i>Empidonax alnorum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	SOSP	Song Sparrow	1			1	Possible	H							<i>Melospiza melodia</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC04	09:31	10	AMGO	American Goldfinch	1			1	Possible	H							<i>Carduelis tristis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	COGR	Common Grackle	1			1	Observed	X							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	PAWA	Palm Warbler	2	1			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	DOWO	Downy Woodpecker	1			1	Observed	X							<i>Picoides pubescens</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	DEJU	Dark-eyed Junco	2	2			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	AMCR	American Crow	1			1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	BCCH	Black-capped Chickadee	1			1	Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC03	09:54	10	SOSP	Song Sparrow	1	1			Possible	H							<i>Melospiza melodia</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	RBNJ	Red-breasted Nuthatch	1			1	Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	COGR	Common Grackle	1			1	Possible	H							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	DEJU	Dark-eyed Junco	1			1	Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	ABDU	American Black Duck	2			2	Probable	P							<i>Anas rubripes</i>	1	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	BRCR	Brown Creeper	1	1			Possible	S							<i>Certhia americana</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC01	10:08	10	BCCH	Black-capped Chickadee	2			2	Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Spring Migration	PC02	10:31	10	WIWR	Winter Wren	2	2			Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Ben MacNeill																						

Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	BEKI	Belted Kingfisher	1				Possible	S							Megasceryle alcyon	3	
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	DOWO	Downy Woodpecker	1				Possible	S							Picoides pubescens	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	NOFL	Northern Flicker	2				Possible	S							Colaptes auratus	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	RBNJ	Red-breasted Nuthatch	1				Possible	S							Sitta canadensis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	BHVI	Blue-headed Vireo	1				Possible	S							Vireo solitarius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC17	06:41	10	DEJU	Dark-eyed Junco	1				Possible	S							Junco hyemalis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	AMRO	American Robin	1				Possible	S							Turdus migratorius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	DOWO	Downy Woodpecker	1				Possible	S							Picoides pubescens	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	WTSP	White-throated Sparrow	2				Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	WIWR	Winter Wren	2	1			Possible	S							Troglodytes troglodytes	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	PAWA	Palm Warbler	2				Possible	S							Dendroica palmarum	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	MODD	Mourning Dove	3				Possible	S							Zenaidura macroura	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	BCCH	Black-capped Chickadee	2		2		Possible	S							Poecile atricapilla	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	AMGO	American Goldfinch	2				Possible	S							Carduelis tristis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	HETH	Hermit Thrush	2		2		Possible	S							Catharus guttatus	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	DEJU	Dark-eyed Junco	1		1		Possible	S							Junco hyemalis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	BLJA	Blue Jay	1		1		Possible	S							Cyanocitta cristata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	AMCR	American Crow	1		1		Possible	S							Turdus migratorius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	YRWA	Yellow-rumped Warbler	1		1		Possible	S							Dendroica coronata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	HAWO	Hairy Woodpecker	1		1		Possible	S							Leuconotopicus villosus	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	BHVI	Blue-headed Vireo	1		1		Possible	S							Vireo solitarius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC16	07:06	10	RBNJ	Red-breasted Nuthatch	1		1		Possible	S							Sitta canadensis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	WTSP	White-throated Sparrow	2	1	1	0	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	YRWA	Yellow-rumped Warbler	1	1	1	1	Possible	S							Dendroica coronata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	RCKI	Ruby-crowned Kinglet	1		0	0	Possible	S							Regulus calendula	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	AMRO	American Robin	2		2	0	Possible	S							Turdus migratorius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	HETH	Hermit Thrush	1		1	0	Possible	S							Catharus guttatus	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	DEJU	Dark-eyed Junco	4	3	1	1	Possible	S							Junco hyemalis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	BCCH	Black-capped Chickadee	1	1	1	1	Possible	S							Poecile atricapilla	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	WIWR	Winter Wren	1		1	0	Possible	S							Troglodytes troglodytes	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC04	08:40	10	PAWA	Palm Warbler	1		1	0	Possible	S							Dendroica palmarum	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	BTNW	Black-throated Green Warbler	1		0	0	Possible	S							Setophaga virens	6	6
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	PAWA	Palm Warbler	2	1	1	1	Possible	S							Dendroica palmarum	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	CHSP	Chipping Sparrow	1	0	0	0	Possible	S							Spizella passerina	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	PUFI	Purple Finch	1	1	1	1	Possible	S							Carpodacus purpureus	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	NOFL	Northern Flicker	1		1	1	Observed	X							Colaptes auratus	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	YRWA	Yellow-rumped Warbler	1		1	1	Possible	S							Dendroica coronata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	BCCH	Black-capped Chickadee	1		1	1	Possible	S							Poecile atricapilla	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	BHVI	Blue-headed Vireo	1		1	1	Possible	S							Vireo solitarius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	WTSP	White-throated Sparrow	2		2	2	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	RCKI	Ruby-crowned Kinglet	1		1	1	Possible	S							Regulus calendula	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	HETH	Hermit Thrush	3		1	2	Possible	S							Catharus guttatus	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC03	08:53	10	BAWW	Black-and-white Warbler	1		1	1	Possible	S							Mniotilta varia	6	6
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	NOFL	Northern Flicker	0		0	0	Possible	S							Colaptes auratus	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	YRWA	Yellow-rumped Warbler	4	2	2	2	Possible	S							Dendroica coronata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	WIWR	Winter Wren	2	1	1	1	Possible	S							Troglodytes troglodytes	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	HETH	Hermit Thrush	0		0	0	Possible	S							Catharus guttatus	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	LESC	Lesser Scaup	1		1	1	Observed	X							Aythya affinis	6	1
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	DEJU	Dark-eyed Junco	1	1	1	1	Possible	S							Junco hyemalis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	SOSP	Song Sparrow	1		1	1	Possible	S							Melospiza melodia	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	RCKI	Ruby-crowned Kinglet	1		1	1	Possible	S							Regulus calendula	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	ABDU	American Black Duck	2		2	2	Possible	H							Anas rubripes	6	1
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	AMGO	American Goldfinch	1		1	1	Possible	S							Carduelis tristis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	GCKI	Golden-crowned Kinglet	1		1	1	Possible	S							Regulus satrapa	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	CAGO	Canada Goose	1		1	1	Possible	H							Branta canadensis	1	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	HAWO	Hairy Woodpecker	1		1	1	Possible	S							Leuconotopicus villosus	7	
Carrie Jardine	Other	7-May-24	Spring Migration	PC01	09:14	10	WTSP	White-throated Sparrow	1		1	1	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	AMRO	American Robin	4		3	3	Possible	S							Turdus migratorius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	AMCR	American Crow	1		1	1	Possible	S							Corvus brachyrhynchos	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	YRWA	Yellow-rumped Warbler	2		2	2	Possible	S							Dendroica coronata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	WTSP	White-throated Sparrow	1		1	1	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	SOSP	Song Sparrow	1		1	1	Possible	S							Melospiza melodia	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	BHVI	Blue-headed Vireo	1		0	1	Possible	S							Vireo solitarius	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	BAWW	Black-and-white Warbler	2		2	2	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	BLJA	Blue Jay	5		2	1	Possible	S							Cyanocitta cristata	6	
Carrie Jardine	Other	7-May-24	Spring Migration	PC02	09:33	10	BCCH	Black-capped Chickadee	1		1	1	Possible	S							Poec		



Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
										<50 m	50 - 100 m	100 m +												
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	AMRO	American Robin	1				Possible	S							<i>Turdus migratorius</i>	6		
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	AMRO	Blue-headed Vireo	1				Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	YRWA	Yellow-rumped Warbler	1				Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	WIWR	Winter Wren	1				Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	AMGO	American Goldfinch	1		0		Possible	S			1					<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	BAWW	Black-and-white Warbler	1			1	Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	GCKI	Golden-crowned Kinglet	1	1		0	Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	BCCH	Black-capped Chickadee	1	1			Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC09	06:29	10	CSVA	Chestnut-sided Warbler	1				Possible	S								<i>Setophaga pensylvanica</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	AMRO	American Robin	1				Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	WTSP	White-throated Sparrow	2	1		1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	BTNW	Black-throated Green Warbler	1			1	Possible	S								<i>Setophaga virens</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	BAWW	Black-and-white Warbler	1	1			Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	AMGO	American Goldfinch	1				Possible	S								<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	YRWA	Yellow-rumped Warbler	1			1	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	BHVI	Blue-headed Vireo	1	1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	WIWA	Wilson's Warbler	2		1	1	Possible	S								<i>Cardellina pusilla</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	PAWA	Palm Warbler	2	0		2	Probable	P,D,V								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	DEJU	Dark-eyed Junco	1				Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	BLJA	Blue Jay	1				Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	GCKI	Golden-crowned Kinglet	1				Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	BCCH	Black-capped Chickadee	1	0		1	Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	PIWO	Pileated Woodpecker	1			1	Possible	S								<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	AMCR	American Crow	1			0	Possible	S			1					<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	PISI	Pine Siskin	1			1	Possible	S								<i>Spinus pinus</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC10	06:54	10	AMRO	American Robin	1			1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	WTSP	White-throated Sparrow	0				Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	AMGO	American Goldfinch	0				Possible	S								<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	NOFL	Northern Flicker	0				Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	PAWA	Palm Warbler	0				Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	DEJU	Dark-eyed Junco	1	1			Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	AMRO	American Robin	1			1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	BCCH	Black-capped Chickadee	1	1			Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	AMKE	American Kestrel	1			1	Possible	S								<i>Falco sparverius</i>	4	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	SWSP	Swamp Sparrow	2	2			Probable	P,D								<i>Melospiza georgiana</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	PUFI	Purple Finch	1				Possible	S								<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC11	07:13	10	PIWO	Pileated Woodpecker	1			1	Possible	S								<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	WIWR	Winter Wren	0				Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	AMRO	American Robin	1			1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BCCH	Black-capped Chickadee	2	2			Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BLJA	Blue Jay	1	1		1	Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BTNW	Black-throated Green Warbler	2	1		1	Possible	S								<i>Setophaga virens</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BNJU	Brewer's Nuthatch	1				Possible	S								<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	YRWA	Yellow-rumped Warbler	2	1		1	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BAWW	Black-and-white Warbler	1			1	Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	HETH	Hermits Thrush	1			1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	CHSP	Chipping Sparrow	1			1	Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	PUFI	Purple Finch	1				Possible	S								<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	DEJU	Dark-eyed Junco	2	1		1	Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	AMGO	American Goldfinch	1			1	Possible	S								<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	RUGR	Ruffed Grouse	1			1	Possible	S								<i>Bonasa umbellus</i>	7	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	NOFL	Northern Flicker	0				Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	CAGO	Canada Goose	2				Possible	S			2					<i>Branta canadensis</i>	1	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	BLPW	Blackpoll Warbler	1	1			Possible	S								<i>Setophaga striata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	OSPR	Osprey	1			1	Possible	S								<i>Pandion haliaetus</i>	4	
Carrie Jardine	Other	8-May-24	Spring Migration	PC12	08:03	10	NOCA	Northern Cardinal	1			1	Possible	S								<i>Cardinalis cardinalis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	WIWR	Winter Wren	1			1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	DEJU	Dark-eyed Junco	1			1	Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	PAWA	Palm Warbler	2	1		1	Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	NOFL	Northern Flicker	2			2	Possible	S								<i>Colaptes auratus</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	YRWA	Yellow-rumped Warbler	2			1	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	BTNW	Black-throated Green Warbler	2			2	Possible	S								<i>Setophaga virens</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	BLJA	Blue Jay	0				Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	CHSP	Chipping Sparrow	0				Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	CAGO	Canada Goose	2				Observed	X			2					<i>Branta canadensis</i>	1	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	BLPW	Blackpoll Warbler	1			1	Possible	S								<i>Setophaga striata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	WTSP	White-throated Sparrow	1	1			Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	COGR	Common Grackle	1			1	Possible	S								<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	AMRO	American Robin	1			1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	AMGO	American Goldfinch	1				Possible	S								<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC19	08:27	10	RCKI	Ruby-crowned Kinglet	1			1	0	Possible	S							<i>Regulus calendula</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC20	08:46	10	WTSP	White-throated Sparrow	1			1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC20	08:46	10	YRWA	Yellow-rumped Warbler	2			2	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	8-May-24	Spring Migration	PC20	08:46	10	BLJA	Blue Jay	4			1	Possible	S								<i>Cyanocitta cristata</i>	6	

Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 15	06:04	10	COLO	Common Loon	1			1	Possible	S							Gavia immer	3	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 15	06:04	10	UNKN	Unknown	1			1	Possible	S									
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	COYE	Common Yellowthroat	3	1	2		Possible	S							Geothlypis trichas	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	MAWA	Magnolia Warbler	2		2		Possible	S							Setophaga magnolia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	WIWR	Winter Wren	1		1		Possible	S							Troglodytes troglodytes	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	HETH	Hermil Thrush	5	2	3		Possible	S							Catharus guttatus	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	YRWA	Yellow-rumped Warbler	1	1	0		Possible	S							Dendroica coronata	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	WTSP	White-throated Sparrow	4	1	2	1	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	NOFL	Northern Flicker	1	1			Possible	S							Colaptes auratus	7	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	OSFL	Olive-sided Flycatcher	1		1		Possible	S							Contopus cooperi	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	BLBW	Blackburnian Warbler	1	1	0		Possible	S							Setophaga virens	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	GCKI	Golden-crowned Kinglet	1	1			Possible	S							Regulus satrapa	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	BHVI	Blue-headed Vireo	1		1		Possible	S							Vireo solitarius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	AMRO	American Robin	2	1	1		Possible	S							Turdus migratorius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	BEKI	Belted Kingfisher	0				Possible	S							Megasceryle alcyon	3	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	COLO	Common Loon	1				Possible	S							Gavia immer	3	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 14	06:23	10	OVEN	Ovenbird	1		1		Possible	S							Seiurus aurocapilla	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	WTSP	White-throated Sparrow	3	1	2		Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	HAWO	Hairy Woodpecker	1	1			Possible	S							Leucorontopus villosus	7	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	COYE	Common Yellowthroat	2		2		Possible	S							Geothlypis trichas	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	BHVI	Blue-headed Vireo	1		1		Possible	S							Vireo solitarius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	YRWA	Yellow-rumped Warbler	1	1			Possible	S							Dendroica coronata	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	COLO	Common Loon	1		1		Possible	S							Gavia immer	3	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	CHSP	Chipping Sparrow	1	1			Possible	S							Spizella passerina	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	BLJA	Blue Jay	1		1		Possible	S							Cyanocitta cristata	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	MAWA	Magnolia Warbler	2		2		Possible	S							Setophaga magnolia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	BTNW	Black-throated Green Warbler	1	1			Possible	S							Setophaga virens	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	WIWR	Winter Wren	1		1		Possible	S							Troglodytes troglodytes	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	AMRO	American Robin	1		1		Possible	S							Turdus migratorius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	BCCH	Black-capped Chickadee	1		1		Possible	S							Poecile atricapilla	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	CAGO	Canada Goose	1				Possible	S			1				Branta canadensis	1	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	AMCR	American Crow	1		1		Possible	S							Corvus brachyrhynchos	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	YWAR	Yellow Warbler	1	1			Possible	S							Setophaga petechia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	NOFL	Northern Flicker	1		1		Possible	S							Colaptes auratus	7	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	PAWA	Palm Warbler	1		1		Possible	S							Dendroica palmarum	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	DEJU	Dark-eyed Junco	2	1	1		Possible	S							Junco hyemalis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	CSWA	Chestnut-sided Warbler	1	1			Possible	S							Setophaga pensylvanica	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 13	06:41	10	BAWW	Black-and-white Warbler	1		1		Possible	S							Mniotilta varia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	CORA	Common Raven	0				Possible	S							Corvus corax	4	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	AMKE	American Kestrel	0				Possible	S							Falco sparverius	4	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	PAWA	Palm Warbler	0				Possible	S							Dendroica palmarum	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	WTSP	White-throated Sparrow	3		2	1	Possible	S							Zonotrichia albicollis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	AMRO	American Robin	0				Possible	S							Turdus migratorius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	HAWO	Hairy Woodpecker	0				Possible	S							Leucorontopus villosus	7	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	BHVI	Blue-headed Vireo	0				Possible	S							Vireo solitarius	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	YRWA	Yellow-rumped Warbler	1		1		Possible	S							Dendroica coronata	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	MAWA	Magnolia Warbler	2		2		Possible	S							Setophaga magnolia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	COYE	Common Yellowthroat	3		1	2	Possible	S							Geothlypis trichas	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	CHSP	Chipping Sparrow	1	1			Possible	S							Spizella passerina	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	BLJA	Blue Jay	1		1		Possible	S							Cyanocitta cristata	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	HETH	Hermil Thrush	2	0	1	1	Possible	S							Catharus guttatus	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	BTNW	Black-throated Green Warbler	1	1			Possible	S							Setophaga virens	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	BCCH	Black-capped Chickadee	1	0	1		Possible	S							Poecile atricapilla	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	NOFL	Northern Flicker	0				Possible	S							Colaptes auratus	7	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	DEJU	Dark-eyed Junco	1		1		Possible	S							Junco hyemalis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	COLO	Common Loon	1		1		Possible	S							Gavia immer	3	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	CSWA	Chestnut-sided Warbler	2		2		Possible	S							Setophaga pensylvanica	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	PAWA	Palm Warbler	1		1		Possible	S							Dendroica palmarum	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	OVEN	Ovenbird	1		1		Possible	S							Seiurus aurocapilla	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	AMCO	American Goldfinch	2		1		Possible	S							Carduelis tristis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 17	07:07	10	RSNU	Red-breasted Nuthatch	1		1		Possible	S							Sitta canadensis	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 16	07:33	10	BAWW	Black-and-white Warbler	0				Possible	S							Mniotilta varia	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 16	07:33	10	PAWA	Palm Warbler	2	2			Possible	S							Dendroica palmarum	6	
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 16	07:33	10	COLO	Common Loon	1		1		Possible	S							Gavia immer	3	
Carrie Jardine																							

Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	WTSP	White-throated Sparrow	1				Possible	S						Zonotrichia albicollis	6		
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	COYE	Common Yellowthroat	1				Possible	S						Geothlypis trichas	6		
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	NOPA	Northern Parula	1				Possible	S					Setophaga americana	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	YRWA	Yellow-rumped Warbler	1				Possible	S					Dendroica coronata	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	PAWA	Palm Warbler	1				Possible	S					Dendroica palmarum	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	BLBW	Blackburnian Warbler	1				Possible	S					Setophaga fusca	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	HETH	Hermitt Thrush	1				Possible	S					Catharus guttatus	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	COGR	Common Grackle	1				Possible	S					Quiscalus quiscula	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	NOFL	Northern Flicker	1				Possible	S					Colaptes auratus	7			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	OVEN	Ovenbird	1				Possible	S					Seiurus aurocapilla	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 02	09:30	10	AMRE	American Redstart	1				Possible	S					Setophaga ruticilla	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	BTNW	Black-throated Green Warbler	2				Possible	S					Setophaga virens	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	BTBW	Black-throated Blue Warbler	2				Possible	S					Setophaga caerulescens	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	YRWA	Yellow-rumped Warbler	1				Possible	S					Dendroica coronata	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	MAWA	Magnolia Warbler	1				Possible	S					Setophaga magnolia	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	BAWW	Black-and-white Warbler	1				Possible	S					Mniotilta varia	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	PAWA	Palm Warbler	1				Possible	S					Dendroica palmarum	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	RUGR	Ruffed Grouse	1				Possible	S					Bonasa umbellus	7			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	CHSP	Chipping Sparrow	1				Possible	S					Spizella passerina	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	WTSP	White-throated Sparrow	1				Possible	S					Zonotrichia albicollis	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	CSWA	Chestnut-sided Warbler	1				Possible	S					Setophaga pensylvanica	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	WIWR	Winter Wren	1				Possible	S					Troglodytes troglodytes	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	OSFL	Olive-sided Flycatcher	1				Possible	S					Contopus cooperi	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	DEJU	Dark-eyed Junco	1				Possible	S					Junco hyemalis	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	CORA	Common Raven	1				Possible	S					Corvus corax	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	YWAR	Yellow Warbler	1				Possible	S					Setophaga petechia	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	BHVI	Blue-headed Vireo	1				Possible	S					Vireo solitarius	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC 18	09:53	10	HETH	Hermitt Thrush	2				Possible	S					Catharus guttatus	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	BCCH	Black-capped Chickadee	0				Possible	S					Poecile atricapilla	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	COYE	Common Yellowthroat	1				Possible	S					Geothlypis trichas	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	BTNW	Black-throated Green Warbler	1				Possible	S					Setophaga virens	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	YRWA	Yellow-rumped Warbler	1				Possible	S					Dendroica coronata	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	BHVI	Blue-headed Vireo	1				Possible	S					Vireo solitarius	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	WTSP	White-throated Sparrow	0				Possible	S					Zonotrichia albicollis	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	RBNU	Red-breasted Nuthatch	1				Possible	S					Sitta canadensis	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	BTBW	Black-throated Blue Warbler	1				Possible	S					Setophaga caerulescens	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	WIWR	Winter Wren	1				Possible	S					Troglodytes troglodytes	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	MAWA	Magnolia Warbler	1				Possible	S					Setophaga magnolia	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	SOSP	Song Sparrow	2				Possible	S					Melospiza melodia	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	BLJA	Blue Jay	1				Possible	S					Cyanocitta cristata	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	HAWO	Hairy Woodpecker	1				Possible	S					Leuconotopicus villosus	6			
Carrie Jardine	Jordan H. Davis	2024-May-21	Spring Migration	PC01	10:17	10	DOWO	Downy Woodpecker	1				Possible	S					Picoides pubescens	7			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	DEJU	Dark-eyed Junco	1				Possible	S					Junco hyemalis	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	WIWR	Winter Wren	1				Possible	S					Troglodytes troglodytes	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	WTSP	White-throated Sparrow	1				Possible	S					Zonotrichia albicollis	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	AMGO	American Goldfinch	1				Possible	S					Carduelis tristis	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	AMRE	American Redstart	2				Possible	S					Setophaga ruticilla	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	SWTH	Swainson's Thrush	1				Possible	S					Catharus ustulatus	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	BTBW	Black-throated Blue Warbler	2				Possible	S					Setophaga caerulescens	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	MAWA	Magnolia Warbler	2				Possible	S					Setophaga magnolia	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	AMRO	American Robin	2				Possible	S					Turdus migratorius	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	COYE	Common Yellowthroat	4				Possible	S					Geothlypis trichas	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	PAWA	Palm Warbler	1				Possible	S					Dendroica palmarum	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	NAWA	Nashville Warbler	1				Possible	S					Vermivora ruficapilla	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	BBWA	Bay-breasted Warbler	1				Possible	S					Setophaga castanea	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	GCKI	Golden-crowned Kinglet	1				Possible	S					Regulus satrapa	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	CEWJ	Cedar Waxwing	1				Possible	S					Bombycilla cedrorum	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	COGR	Common Grackle	1				Possible	S					Quiscalus quiscula	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	YRWA	Yellow-rumped Warbler	1				Possible	S					Dendroica coronata	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	CSWA	Chestnut-sided Warbler	1				Possible	S					Setophaga pensylvanica	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	05:57	10	NOFL	Northern Flicker	1				Possible	S					Colaptes auratus	7			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC07	06:18	10	BBWA	Bay-breasted Warbler	2				Possible	S					Setophaga castanea	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	SWTH	Swainson's Thrush	1				Possible	S					Catharus ustulatus	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	PUFI	Purple Finch	2				Possible	S					Carpodacus purpureus	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	WIWR	Winter Wren	1				Possible	S					Troglodytes troglodytes	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	BTNW	Black-throated Green Warbler	2				Possible	S					Setophaga virens	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	COYE	Common Yellowthroat	2				Possible	S					Geothlypis trichas	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06:18	10	HETH	Hermitt Thrush	2				Possible	S					Catharus guttatus	6			
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC08	06																		



Table 20: Species Data - 2024 Spring Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	YBFL	Yellow-bellied Flycatcher	1		1		Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	RBNJ	Red-breasted Nuthatch	1				Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	YRWA	Yellow-rumped Warbler	1				Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	BCCH	Black-capped Chickadee	1				Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	WIWR	Winter Wren	1		1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	NOFL	Northern Flicker	1		1		Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	BBWA	Bay-breasted Warbler	1		1		Possible	S							<i>Setophaga castanea</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	AMGO	American Goldfinch	1		1		Possible	S							<i>Carduelis tristis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	DEJU	Dark-eyed Junco	1			1	Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	GOJK	Golden-crowned Kinglet	1		1		Possible	S							<i>Regulus satrapa</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC11	07:23	10	CAGO	Canada Goose	1	0			Possible	S							<i>Branta canadensis</i>	1	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	RCKI	Ruby-crowned Kinglet	0			1	Possible	S							<i>Regulus calendula</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	BAWW	Black-and-white Warbler	0				Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	COYE	Common Yellowthroat	1		1		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	BTNW	Black-throated Green Warbler	0				Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	HETH	Hermits Thrush	1		1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	YRWA	Yellow-rumped Warbler	1		1		Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	MAWA	Magnolia Warbler	2	2			Possible	S							<i>Setophaga magnolia</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	WIWR	Winter Wren	1		1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	BTBW	Black-throated Blue Warbler	1	1			Possible	S							<i>Setophaga caerulescens</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	WTSP	White-throated Sparrow	0				Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	AMRE	American Redstart	2	1	1		Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	DEJU	Dark-eyed Junco	2	1	1	0	Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	CSWA	Chestnut-sided Warbler	1		1		Possible	S							<i>Setophaga pensylvanica</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	AMRO	American Robin	1		1		Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	MAWO	Hairy Woodpecker	1		1		Possible	S							<i>Leuconotopicus villosus</i>	7	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC12	08:16	10	EVGR	Evening Grosbeak	1	1	0		Possible	S							<i>Coccothraustes vespertina</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	WTSP	White-throated Sparrow	3		2	1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	AMRE	American Redstart	1		1		Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	PAWA	Palm Warbler	2	2			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	MAWA	Magnolia Warbler	3	2	1		Possible	S							<i>Setophaga magnolia</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	COYE	Common Yellowthroat	3	2	1		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	BTNW	Black-throated Green Warbler	1		1		Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	AMRO	American Robin	2	2			Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	BHVI	Blue-headed Vireo	1		1		Possible	S							<i>Vireo solitarius</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	YBFL	Yellow-bellied Flycatcher	1		1		Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	DEJU	Dark-eyed Junco	1		1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	NOFL	Northern Flicker	1	0	1		Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	RBNJ	Red-breasted Nuthatch	1		1		Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	OVEN	Ovenbird	1		1		Possible	S							<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	WIWR	Winter Wren	1		1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC19	08:38	10	HETH	Hermits Thrush	1		1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	BTBW	Black-throated Blue Warbler	2		1		Possible	S							<i>Setophaga caerulescens</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	PAWA	Palm Warbler	2	1			Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	HETH	Hermits Thrush	1		1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	WTSP	White-throated Sparrow	2		2		Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	COYE	Common Yellowthroat	3	1	2		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	NAWA	Nashville Warbler	1	1			Possible	S							<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	BAWW	Black-and-white Warbler	2		2		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	REVI	Red-eyed Vireo	1		1		Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	MAWA	Magnolia Warbler	2	1			Possible	S							<i>Setophaga magnolia</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	CHSP	Chipping Sparrow	1		1		Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	PISI	Pine Siskin	2		2		Possible	S							<i>Spinus pinus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC20	08:58	10	AMRE	American Redstart	1		1		Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	BCCH	Black-capped Chickadee	1	1			Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	COYE	Common Yellowthroat	4	1	2	1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	RCKI	Ruby-crowned Kinglet	1		1		Possible	S							<i>Regulus calendula</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	WIWR	Winter Wren	2	1	1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	OSFL	Olive-sided Flycatcher	2		2		Possible	S							<i>Contopus cooperi</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	BTNW	Black-throated Green Warbler	3		1	2	Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	YRWA	Yellow-rumped Warbler	2	1	1		Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	HETH	Hermits Thrush	1		1		Possible	H							<i>Catharus guttatus</i>	6	
Carrie Jardine	Jordan H. Davis	2024-May-22	Spring Migration	PC06	09:59	10	COGR	Common Grackle	1	1	0		Possible	H									



Table 21: Species Summary - 2024 Spring Diurnal Raptor Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	2
American Goldfinch	<i>Spinus tristis</i>	6	Not Listed	Not Listed	Not Listed	S5	3
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	3
Bald Eagle	<i>Haliaeetus leucocephalus</i>	4	Not Listed	Not at Risk	Not Listed	S5	2
Bay-breasted Warbler	<i>Setophaga castanea</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	1
Black-and-white Warbler	<i>Mniotilta varia</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Blackburnian Warbler	<i>Setophaga fusca</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	5
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	4
Blue-headed Vireo	<i>Vireo solitarius</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Boreal Chickadee	<i>Poecile hudsonica</i>	6	Not Listed	Not Listed	Not Listed	S3	1
Canada Goose	<i>Branta canadensis</i>	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	4
Canada Jay	<i>Perisoreus canadensis</i>	6	Not Listed	Not Listed	Not Listed	S3	1
Cape May Warbler	<i>Setophaga tigrina</i>	6	Not Listed	Not Listed	Not Listed	S3B,SUM	2
Chipping Sparrow	<i>Spizella passerina</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	2
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	6
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	2
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	4
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	10
Magnolia Warbler	<i>Setophaga magnolia</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Merlin	<i>Falco columbarius</i>	4	Not Listed	Not at Risk	Not Listed	S5B	1
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	7
Olive-sided Flycatcher	<i>Contopus cooperi</i>	6	Special Concern	Special Concern	Threatened	S3B	2
Ovenbird	<i>Seiurus aurocapilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Pine Siskin	<i>Spinus pinus</i>	6	Not Listed	Not Listed	Not Listed	S3	2
Purple Finch	<i>Haemorhous purpureus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	2
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	3
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Turkey Vulture	<i>Cathartes aura</i>	4	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	4
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	7
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	6

**Table 21: Species Summary - 2024 Spring Diurnal Raptor Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Yellow Warbler	<i>Setophaga petechia</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	4

Table 22: Species Data - 2024 Spring Diurnal Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Comments? Blo	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Ben MacNeill	18-Apr-24	Diurnal Raptor	Diurnal 1	10:57		CORA	Common Raven	1							1				<i>Corvus corax</i>	6		
Carrie Jardine	Ben MacNeill	18-Apr-24	Diurnal Raptor	Diurnal 1	10:57		BAEA	Bald Eagle	2			1				1					<i>Haliaeetus leucocephalus</i>	4	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		TUVU	Turkey Vulture	3				Observed	X		3					<i>Cathartes aura</i>	4	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		MERL	Merlin	1				Observed	X		1					<i>Falco columbarius</i>	4	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		DEJU	Dark-eyed Junco	2	2			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		WIWR	Winter Wren	1			1	Possible	S							<i>Troglodytes hiemalis</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		BCCH	Black-capped Chickadee	1	1			Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		SOSP	Song Sparrow	1	1			Possible	H							<i>Melospiza melodia</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		AMCR	American Crow	1			1	Possible	H							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		NOFL	Northern Flicker	1			1	Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		PAWA	Palm Warbler	1	1			Possible	S							<i>Setophaga palmarum</i>	6	
Carrie Jardine	Ben MacNeill	19-Apr-24	Diurnal Raptor	Diurnal 4	12:22		WTSP	White-throated Sparrow	1	1			Possible	S							<i>Zonotrichia albicollis</i>	6	
Ben MacNeill	Other	22-Apr-24	Diurnal Raptor	Diurnal 2	19:46				0														
Ben MacNeill	Other	23-Apr-24	Diurnal Raptor	Diurnal 3	19:12				0														
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		WIWR	Winter Wren	1	1			Possible	S							<i>Troglodytes hiemalis</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		DEJU	Dark-eyed Junco	1	1			Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		WTSP	White-throated Sparrow	2	2			Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		CAGO	Canada Goose	4		4		Observed	X							<i>Branta canadensis</i>	1	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		BTNW	Black-throated Green Warbler	1		1		Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		YRWA	Yellow-rumped Warbler	1		1		Possible	S							<i>Setophaga coronata</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		NOFL	Northern Flicker	3			2	Probable	P			1				<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		PAWA	Palm Warbler	1		1		Possible	S							<i>Setophaga palmarum</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		AMRO	American Robin	1	1			Possible	H							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		BOCH	Boreal Chickadee	1		1		Observed	X							<i>Poecile hudsonica</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		CORA	Common Raven	1			1	Observed	X							<i>Corvus corax</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		BLJA	Blue Jay	1			1	Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		RTHA	Red-tailed Hawk	1				Observed	X			1				<i>Buteo jamaicensis</i>	4	
Carrie Jardine	Other	7-May-24	Diurnal Raptor	Diurnal 4	11:05		BHVI	Blue-headed Vireo	1		1		Possible	S							<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		BTNW	Black-throated Green Warbler	2	1	1		Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		PUFI	Purple Finch	1	1			Possible	S							<i>Haemorhous purpureus</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		HETH	Hermit Thrush	1	1			Possible	H							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		DEJU	Dark-eyed Junco	1	1			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		NOFL	Northern Flicker	1	1			Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		BLJA	Blue Jay	1		1		Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		YRWA	Yellow-rumped Warbler	1	1			Possible	S							<i>Setophaga coronata</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		BAWW	Black-and-white Warbler	2	1	1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		YWAR	Yellow Warbler	1	1			Possible	S							<i>Setophaga petechia</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		WIWR	Winter Wren	1	1			Possible	S							<i>Troglodytes hiemalis</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		HAWO	Hairy Woodpecker	1	1			Possible	H							<i>Dryobates villosus</i>	7	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		GCKI	Golden-crowned Kinglet	1	1			Possible	S							<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		AMGO	American Goldfinch	1				Possible	H			1				<i>Spinus tristis</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		AMCR	American Crow	1			1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		GCKI	Golden-crowned Kinglet	1	1			Possible	S							<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		SOSP	Song Sparrow	1			1	Possible	H							<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	8-May-24	Diurnal Raptor	Diurnal 2	11:10		CAJA	Canada Jay	1	1			Possible	H							<i>Perisoreus canadensis</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		NOFL	Northern Flicker	1			1	Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BTNW	Black-throated Green Warbler	1		1		Possible	S							<i>Setophaga virens</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		WIWR	Winter Wren	1		1		Possible	S							<i>Troglodytes hiemalis</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BAWW	Black-and-white Warbler	1		1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		PUFI	Purple Finch	1			1	Possible	S							<i>Haemorhous purpureus</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		OVEN	Ovenbird	1			1	Possible	S							<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		WTSP	White-throated Sparrow	1			1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BLJA	Blue Jay	1		1		Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		CMWA	Cape May Warbler	2		2		Possible	S							<i>Setophaga tigrina</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		PAWA	Palm Warbler	1	1			Possible	S							<i>Setophaga palmarum</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		MAWA	Magnolia Warbler	3	1	2		Possible	S							<i>Setophaga magnolia</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		HAWO	Hairy Woodpecker	1		1		Possible	H							<i>Dryobates villosus</i>	7	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BHVI	Blue-headed Vireo	1	1			Probable	P							<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		YRWA	Yellow-rumped Warbler	1	1			Possible	S							<i>Setophaga coronata</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		WTSP	White-throated Sparrow	1			1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		CHSP	Chipping Sparrow	1	1			Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		DEJU	Dark-eyed Junco	1	1			Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		HETH	Hermit Thrush	1				Possible	H			1				<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BLBW	Blackburnian Warbler	1	1			Possible	S							<i>Setophaga fusca</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		COYE	Common Yellowthroat	1		1		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		BLJA	Blue Jay	1	1			Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	21-May-24	Diurnal Raptor	Diurnal 3	11:04		AMRO	American Robin	2	1	1		Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		HETH	Hermit Thrush	6	1	2	3	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		WIWR	Winter Wren	2		1	1	Possible	S							<i>Troglodytes hiemalis</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		COYE	Common Yellowthroat	2		1	1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		TUVU	Turkey Vulture	1				Observed	X			1				<i>Cathartes aura</i>	4	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		AMGO	American Goldfinch	2				Possible	H			2				<i>Spinus tristis</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		BHVI	Blue-headed Vireo	2	1	1		Possible	S							<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		WTSP	White-throated Sparrow	2		1	1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		DEJU	Dark-eyed Junco	1			1	Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		BTNW	Black-throated Green Warbler	1		1												

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	ents? Blo	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		RTHA	Red-tailed Hawk	2			1	Possible	H			1				<i>Buteo jamaicensis</i>	4	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		BLJA	Blue Jay	0				Possible	H							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		OSFL	Olive-sided Flycatcher	2	1		1	Possible	S							<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		YBFL	Yellow-bellied Flycatcher	1		1		Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		CORA	Common Raven	1			1	Possible	H							<i>Corvus corax</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		BBWA	Bay-breasted Warbler	1	1			Possible	S							<i>Setophaga castanea</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		YRWA	Yellow-rumped Warbler	1	1			Possible	S							<i>Setophaga coronata</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		BAWW	Black-and-white Warbler	1	1			Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		HAWO	Hairy Woodpecker	2	1	1		Possible	H							<i>Dryobates villosus</i>	7	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		CHSP	Chipping Sparrow	1		1		Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		NOFL	Northern Flicker	1		1		Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	22-May-24	Diurnal Raptor	Diurnal 1	10:35		PISI	Pine Siskin	2				Possible	H			2				<i>Spinus pinus</i>	6	

Table 23: Species Summary - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Alder Flycatcher	<i>Empidonax alnorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	18
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	19
American Goldfinch	<i>Spinus tristis</i>	6	Not Listed	Not Listed	Not Listed	S5	19
American Redstart	<i>Setophaga ruticilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	9
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	60
American Woodcock	<i>Scolopax minor</i>	2	Not Listed	Not Listed	Not Listed	S5B	1
Black-and-white Warbler	<i>Mniotilta varia</i>	6	Not Listed	Not Listed	Not Listed	S5B	49
Bay-breasted Warbler	<i>Setophaga castanea</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	12
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	53
Belted Kingfisher	<i>Megaceryle alcyon</i>	3	Not Listed	Not Listed	Not Listed	S4S5B	5
Blue-headed Vireo	<i>Vireo solitarius</i>	6	Not Listed	Not Listed	Not Listed	S5B	27
Blackburnian Warbler	<i>Setophaga fusca</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	4
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	24
Blackpoll Warbler	<i>Setophaga striata</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5M	2
Boreal Chickadee	<i>Poecile hudsonica</i>	6	Not Listed	Not Listed	Not Listed	S3	2
Brown Creeper	<i>Certhia americana</i>	6	Not Listed	Not Listed	Not Listed	S5	2
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	6	Not Listed	Not Listed	Not Listed	S5	8
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	98
Canada Jay	<i>Perisoreus canadensis</i>	6	Not Listed	Not Listed	Not Listed	S3	11
Canada Warbler	<i>Cardellina canadensis</i>	6	Threatened	Special Concern	Endangered	S3B	3
Cedar Waxwing	<i>Bombycilla cedrorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	58
Chipping Sparrow	<i>Spizella passerina</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	23
Cape May Warbler	<i>Setophaga tigrina</i>	6	Not Listed	Not Listed	Not Listed	S3B,SUM	3
Common Grackle	<i>Quiscalus quiscula</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Common Loon	<i>Gavia immer</i>	3	Not Listed	Not at Risk	Not Listed	S4B	8
Common Nighthawk	<i>Chordeiles minor</i>	6	Special Concern	Special Concern	Threatened	S3B	7
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	2
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	167
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	81
Downy Woodpecker	<i>Dryobates pubescens</i>	7	Not Listed	Not Listed	Not Listed	S5	3
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	25
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	13
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	105
Least Flycatcher	<i>Empidonax minimus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	2
Magnolia Warbler	<i>Setophaga magnolia</i>	6	Not Listed	Not Listed	Not Listed	S5B	86
Mourning Dove	<i>Zenaidura macroura</i>	7	Not Listed	Not Listed	Not Listed	S5	8
Nashville Warbler	<i>Leiostyris ruficapilla</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	13
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	

Table 23: Species Summary - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Northern Parula	<i>Setophaga americana</i>	6	Not Listed	Not Listed	Not Listed	S5B	22
Olive-sided Flycatcher	<i>Contopus cooperi</i>	6	Special Concern	Special Concern	Threatened	S3B	26
Ovenbird	<i>Seiurus aurocapilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	13
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	63
Pine Grosbeak	<i>Pinicola enucleator</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5N,S5M	2
Pine Siskin	<i>Spinus pinus</i>	6	Not Listed	Not Listed	Not Listed	S3	7
Pileated Woodpecker	<i>Dryocopus pileatus</i>	7	Not Listed	Not Listed	Not Listed	S5	9
Purple Finch	<i>Haemorhous purpureus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	8
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	6	Not Listed	Not Listed	Not Listed	S3B	1
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	13
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	6
Red Crossbill	<i>Loxia curvirostra</i>	6	Not Listed	Not Listed	Not Listed	S3S4	6
Red-eyed Vireo	<i>Vireo olivaceus</i>	6	Not Listed	Not Listed	Not Listed	S5B	40
Ring-necked Duck	<i>Aythya collaris</i>	1	Not Listed	Not Listed	Not Listed	S5B	3
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	2
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Ruffed Grouse	<i>Bonasa umbellus</i>	7	Not Listed	Not Listed	Not Listed	S5	2
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	6	Not Listed	Not Listed	Not Listed	S4B	2
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	26
Spruce Grouse	<i>Canachites canadensis</i>	7	Not Listed	Not Listed	Not Listed	S4	1
Sharp-shinned Hawk	<i>Accipiter striatus</i>	4	Not Listed	Not at Risk	Not Listed	S5	1
Swamp Sparrow	<i>Melospiza georgiana</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Swainson's Thrush	<i>Catharus ustulatus</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	22
Tennessee Warbler	<i>Leiothlypis peregrina</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S5M	2
Tree Swallow	<i>Tachycineta bicolor</i>	6	Not Listed	Not Listed	Not Listed	S4B	1
White-breasted Nuthatch	<i>Sitta carolinensis</i>	6	Not Listed	Not Listed	Not Listed	S4	2
Wilson's Warbler	<i>Cardellina pusilla</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5M	1
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	59
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	149
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	23
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	91
Yellow Warbler	<i>Setophaga petechia</i>	6	Not Listed	Not Listed	Not Listed	S5B	3



Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	ALFL	Alder Flycatcher	1						Possible	S							<i>Empidonax alnorum</i>	6		
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	WTSP	White-throated Sparrow	3			1	2	0	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	DEJU	Dark-eyed Junco	2			2			Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	OVEN	Ovenbird	1				1		Possible	S								<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	COYE	Common Yellowthroat	3				2	1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	BHVI	Blue-headed Vireo	1			1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	WIWR	Winter Wren	1				1		Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	SOSP	Song Sparrow	3			1		2	Possible	S								<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	NOFL	Northern Flicker	1						Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	HETH	Hermit Thrush	3					3	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	BEKI	Belted Kingfisher	1				1		Possible	H								<i>Megasceryle alcyon</i>	3	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	COLO	Common Loon	1					1	Possible	S								<i>Gavia immer</i>	3	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	OSFL	Olive-sided Flycatcher	1					1	Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	PSIS	Pine Siskin	2						Possible	H			2					<i>Carduelis pinus</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	YRWA	Yellow-rumped Warbler	3			1	2	0	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	NOFA	Northern Parula	2				2		Possible	S								<i>Parula americana</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	PAWA	Palm Warbler	1				1		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC17	05:47	10	AMRO	American Robin	1			1			Possible	H								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	OSFL	Olive-sided Flycatcher	1					1	Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	WTSP	White-throated Sparrow	3			1	2		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	YRWA	Yellow-rumped Warbler	3			1	1	1	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	NOFA	Northern Parula	1			1			Possible	S								<i>Parula americana</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	CMWA	Cape May Warbler	1			1			Possible	S								<i>Dendroica tigrina</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	BEKI	Belted Kingfisher	1				1		Possible	S								<i>Megasceryle alcyon</i>	3	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	COYE	Common Yellowthroat	3				2	1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	HAWO	Hairy Woodpecker	1					1	Possible	H								<i>Picoides villosus</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	WBNU	White-breasted Nuthatch	1			1			Possible	H								<i>Sitta carolinensis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	WIWR	Winter Wren	1				1		Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	NAWA	Nashville Warbler	1			1			Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	DEJU	Dark-eyed Junco	1			1			Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC19	06:10	10	BAWW	Black-and-white Warbler	1			1			Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	RTHA	Red-tailed Hawk	1						Possible	H			1					<i>Buteo jamaicensis</i>	4	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	WIWR	Winter Wren	2				1	1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	DOWO	Downy Woodpecker	1				1		Possible	H								<i>Picoides pubescens</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	COYE	Common Yellowthroat	2				1	1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	WTSP	White-throated Sparrow	3				2	1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	YBFL	Yellow-bellied Flycatcher	1				1		Possible	S								<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	CHSP	Chipping Sparrow	1			1			Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	BHVI	Blue-headed Vireo	1				0	1	Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	MAWA	Magnolia Warbler	1			1			Possible	S								<i>Dendroica magnaolia</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	YRWA	Yellow-rumped Warbler	1				1		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	DEJU	Dark-eyed Junco	1			1			Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	OVEN	Ovenbird	1					1	Possible	S								<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	MODO	Mourning Dove	1				1	0	Possible	S								<i>Zenaidura macroura</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	AMRO	American Robin	1					1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	CSWA	Chestnut-sided Warbler	1				1		Possible	S								<i>Dendroica pensylvanica</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	HETH	Hermit Thrush	1					1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC21	06:32	10	BTNW	Black-throated Green Warbler	1					1	Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	WTSP	White-throated Sparrow	4			1	3		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	COYE	Common Yellowthroat	3			1	2		Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	OSFL	Olive-sided Flycatcher	1					1	Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	WIWR	Winter Wren	1				1		Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	YRWA	Yellow-rumped Warbler	1				1		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	COLO	Common Loon	1					1	Possible	S								<i>Gavia immer</i>	3	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	DOWO	Downy Woodpecker	1				1		Possible	H								<i>Picoides pubescens</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	AMRO	American Robin	2			2			Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	BLJA	Blue Jay	1					1	Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	BHVI	Blue-headed Vireo	1			1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	PSIS	Pine Siskin	1						Possible	H			1					<i>Carduelis pinus</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	BAWW	Black-and-white Warbler	1			1			Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	DEJU	Dark-eyed Junco	1				1		Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	NOFL	Northern Flicker	1				1		Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	MODO	Mourning Dove	1				0	1	Possible	S								<i>Zenaidura macroura</i>	7	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	WBNU	White-breasted Nuthatch	1				1		Possible	S								<i>Sitta carolinensis</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC20	06:57	10	CHSP	Chipping Sparrow	1			1			Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC18	07:28	10	OSFL	Olive-sided Flycatcher	1			1			Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC18	07:28	10	BCCH	Black-capped Chickadee	1			1			Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	4-Jun-24	Breeding	PC18	07:28	10	NOFA	Northern Parula	2			1	1		Possible	S								<i>Parula americana</i>	6	
Carrie Jard																										



Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	BHVI	Blue-headed Vireo	1						Possible	S							<i>Vireo solitarius</i>	6		
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	AMGO	American Goldfinch	1						Possible	H			1					<i>Carduelis tristis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	RWBL	Red-winged Blackbird	1				1		Possible	H								<i>Agelaius phoeniceus</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	CEDW	Cedar Waxwing	1						Possible	H			1					<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	YRWA	Yellow-rumped Warbler	2			1	1		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC03	06:41	10	PAWA	Palm Warbler	1				1		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	MAWA	Magnolia Warbler	5			2	3		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	WTSP	White-throated Sparrow	1				1		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	AMRO	American Robin	2			1		1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	YRWA	Yellow-rumped Warbler	1			1			Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	PAWA	Palm Warbler	2			1	1		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	BTNW	Black-throated Green Warbler	3			1	2		Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	GCKI	Golden-crowned Kinglet	1				1		Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	COYE	Common Yellowthroat	2			1	1		Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	SWTH	Swainson's Thrush	2				1	1	Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	ALFL	Alder Flycatcher	2				2		Possible	S								<i>Empidonax alnorum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	DEJU	Dark-eyed Junco	1			1			Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	NOFL	Northern Flicker	1				1		Possible	H								<i>Colaptes auratus</i>	7	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	CHSP	Chipping Sparrow	1				1		Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	BCCH	Black-capped Chickadee	1			1			Possible	H								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	RWBL	Red-winged Blackbird	1				1		Possible	H								<i>Agelaius phoeniceus</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	CSWA	Chestnut-sided Warbler	1				1		Possible	S								<i>Dendroica pensylvanica</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC04	07:03	10	BAWW	Black-and-white Warbler	1			1			Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	WTSP	White-throated Sparrow	4				2	2	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	SWTH	Swainson's Thrush	1				1		Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	COYE	Common Yellowthroat	3			2	1		Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	BTNW	Black-throated Green Warbler	2			1	1		Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	MAWA	Magnolia Warbler	1				1		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	PAWA	Palm Warbler	2				2		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	YRWA	Yellow-rumped Warbler	1				1		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	ALFL	Alder Flycatcher	1				0	1	Possible	S								<i>Empidonax alnorum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	AMCR	American Crow	1					1	Possible	H								<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	RECR	Red Crossbill	3						Possible	H					3			<i>Loxia curvirostra</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	CSWA	Chestnut-sided Warbler	1				1		Possible	S								<i>Dendroica pensylvanica</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	DEJU	Dark-eyed Junco	1			1			Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	WIWR	Winter Wren	1					1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	SOSP	Song Sparrow	1			1			Possible	H								<i>Melospiza melodia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	COGR	Common Grackle	1			1			Possible	H								<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	BCCH	Black-capped Chickadee	1			1			Possible	H								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC05	07:27	10	CAJA	Canada Jay	1			1			Possible	S								<i>Picus canadensis</i>	7	6
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	MAWA	Magnolia Warbler	3			2	1		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	RCKI	Ruby-crowned Kinglet	1				1		Possible	S								<i>Regulus calendula</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	NAWA	Nashville Warbler	1			1			Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	WTSP	White-throated Sparrow	2				1	1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	YRWA	Yellow-rumped Warbler	1			1			Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	YBFL	Yellow-bellied Flycatcher	2			1	1		Possible	S								<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	DEJU	Dark-eyed Junco	1				1		Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	YWAR	Yellow Warbler	1			1			Possible	S								<i>Dendroica petechia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	YRWA	Yellow-rumped Warbler	1			1			Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC06	08:14	10	BAWW	Black-and-white Warbler	1			1			Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	BCCH	Black-capped Chickadee	2			1	1		Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	WTSP	White-throated Sparrow	3				1	2	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	NOFL	Northern Flicker	1				1		Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	NOPA	Northern Parula	1				1		Possible	S								<i>Parula americana</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	HETH	Hermit Thrush	1					1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	YBFL	Yellow-bellied Flycatcher	1					1	Possible	S								<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	YRWA	Yellow-rumped Warbler	1				1		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	BTNW	Black-throated Green Warbler	2				1	1	Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	AMRO	American Robin	1				1	1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	WIWR	Winter Wren	1			1			Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC07	08:38	10	SOSP	Song Sparrow	1				1		Possible	S								<i>Melospiza melodia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	MAWA	Magnolia Warbler	4			1	3	1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	BAWW	Black-and-white Warbler	2			1	1		Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	CEDW	Cedar Waxwing	2						Possible	S								<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	WTSP	White-throated Sparrow	2				2		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	PAWA	Palm Warbler	2			1	1		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	COYE	Common Yellowthroat	1				1		Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Samantha Stegen	5-Jun-24	Breeding	PC08	08:59	10	AMGO	American Goldfinch	1																	



Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
												<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	BTNW	Black-throated Green Warbler	2						Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	SOSP	Song Sparrow	2				1	1	Possible	S							<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	CEDW	Cedar Waxwing	1						Possible	S							<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	NOFL	Northern Flicker	1					1	Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	AMRE	American Redstart	1				1		Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC17	05:27	10	REVI	Red-eyed Vireo	1				1		Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	WTSP	White-throated Sparrow	2					2	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	YBFL	Yellow-bellied Flycatcher	1				1	0	Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	SOSP	Song Sparrow	1				1		Possible	S							<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	WIWR	Winter Wren	2					2	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	COYE	Common Yellowthroat	4				1	2	1	Possible	S						<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	AMCR	American Crow	1					1	0	Observed	X						<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	BCCH	Black-capped Chickadee	1				1		Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	ALFL	Alder Flycatcher	2				1	1	Possible	S							<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	BTNW	Black-throated Green Warbler	1				1		Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	COLO	Common Loon	1				1	0	Possible	S							<i>Gavia immer</i>	3	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	NOFA	Northern Parula	1					1	Possible	S							<i>Parula americana</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	NAWA	Nashville Warbler	1					1	Possible	S							<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	DEJU	Dark-eyed Junco	2				2		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	HETH	Hermit Thrush	1					1	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	BEKI	Belted Kingfisher	1					1	Possible	S							<i>Meigasceryle alcyon</i>	3	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	NOFL	Northern Flicker	1					1	Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	RTHU	Ruby-throated Hummingbird	1				1		Possible	S							<i>Archiochloa colubris</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	MODO	Mourning Dove	1					1	Possible	S							<i>Zenaidura macroura</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	MAWA	Magnolia Warbler	1					1	Possible	S							<i>Dendroica magnaia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	BAWW	Black-and-white Warbler	1				1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC19	05:56	10	HAWO	Hairy Woodpecker	1					1	Possible	S							<i>Picoides villosus</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	WTSP	White-throated Sparrow	4				1	2	1	Possible	S						<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	COYE	Common Yellowthroat	3				2	1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	PAWA	Palm Warbler	2					2	Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	CHSP	Chipping Sparrow	1				1		Possible	S							<i>Spizella passerina</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	WIWR	Winter Wren	1					1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	AMCR	American Crow	2					0	2	Observed	X						<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	COLO	Common Loon	1					1	Possible	S							<i>Gavia immer</i>	3	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	MODO	Mourning Dove	2					1	Possible	S							<i>Zenaidura macroura</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	MAWA	Magnolia Warbler	2				1	1	Possible	S							<i>Dendroica magnaia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	YRWA	Yellow-rumped Warbler	2					2	Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	DEJU	Dark-eyed Junco	1				1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	BAWW	Black-and-white Warbler	1					1	Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	BEKI	Belted Kingfisher	1					1	Observed	X							<i>Meigasceryle alcyon</i>	3	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	CEDW	Cedar Waxwing	2				2		Possible	S							<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	HETH	Hermit Thrush	1					1	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10	NAWA	Nashville Warbler	1				1		Possible	S							<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC21	06:20	10			1						Observed	X									
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	WIWR	Winter Wren	2					1	1	Possible	S						<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	ALFL	Alder Flycatcher	1					1	Possible	S							<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	AMRO	American Robin	2				1	1	Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	WTSP	White-throated Sparrow	2					2	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	PAWA	Palm Warbler	2					2	Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	AMCR	American Crow	2						2	Observed	X						<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	DEJU	Dark-eyed Junco	2				1	1	Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	COYE	Common Yellowthroat	1					1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	BAWW	Black-and-white Warbler	1					1	Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	NOFL	Northern Flicker	1					1	Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	MAWA	Magnolia Warbler	2					2	Possible	S							<i>Dendroica magnaia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	REVI	Red-eyed Vireo	1					1	Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	NOFA	Northern Parula	1				0		Possible	S							<i>Parula americana</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	HETH	Hermit Thrush	1				1	0	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	SOSP	Song Sparrow	1					1	Possible	S							<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC20	06:46	10	SSHA	Sharp-shinned Hawk	1					1	Possible	H							<i>Accipiter striatus</i>	4	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	CEDW	Cedar Waxwing	2				2		Possible	S							<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	WTSP	White-throated Sparrow	3				2	1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	COYE	Common Yellowthroat	1					1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	PAWA	Palm Warbler	2				1	1	Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	AMCR	American Crow	1					1	Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	ALFL	Alder Flycatcher	1					1	Possible	S							<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	MAWA	Magnolia Warbler	2				2		Possible	S							<i>Dendroica magnaia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	COLO	Common Loon	1					1	Possible	S							<i>Gavia immer</i>	3	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	WIWR	Winter Wren	1					1	Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	BAWW	Black-and-white Warbler	1					1	Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	AMGO	American Goldfinch	1						Possible	H							<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC18	07:19	10	YRWA																		

Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
												<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	18-Jun-24	Breeding	PC12	09:23	10	YRWA	Yellow-rumped Warbler	1						Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC12	09:23	10	BLJA	Blue Jay	1				1		Possible	S							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC12	09:23	10	BLPW	Blackpoll Warbler	1				1		Possible	S							<i>Setophaga striata</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC15	09:44	10	YBFL	Yellow-bellied Flycatcher	1				1	0	Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC15	09:44	10	BTBW	Black-throated Blue Warbler	1				1		Possible	S							<i>Dendroica caerulescens</i>	6	
Carrie Jardine	Other	18-Jun-24	Breeding	PC15	09:44	10	COYE	Common Yellowthroat	1				1		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	BCCH	Black-capped Chickadee	2				2		Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	BTNW	Black-throated Green Warbler	2				1	1	Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	RBNV	Red-breasted Nuthatch	1				1		Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	SWTH	Swainson's Thrush	1				1		Possible	S							<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	SOSP	Song Sparrow	1				1		Possible	S							<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	HETH	Hermit Thrush	1				1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	AMCR	American Crow	1				1		Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	YRWA	Yellow-rumped Warbler	1				1		Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC15	09:44	10	MAWA	Magnolia Warbler	1				1		Possible	S							<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	REVI	Red-eyed Vireo	1				1		Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	BTNW	Black-throated Green Warbler	2				1	1	Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	WTSP	White-throated Sparrow	3				2	1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	BAWW	Black-and-white Warbler	1				1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	HETH	Hermit Thrush	1				1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	COYE	Common Yellowthroat	2				2		Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	MAWA	Magnolia Warbler	2				2		Possible	S							<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	AMCR	American Crow	1				1		Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	NOFL	Northern Flicker	1				1		Confirmed	AE							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-06-18	Breeding	PC13	10:05	10	PUFI	Purple Finch	1				1		Possible	S							<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	MAWA	Magnolia Warbler	2				1	1	Possible	S							<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	AMRE	American Redstart	1				0	1	Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	AMRO	American Robin	1				1		Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	WIWR	Winter Wren	1				1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	BTNW	Black-throated Green Warbler	1				1		Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	NOFL	Northern Flicker	1				1		Possible	H							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	BAWW	Black-and-white Warbler	1				1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	PAWA	Palm Warbler	1				1		Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	OVEN	Ovenbird	1				1		Possible	S							<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	YRWA	Yellow-rumped Warbler	2				1	1	Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	WIWA	Wilson's Warbler	1				1		Possible	S							<i>Cardellina pusilla</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	AMGO	American Goldfinch	1				1		Possible	S							<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	COFA	Common Raven	1				1		Observed	X							<i>Corvus corax</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	GCKI	Golden-crowned Kinglet	1				1		Possible	S							<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	DEJU	Dark-eyed Junco	1				1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	BLJA	Blue Jay	1				1		Possible	S							<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-06-18	Breeding	PC14	10:26	10	AMCR	American Crow	1				1		Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	BBWA	Bay-breasted Warbler	3				3		Possible	S							<i>Dendroica castanea</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	DEJU	Dark-eyed Junco	1				1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	GCKI	Golden-crowned Kinglet	1				1		Possible	S							<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	WTSP	White-throated Sparrow	1				1		Probable	A							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	BAWW	Black-and-white Warbler	1				1		Possible	S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	HETH	Hermit Thrush	1				1		Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	OSFL	Olive-sided Flycatcher	1				1		Probable	T							<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	COYE	Common Yellowthroat	3				2	1	Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	WIWR	Winter Wren	1				1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	BTNW	Black-throated Green Warbler	1				1		Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	DEJU	Dark-eyed Junco	1				1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	SWTH	Swainson's Thrush	1				1		Possible	S							<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	BCCH	Black-capped Chickadee	1				1		Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	BHVI	Blue-headed Vireo	1				1		Possible	S							<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	YBFL	Yellow-bellied Flycatcher	1				1		Possible	S							<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	YRWA	Yellow-rumped Warbler	1				1		Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	RBNV	Red-breasted Nuthatch	1				1		Possible	S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 2	11:16	30	PUFI	Purple Finch	0				1		Possible	S									

Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	DEJU	Dark-eyed Junco	2						Possible	S							<i>Junco hyemalis</i>	6		
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	BHVI	Blue-headed Vireo	1						Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	WIWR	Winter Wren	2						Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	BCCH	Black-capped Chickadee	1						Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	MAWA	Magnolia Warbler	1						Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	HETH	Hermit Thrush	1						Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	AMCR	American Crow	1				1		Observed	X								<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	COYE	Common Yellowthroat	1						Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	BLBW	Blackburnian Warbler	1				1		Possible	S								<i>Setophaga fusca</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC03	06:30	10	GCKI	Golden-crowned Kinglet	1				1		Possible	H								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	COYE	Common Yellowthroat	1						Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	ALFL	Alder Flycatcher	2				1		Possible	S								<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	BTNW	Black-throated Green Warbler	2				1		Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	WTSP	White-throated Sparrow	3				1	2	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	CEDW	Cedar Waxwing	1					0	Possible	S								<i>Bombus cedrorum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	MAWA	Magnolia Warbler	3				2	1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	RBNV	Red-breasted Nuthatch	1				0	1	Possible	S								<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	REVI	Red-eyed Vireo	4				1	3	Possible	S								<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	HETH	Hermit Thrush	2					1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	DEJU	Dark-eyed Junco	1					0	Possible	H										
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	NOFL	Northern Flicker	1					1	Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	YRWA	Yellow-rumped Warbler	2					2	Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	BLJA	Blue Jay	2					2	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	HAWO	Hairy Woodpecker	1				1		Possible	S								<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	CHSP	Chipping Sparrow	1				1		Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC04	06:53	10	BCCH	Black-capped Chickadee	1				1		Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	PAWA	Palm Warbler	2				2		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	HETH	Hermit Thrush	2					2	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	MAWA	Magnolia Warbler	2				2		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	NOFL	Northern Flicker	1					1	Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	COYE	Common Yellowthroat	2				1	1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	CEDW	Cedar Waxwing	1						Possible	H								<i>Bombus cedrorum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	WIWR	Winter Wren	1					1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	WTSP	White-throated Sparrow	3					2	Probable	T								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	BAWW	Black-and-white Warbler	2				2		Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	PUFI	Purple Finch	1				1		Possible	H								<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	BLJA	Blue Jay	2				1		Possible	H								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	BTNW	Black-throated Green Warbler	1					1	Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	GCKI	Golden-crowned Kinglet	1				1		Possible	H								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	COGR	Common Grackle	1					1	Possible	S								<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	DEJU	Dark-eyed Junco	1					1	Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	ALFL	Alder Flycatcher	1					1	Possible	S								<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC05	07:19	10	NAWA	Nashville Warbler	1					1	Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	WIWR	Winter Wren	1					1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	NAWA	Nashville Warbler	1					1	Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	MAWA	Magnolia Warbler	3				2	1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	HETH	Hermit Thrush	3					2	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	BTNW	Black-throated Green Warbler	2				1	1	Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	WTSP	White-throated Sparrow	1					1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	PIWO	Pileated Woodpecker	1				1		Possible	S								<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	COYE	Common Yellowthroat	1					1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	DEJU	Dark-eyed Junco	1				1		Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	REVI	Red-eyed Vireo	2				1	1	Possible	S								<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	YRWA	Yellow-rumped Warbler	1					1	Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	NOPA	Northern Parula	1					1	Possible	S								<i>Parula americana</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	RBNV	Red-breasted Nuthatch	1					1	Possible	S								<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	BAWW	Black-and-white Warbler	1				1		Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC06	08:02	10	BRCR	Brown Creeper	1					1	Possible	S								<i>Certhia americana</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	CEDW	Cedar Waxwing	1						Possible	S								<i>Bombus cedrorum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	WIWR	Winter Wren	1					1	Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	MAWA	Magnolia Warbler	1					1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	BAWW	Black-and-white Warbler	2				2		Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	WTSP	White-throated Sparrow	1					1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	COYE	Common Yellowthroat	3					2	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	CHSP	Chipping Sparrow	1					1	Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	SWTH	Swainson's Thrush	1						Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	AMRO	American Robin	1					1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07	08:34	10	BTNW	Black-throated Green Warbler	1					1	Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC07																						



Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
												<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	2024-06-19	Breeding	PC09	09:55	10	BBWA	Bay-breasted Warbler	1						Possible	S							<i>Dendroica castanea</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC09	09:55	10	RTHU	Ruby-throated Hummingbird	1						Possible	H							<i>Archiochloa colubris</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	WIWR	Winter Wren	2				1		Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	AMGO	American Goldfinch	1						Possible	S						1	<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	WTSP	White-throated Sparrow	2			1	1		Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	COYE	Common Yellowthroat	1						Possible	S							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	BBWA	Bay-breasted Warbler	1						Possible	S							<i>Dendroica castanea</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	REVI	Red-eyed Vireo	1						Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	DEJU	Dark-eyed Junco	2						Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	HETH	Hermit Thrush	2				1	1	Possible	S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	BLBW	Blackburnian Warbler	1						Possible	S							<i>Setophaga fusca</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	BCCH	Black-capped Chickadee	1						Possible	S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	AMCR	American Crow	1				1		Observed	X							<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	PAWA	Palm Warbler	1						Possible	S							<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	AMRO	American Robin	1						Possible	S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	BTNW	Black-throated Green Warbler	1						Possible	S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-06-19	Breeding	PC10	10:12	10	UNKN	Unknown	1																
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 1	11:03	30	CONI	Common Nighthawk	2				1	1	Probable	T							<i>Chordeiles minor</i>	7	
Carrie Jardine	Other	2024-06-19	Breeding	Area Search 1	11:03	30	WTSP	White-throated Sparrow	2				1	1	Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	MAWA	Magnolia Warbler	1					0	Possible	H,S							<i>Dendroica magnaolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	COYE	Common Yellowthroat	4			2	2		Probable	D							<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	REVI	Red-eyed Vireo	3			2	1		Possible	H,S						<i>Vireo olivaceus</i>	6		
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	WTSP	White-throated Sparrow	2			1	1		Possible	H,S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	BTNW	Black-throated Green Warbler	3			2	1		Possible	H,S							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	WIWR	Winter Wren	2			1	1		Possible	H,S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	AMRO	American Robin	5			2	2	1	Probable	A							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	NOFL	Northern Flicker	2			1	1		Possible	H,S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	YRWA	Yellow-rumped Warbler	1				1		Possible	H,S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	AMGO	American Goldfinch	2			2			Possible	H,S							<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	RECR	Red Crossbill	1			1			Possible	H							<i>Loxia curvirostra</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	HETH	Hermit Thrush	3				1	2	Possible	S,H							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	BAWW	Black-and-white Warbler	1				1		Possible	H,S							<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	DEJU	Dark-eyed Junco	1				1		Possible	H							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	BCCH	Black-capped Chickadee	1			0	1		Possible	H,S							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	CEDW	Cedar Waxwing	4			1			Possible	H,S						3	<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	COGR	Common Grackle	1			1			Possible	H							<i>Quiscalus quiscula</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC01	06:12	10	AMRE	American Redstart	1			1			Possible	H							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	OVEN	Ovenbird	2				2		Possible	H,S							<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	HETH	Hermit Thrush	3				1		Possible	H,S							<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	BTNW	Black-throated Green Warbler	4				4		Confirmed	NY							<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	CEDW	Cedar Waxwing	6			2	1		Possible	H,S							<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	WIWR	Winter Wren	2				2		Possible	H,S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	DEJU	Dark-eyed Junco	1			1			Possible	H,S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	AMRO	American Robin	2			1	1		Possible	H,S							<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	MAWA	Magnolia Warbler	2			1	1		Possible	H,S							<i>Dendroica magnaolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	BCCH	Black-capped Chickadee	4			3	1		Probable	N							<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	AMGO	American Goldfinch	1				1		Possible	H							<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	WTSP	White-throated Sparrow	1				1		Possible	S							<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	SWTH	Swainson's Thrush	1				1		Possible	S							<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	BHVI	Blue-headed Vireo	1				1		Possible	S							<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	YRWA	Yellow-rumped Warbler	1			1			Possible	S							<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	PIWO	Pileated Woodpecker	1					1	Possible	H							<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	RBNH	Red-breasted Nuthatch	1						Possible	H,S							<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	NOFL	Northern Flicker	1				1		Possible	S							<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	AMRE	American Redstart	1				1		Possible	S							<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	PISI	Pine Siskin	1				1		Possible	H							<i>Carduelis pinus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC02	06:35	10	REVI	Red-eyed Vireo	1				1		Possible	S							<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC03	07:00	10	DEJU	Dark-eyed Junco	2			1	1		Possible	S							<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC03	07:00	10	WIWR	Winter Wren	1						Possible	S							<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC03	07:00	10	HETH	Hermit Thrush	3				2	1	Possible	S									

Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
												<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	NOFL	Northern Flicker	1					0	1	Possible	S						<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	AMRO	American Robin	1					1		Possible	S						<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	COYE	Common Yellowthroat	1					1		Possible	S						<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	ALFL	Alder Flycatcher	1				1			Probable	A						<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	BAWW	Black-and-white Warbler	1				1			Possible	S						<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	BTNW	Black-throated Green Warbler	1				1			Possible	S						<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	BLJA	Blue Jay	1					1		Possible	S						<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	SWTH	Swainson's Thrush	1					1		Possible	S						<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	CAJA	Canada Jay	1					1		Possible	S						<i>Perisoreus canadensis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC05	07:54	10	RTHU	Ruby-throated Hummingbird	1				1										<i>Archilochus colubris</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	WTSF	White-throated Sparrow	2				1	1		Possible	S						<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	REVI	Red-eyed Vireo	2				1	1		Possible	S						<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	DEJU	Dark-eyed Junco	4				3	1		Possible	S						<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	BAWW	Black-and-white Warbler	1				1	1		Possible	S						<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	YBFL	Yellow-bellied Flycatcher	1				1			Possible	S						<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	BTNW	Black-throated Green Warbler	1				1			Possible	S						<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	WIWR	Winter Wren	1					1	0	Possible	S						<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	MAWA	Magnolia Warbler	1				1			Possible	S						<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	GCKI	Golden-crowned Kinglet	1				1			Possible	S						<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	COYE	Common Yellowthroat	1				1			Possible	S						<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	YRWA	Yellow-rumped Warbler	1				1			Possible	S						<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	PURF	Purple Finch	1				1			Possible	S						<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	CHSP	Chipping Sparrow	1				1	1		Possible	S						<i>Spizella passerina</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	HETH	Hermit Thrush	3				1	1		Possible	S						<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	CEDW	Cedar Waxwing	2				1	1		Possible	S						<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	SWTH	Swainson's Thrush	1				1	1		Possible	S						<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	NOFL	Northern Flicker	2				1	1		Possible	S						<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	CAJA	Canada Jay	2				2			Possible	S						<i>Perisoreus canadensis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	LEFL	Least Flycatcher	1				1			Possible	S						<i>Empidonax minimus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	PAWA	Palm Warbler	1				1			Possible	S						<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	NAWA	Nashville Warbler	1				0	1	1	Possible	S						<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC06	08:42	10	SOSP	Song Sparrow	1				1			Possible	S						<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	YRWA	Yellow-rumped Warbler	4				4			Confirmed	FY						<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	AMRE	American Redstart	1				1			Possible	S						<i>Setophaga ruticilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	DEJU	Dark-eyed Junco	3				2	1		Possible	S						<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	HETH	Hermit Thrush	1				1	1		Possible	S						<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	HETH	Hermit Thrush	3				1	2		Possible	S						<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	AMRO	American Robin	1				1			Possible	S						<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	NOFL	Northern Flicker	2				1	1		Possible	S						<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	HAWO	Hairy Woodpecker	1				1			Possible	S						<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	BTNW	Black-throated Green Warbler	1				1			Possible	S						<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	PAWA	Palm Warbler	2				1	1		Confirmed	FY						<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	BAWW	Black-and-white Warbler	2				2			Possible	S						<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	BCCH	Black-capped Chickadee	1				1			Confirmed	FY						<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	COYE	Common Yellowthroat	1				1			Possible	S						<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	REVI	Red-eyed Vireo	2				1	1		Possible	S						<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	CEDW	Cedar Waxwing	3				2	1		Confirmed	FY						<i>Bombycilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	MAWA	Magnolia Warbler	1				1	0		Possible	S						<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	NOPA	Northern Parula	4				1	4		Observed	S						<i>Parula americana</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	BHVI	Blue-headed Vireo	1				1			Possible	S						<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC07	09:09	10	SWTH	Swainson's Thrush	2					2		Possible	S						<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	REVI	Red-eyed Vireo	1				1			Possible	S						<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	WTSF	White-throated Sparrow	2				2			Possible	S						<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	NOFL	Northern Flicker	1				1			Possible	S						<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	COYE	Common Yellowthroat	2				2			Possible	S						<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	AMRO	American Robin	3				1	2		Possible	S						<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	NAWA	Nashville Warbler	2				2			Possible	S						<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	HETH	Hermit Thrush	1				1			Possible	S						<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	WIWR	Winter Wren	1				1			Possible	S						<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	BCCH	Black-capped Chickadee	1				1			Possible	S						<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	PAWA	Palm Warbler	3				3			Possible	S						<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	MODO	Mourning Dove	1				1			Possible	S						<i>Zenaidura macroura</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	HAWO	Hairy Woodpecker	1				1			Possible	S						<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	BHVI	Blue-headed Vireo	2				0	2		Possible	S						<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	AMGO	American Goldfinch	1				1			Possible	S						<i>Carduelis tristis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	YRWA	Yellow-rumped Warbler	3				3			Possible	S						<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	BAWW	Black-and-white Warbler	1				1			Possible	S						<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	BTNW	Black-throated Green Warbler	2				2			Possible	S						<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	MAWA	Magnolia Warbler	2				2			Possible	S						<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	PC08	09:31	10	CEDW	Cedar																	

Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Other	2024-07-11	Breeding	PC10	10:42	10	RECR	Red Crossbill	2						Possible	H							<i>Loxia curvirostra</i>	6		
Carrie Jardine	Other	2024-07-11	Breeding	PC10	10:42	10	BAWW	Black-and-white Warbler	1						Probable	T								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	DEJU	Dark-eyed Junco	7			3	4		Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	SWSP	Swamp Sparrow	1			1			Possible	S								<i>Melospiza georgiana</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	COYE	Common Yellowthroat	7			6	1		Probable	A								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	YRWA	Yellow-rumped Warbler	7			2	3	2	Confirmed	FY								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	BTNW	Black-throated Green Warbler	2			1	1		Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	WTSP	White-throated Sparrow	10			5	4	1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	NAWA	Nashville Warbler	1			1			Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	OSFL	Olive-sided Flycatcher	1			1			Probable	T								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	HETH	Hermit Thrush	8			1	4	3	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	CEDW	Cedar Waxwing	8			5	2	1	Confirmed	NY								<i>Bombcilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	TRES	Tree Swallow	1			1			Observed									<i>Tachycineta bicolor</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	AMRO	American Robin	2			1	1		Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	HAWO	Hairy Woodpecker	2			1	1		Probable	A								<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	MAWA	Magnolia Warbler	3			1	2		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	PURF	Purple Finch	2			1		1	Probable	D								<i>Carpodacus purpureus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	CMWA	Cape May Warbler	1			1			Probable	P								<i>Dendroica birgma</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	PIWO	Pileated Woodpecker	1			1			Possible	H								<i>Dryocopus pileatus</i>	7	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	SWTH	Swainson's Thrush	2			3	2		Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	OVEN	Ovenbird	1			1			Possible	S								<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	RBNU	Red-breasted Nuthatch	1			1			Possible	H								<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	REVI	Red-eyed Vireo	1			1			Possible	S								<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-11	Breeding	Area Search 2	11:40	30	BHVI	Blue-headed Vireo	1			1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	OSFL	Olive-sided Flycatcher	2				2		Probable	T								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	COYE	Common Yellowthroat	4			2	2		Possible	S,H								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	OVEN	Ovenbird	2				1	1	Possible	S								<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	HETH	Hermit Thrush	4				3	1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	WTSP	White-throated Sparrow	4			1		2	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	BLJA	Blue Jay	2				2		Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	WIWR	Winter Wren	2			1	1		Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	AMRO	American Robin	1			1			Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	GCKI	Golden-crowned Kinglet	1			1			Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	BHVI	Blue-headed Vireo	1			1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	DEJU	Dark-eyed Junco	1			1			Possible	H								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	ALFL	Alder Flycatcher	1			1			Possible	H								<i>Empidonax alnorum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC17	06:02	10	PAWA	Palm Warbler	1				1		Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	HETH	Hermit Thrush	3			2		1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	DEJU	Dark-eyed Junco	3			3			Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	AMRO	American Robin	3				1		Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	YRWA	Yellow-rumped Warbler	2			0	2		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	WIWR	Winter Wren	1			1			Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	GCKI	Golden-crowned Kinglet	1			1			Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	COYE	Common Yellowthroat	2			0	2		Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	HAWO	Hairy Woodpecker	1				1		Possible	S								<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	MAWA	Magnolia Warbler	1			0	1		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	WTSP	White-throated Sparrow	3			2	1		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	BLJA	Blue Jay	1				1		Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	OSFL	Olive-sided Flycatcher	1				1		Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC21	06:43	10	BHVI	Blue-headed Vireo	1			1			Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	CEDW	Cedar Waxwing	2			2			Possible	H,S								<i>Bombcilla cedrorum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	WTSP	White-throated Sparrow	2			1	1		Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	HETH	Hermit Thrush	2				1	1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	AMRO	American Robin	5			4	1		Confirmed	FY								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	BLJA	Blue Jay	1			1			Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	COYE	Common Yellowthroat	1			1			Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	GCKI	Golden-crowned Kinglet	1			1			Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	DEJU	Dark-eyed Junco	2			2			Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	YRWA	Yellow-rumped Warbler	2				0		Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	MAWA	Magnolia Warbler	1				1		Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	WIWR	Winter Wren	1				1		Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	COLO	Common Loon	1				1		Possible	S								<i>Gavia immer</i>	3	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	OSFL	Olive-sided Flycatcher	2				1	1	Possible	S								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	PAWA	Palm Warbler	1			1			Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC20	07:08	10	HAWO	Hairy Woodpecker	1			1			Probable	A								<i>Picoides villosus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	PC18	07:58	10	WIWR	Winter Wren	1			1			Possible	S					</					



Table 24: Species Data - 2024 Breeding Bird Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Other	2024-07-17	Breeding	PC12	09:55	10	REVI	Red-eyed Vireo	1						Possible	S							<i>Vireo olivaceus</i>	6		
Carrie Jardine	Other	2024-07-17	Breeding	PC12	09:55	10	RCKI	Ruby-crowned Kinglet	1						Possible	S								<i>Regulus calendula</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC12	09:55	10	SOSP	Song Sparrow	1					1	Possible	S								<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	YRWA	Yellow-rumped Warbler	1						Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	BTNW	Black-throated Green Warbler	2						Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	DEJU	Dark-eyed Junco	1						Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	GCKI	Golden-crowned Kinglet	1						Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	BCCH	Black-capped Chickadee	1						Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	RBNH	Red-breasted Nuthatch	1						Possible	S								<i>Sitta canadensis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	SOSP	Song Sparrow	1						Possible	H,S								<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	MAWA	Magnolia Warbler	1					1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	WTSP	White-throated Sparrow	1						Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	HETH	Hermit Thrush	2					1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	NAWA	Nashville Warbler	1						Possible	S								<i>Vermivora ruficapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	NOFL	Northern Flicker	1					1	Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	CEDW	Cedar Waxwing	1						Possible	S								<i>Bombicila cedrorum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	WIWR	Winter Wren	1						Possible	S								<i>Troglodytes troglodytes</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	TEWA	Tennessee Warbler	1						Possible	S								<i>Leiothlypis peregrina</i>	6	6
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	COYE	Common Yellowthroat	2					1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	RCKI	Ruby-crowned Kinglet	1						Possible	S								<i>Regulus calendula</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	SWTH	Swainson's Thrush	1						Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	YBFL	Yellow-bellied Flycatcher	1						Possible	S								<i>Empidonax flaviventris</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC15	10:13	10	CAJA	Canada Jay	1						Possible	S								<i>Perisoreus canadensis</i>	6	6
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	CEDW	Cedar Waxwing	4						Confirmed	FY								<i>Bombicila cedrorum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	BAWW	Black-and-white Warbler	1						Possible	S								<i>Mniotilta varia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	HETH	Hermit Thrush	2					1	Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	MAWA	Magnolia Warbler	3					1	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	COYE	Common Yellowthroat	4					3	Confirmed	FY,DD								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	RBRG	Rose-breasted Grosbeak	1						Possible	S								<i>Pheucticus ludovicianus</i>	6	6
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	DEJU	Dark-eyed Junco	2					2	Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	WTSP	White-throated Sparrow	2					1	Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	CHSP	Chipping Sparrow	1					0	Possible	S								<i>Spizella passerina</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	AMRO	American Robin	1						Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	BCCH	Black-capped Chickadee	1						Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	BTNW	Black-throated Green Warbler	1						Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	YRWA	Yellow-rumped Warbler	2						Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	NOFL	Northern Flicker	4						Confirmed	FY								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	REVI	Red-eyed Vireo	1						Possible	S								<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC13	10:35	10	PAWA	Palm Warbler	2						Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	BTNW	Black-throated Green Warbler	2						Confirmed	FY,DD								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	REVI	Red-eyed Vireo	2						Possible	S								<i>Vireo olivaceus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	HETH	Hermit Thrush	2						Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	AMRO	American Robin	2					1	Possible	S								<i>Turdus migratorius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	COYE	Common Yellowthroat	2					1	Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	RUGR	Ruffed Grouse	1						Possible	S								<i>Bonasa umbellus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	MAWA	Magnolia Warbler	3					2	Possible	S								<i>Dendroica magnolia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	GCKI	Golden-crowned Kinglet	1						Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	BLJA	Blue Jay	1						Possible	S								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	DEJU	Dark-eyed Junco	2					2	Possible	S								<i>Junco hyemalis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	WTSP	White-throated Sparrow	1						Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	PC14	11:00	10	BTBW	Black-throated Blue Warbler	1						Possible	S								<i>Dendroica caerulescens</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	COYE	Common Yellowthroat	1						Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	HETH	Hermit Thrush	1						Possible	S								<i>Catharus guttatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	PAWA	Palm Warbler	1						Possible	S								<i>Dendroica palmarum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	BTNW	Black-throated Green Warbler	1						Possible	S								<i>Dendroica virens</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	COYE	Common Yellowthroat	1						Possible	S								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	WTSP	White-throated Sparrow	2						Possible	S								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	NOFL	Northern Flicker	1						Possible	S								<i>Colaptes auratus</i>	7	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	SOSP	Song Sparrow	2						Possible	S								<i>Melospiza melodia</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	CONI	Common Nighthawk	2						Possible	S								<i>Chordeiles minor</i>	6	7
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	CEDW	Cedar Waxwing	1						Possible	S								<i>Bombicila cedrorum</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	OSFL	Olive-sided Flycatcher	1						Probable	T,A								<i>Contopus cooperi</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	OVEN	Ovenbird	1						Possible	S								<i>Seiurus aurocapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	BHVI	Blue-headed Vireo	1						Possible	S								<i>Vireo solitarius</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	YRWA	Yellow-rumped Warbler	2						Possible	S								<i>Dendroica coronata</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	GCKI	Golden-crowned Kinglet	1						Possible	S								<i>Regulus satrapa</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	SWTH	Swainson's Thrush	1						Possible	S								<i>Catharus ustulatus</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	BCCH	Black-capped Chickadee	1						Possible	S								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Other	2024-07-17	Breeding	Area Search 2	11:40	30	PUFI	Purple Finch	1	</																

Table 25: Species Summary - 2024 Common Nighthawk Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	3
American Redstart	<i>Setophaga ruticilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	12
Barred Owl	<i>Strix varia</i>	5	Not Listed	Not Listed	Not Listed	S5	1
Black-and-white Warbler	<i>Mniotilta varia</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	2
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Boreal Chickadee	<i>Poecile hudsonica</i>	6	Not Listed	Not Listed	Not Listed	S3	2
Cedar Waxwing	<i>Bombycilla cedrorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Common Grackle	<i>Quiscalus quiscula</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Common Nighthawk	<i>Chordeiles minor</i>	6	Special Concern	Special Concern	Threatened	S3B	29
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	10
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	4
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	1
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	21
Magnolia Warbler	<i>Setophaga magnolia</i>	6	Not Listed	Not Listed	Not Listed	S5B	5
Nashville Warbler	<i>Leiothlypis ruficapilla</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	5	Not Listed	Not Listed	Not Listed	S4B,SUM	1
Olive-sided Flycatcher	<i>Contopus cooperi</i>	6	Special Concern	Special Concern	Threatened	S3B	1
Ovenbird	<i>Seiurus aurocapilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Purple Finch	<i>Haemorhous purpureus</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	2
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	1
Red-eyed Vireo	<i>Vireo olivaceus</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Swainson's Thrush	<i>Catharus ustulatus</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	7
Tennessee Warbler	<i>Leiothlypis peregrina</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S5M	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	9
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	2

Table 26: Species Summary - 2024 Common Nighthawk Survey Data - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		CONI	Common Nighthawk	4	1	3		Probable	T						<i>Chordeiles minor</i>	7		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		HETH	Hermit Thrush	2	1	1		Probable	T						<i>Catharus guttatus</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		COYE	Common Yellowthroat	1	1			Probable	T						<i>Geothlypis trichas</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		DEJU	Dark-eyed Junco	1		1		Possible	S						<i>Junco hyemalis</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		WTSP	White-throated Sparrow	1	1			Possible	S						<i>Zonotrichia albicollis</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 7	21:08		OSFL	Olive-sided Flycatcher	1		1		Probable	T,A						<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 5	21:50		CONI	Common Nighthawk	2	2			Possible	S						<i>Chordeiles minor</i>	7		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 5	21:50		WTSP	White-throated Sparrow	1	1			Possible	S						<i>Zonotrichia albicollis</i>	6		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 6	22:06		NSWO	Northern Saw-whet Owl	1		1		Possible	S						<i>Aegolius acadicus</i>	5		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 10	22:40		BDOW	Barred Owl	1		1		Possible	S						<i>Strix varia</i>	5		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 9	23:17																		
Carrie Jardine	Other	26-Jun-24	Nightjar	CONI 8	23:44																		
Ben MacNeill	Samantha Stegen	26-Jun-24	Nightjar	CONI 4	21:02		CONI	Common Nighthawk	3	2	1		Possible	H						<i>Chordeiles minor</i>	7		
Ben MacNeill	Samantha Stegen	26-Jun-24	Nightjar	CONI 3	21:32		CONI	Common Nighthawk	1	1			Possible	H						<i>Chordeiles minor</i>	6		
Ben MacNeill	Samantha Stegen	26-Jun-24	Nightjar	CONI 1	22:13																		
Ben MacNeill	Samantha Stegen	26-Jun-24	Nightjar	CONI 2	22:30																		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 2	19:51		CONI	Common Nighthawk	3		3		Probable	D						<i>Chordeiles minor</i>	7		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 2	19:51		HETH	Hermit Thrush	2	2			Possible	S						<i>Catharus guttatus</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 2	19:51		DEJU	Dark-eyed Junco	1		1		Possible	S						<i>Junco hyemalis</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 1	20:14		COYE	Common Yellowthroat	2		2		Possible	S						<i>Geothlypis trichas</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 1	20:14		WTSP	White-throated Sparrow	1		1		Possible	S						<i>Zonotrichia albicollis</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 1	20:14		HETH	Hermit Thrush	2		2		Possible	S						<i>Catharus guttatus</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 1	20:14		REVI	Red-eyed Vireo	1		1		Possible	S						<i>Vireo olivaceus</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 1	20:14		BAWW	Black-and-white Warbler	1		1		Possible	S						<i>Mniotilta varia</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		CONI	Common Nighthawk	2		2		Probable	D						<i>Chordeiles minor</i>	7		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		HETH	Hermit Thrush	3		3		Possible	S						<i>Catharus guttatus</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		AMRO	American Robin	1		1		Possible	S						<i>Turdus migratorius</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		MAWA	Magnolia Warbler	1		1		Possible	S						<i>Setophaga magnolia</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		BAWW	Black-and-white Warbler	1		1		Possible	S						<i>Mniotilta varia</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		BTNW	Black-throated Green Warbler	1		1		Possible	S						<i>Setophaga virens</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 3	21:00		COYE	Common Yellowthroat	1		1		Possible	S						<i>Geothlypis trichas</i>	6		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 4	21:28		CONI	Common Nighthawk	4		4		Probable	D						<i>Chordeiles minor</i>	7		
Jordan H. Davis	Other	2024-Jul-10	Nightjar	CONI 4	21:28		HETH	Hermit Thrush	2		2		Possible	S						<i>Catharus guttatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		GCKI	Golden-crowned Kinglet	2		2		Possible	H						<i>Regulus satrapa</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		DEJU	Dark-eyed Junco	2	2			Possible	H						<i>Junco hyemalis</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		SWTH	Swainson's Thrush	1		1		Possible	H						<i>Catharus ustulatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		HETH	Hermit Thrush	3	1	1		Possible	H						<i>Catharus guttatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		AMRE	American Redstart	1		1		Possible	H						<i>Setophaga ruticilla</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		AMRO	American Robin	3		2		Possible	H						<i>Turdus migratorius</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		MAWA	Magnolia Warbler	2	1	1		Possible	H						<i>Setophaga magnolia</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		YRWA	Yellow-rumped Warbler	1		1		Possible	H						<i>Setophaga coronata</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		PAWA	Palm Warbler	1		1		Possible	H						<i>Setophaga palmarum</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		BLJA	Blue Jay	1		1		Possible	H						<i>Cyanocitta cristata</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		BCCH	Black-capped Chickadee	1		1		Possible	H						<i>Poecile atricapillus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		HAWO	Hairy Woodpecker	1		1		Possible	H						<i>Dryobates villosus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		AMCR	American Crow	3		3		Possible	H						<i>Corvus brachyrhynchos</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		CORA	Common Raven	1	1			Possible	S						<i>Corvus corax</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 6	20:49		CONI	Common Nighthawk	3	1	2		Possible	S						<i>Chordeiles minor</i>	7		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		SWTH	Swainson's Thrush	3	1	1		Possible	H						<i>Catharus ustulatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		HETH	Hermit Thrush	4		4		Possible	H						<i>Catharus guttatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		AMRO	American Robin	3		3		Possible	H						<i>Turdus migratorius</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		AMRE	American Redstart	1		1		Possible	H						<i>Setophaga ruticilla</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		YRWA	Yellow-rumped Warbler	1		1		Possible	H						<i>Setophaga coronata</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		BTNW	Black-throated Green Warbler	1	1			Possible	H						<i>Setophaga virens</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		RTHU	Ruby-throated Hummingbird	1	1			Possible	S						<i>Archilochus colubris</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		DEJU	Dark-eyed Junco	2	2			Possible	H						<i>Junco hyemalis</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		WTSP	White-throated Sparrow	2		2		Possible	H						<i>Zonotrichia albicollis</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		CEDW	Cedar Waxwing	2	2			Possible	S						<i>Bombicilla cedrorum</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		PUFI	Purple Finch	2	2			Possible	H						<i>Haemorhous purpureus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		GCKI	Golden-crowned Kinglet	2	1	1		Possible	H						<i>Regulus satrapa</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		BOCH	Boreal Chickadee	1		1		Possible	H						<i>Poecile hudsonicus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		NAWA	Nashville Warbler	1		1		Possible	H						<i>Leiostyris alpestris</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		MAWA	Magnolia Warbler	2		2		Possible	H						<i>Setophaga magnolia</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		BCCH	Black-capped Chickadee	2		2		Possible	H						<i>Poecile atricapillus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		CORA	Common Raven	1		1		Possible	S						<i>Corvus corax</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 5	21:11		CONI	Common Nighthawk	3	1	1		Probable	D						<i>Chordeiles minor</i>	7		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		RCKI	Ruby-crowned Kinglet	1		1		Possible	H						<i>Corthylio calendula</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		TEWA	Tennessee Warbler	1		1		Possible	H						<i>Leiostyris peregrina</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		COGR	Common Grackle	2		2		Possible	S						<i>Quiscalus quiscula</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		CORA	Common Raven	1		1		Possible	S						<i>Corvus corax</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		AMRO	American Robin	3		3		Possible	S						<i>Turdus migratorius</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		PAWA	Palm Warbler	1	1			Possible	S						<i>Setophaga palmarum</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		SWTH	Swainson's Thrush	3		3		Possible	S						<i>Catharus ustulatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		HETH	Hermit Thrush	1		1		Possible	S						<i>Catharus guttatus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		BOCH	Boreal Chickadee	1		1		Possible	H						<i>Poecile hudsonicus</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 9	21:50		DEJU	Dark-eyed Junco	3	1	2		Possible	H						<i>Junco hyemalis</i>	6		
Logan Lalonde	Rohan Kariyawansa	2024-Jul-10	Nightjar	CONI 7	22:36		OVEN	Ovenbird	1		1		Possible	H						<i>Seiurus aurocapilla</i>			



**Table 27: Species Summary - 2024 Nocturnal Owl Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Common loon	<i>Gavia immer</i>	3	Not Listed	Not at Risk	Not Listed	S4B	1
Great Horned Owl	<i>Bubo virginianus</i>	5	Not Listed	Not Listed	Not Listed	S4	1
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	5	Not Listed	Not Listed	Not Listed	S4B,SUM	2

Table 28: Species Data - 2024 Nocturnal Owl Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Ben MacNeill	Other	2024-Apr-22	Nocturnal Owls	OWL13	20:40																		
Ben MacNeill	Other	2024-Apr-23	Nocturnal Owls	OWL12	21:07																		
Ben MacNeill	Other	2024-Apr-23	Nocturnal Owls	OWL11	21:30		NSWO	Northern Saw-whet Owl	1			Possible	S			1					<i>Aegolius acadicus</i>	5	
Ben MacNeill	Other	2024-Apr-23	Nocturnal Owls	OWL 14	21:47																		
Ben MacNeill	Other	2024-Apr-23	Nocturnal Owls	OWL 10	22:08		GHOW	Great Horned Owl	1			Possible	S			1					<i>Bubo virginianus</i>	5	
Ben MacNeill	Other	2024-Apr-22	Nocturnal Owls	OWL8	22:39		NSWO	Northern Saw-whet Owl	1			Possible	S								<i>Aegolius acadicus</i>	5	
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL9	22:54																		
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL 7	21:06																		
Ben MacNeill	Other	2024-Apr-23	Nocturnal Owls	OWL6	21:28		COLO	Common loon	1								1				<i>Gavia immer</i>	3	
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL5	21:45																		
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL 4	22:23																		
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL2	22:55																		
Ben MacNeill	Other	2024-Apr-24	Nocturnal Owls	OWL1	23:10																		

Table 29: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	NSESA	NS_Srank	Number Observed
American Crow	Corvus brachyrhynchos	6	Not Listed	Not Listed	Not Listed	S5	42
American Goldfinch	Spinus tristis	6	Not Listed	Not Listed	Not Listed	S5	55
American Robin	Turdus migratorius	6	Not Listed	Not Listed	Not Listed	S5B,S3N	74
Barred Owl	Strix varia	5	Not Listed	Not Listed	Not Listed	S5	2
Black-and-white Warbler	Mniotilta varia	6	Not Listed	Not Listed	Not Listed	S5B	11
Black-capped Chickadee	Poecile atricapilla	6	Not Listed	Not Listed	Not Listed	S5	133
Blackpoll Warbler	Setophaga striata	6	Not Listed	Not Listed	Not Listed	S3B,S5M	6
Black-throated Green Warbler	Setophaga virens	6	Not Listed	Not Listed	Not Listed	S5	3
Blue Jay	Cyanocitta cristata	6	Not Listed	Not Listed	Not Listed	S5	98
Blue-headed Vireo	Vireo solitarius	6	Not Listed	Not Listed	Not Listed	S5B	14
Boreal Chickadee	Poecile hudsonica	6	Not Listed	Not Listed	Not Listed	S3	4
Broad-winged Hawk	Buteo platypterus	4	Not Listed	Not Listed	Not Listed	S5B	2
Brown Creeper	Certhia americana	6	Not Listed	Not Listed	Not Listed	S5	4
Canada Goose	Branta canadensis	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	7
Canada Jay	Perisoreus canadensis	6	Not Listed	Not Listed	Not Listed	S3	37
Canada Warbler	Cardellina canadensis	6	Threatened	Special Concern	Endangered	S3B	2
Cape May Warbler	Setophaga tigrina	6	Not Listed	Not Listed	Not Listed	S3B,SUM	2
Cedar Waxwing	Bombycilla cedrorum	6	Not Listed	Not Listed	Not Listed	S5B	38
Common Grackle	Quiscalus quiscula	6	Not Listed	Not Listed	Not Listed	S5B	1
Common Loon	Gavia immer	3	Not Listed	Not at Risk	Not Listed	S4B	17
Common Raven	Corvus corax	6	Not Listed	Not Listed	Not Listed	S5	38
Common Yellowthroat	Geothlypis trichas	6	Not Listed	Not Listed	Not Listed	S5B	35
Dark-eyed Junco	Junco hyemalis	6	Not Listed	Not Listed	Not Listed	S4S5	104
Downy Woodpecker	Dryobates pubescens	7	Not Listed	Not Listed	Not Listed	S5	8
Golden-crowned Kinglet	Regulus satrapa	6	Not Listed	Not Listed	Not Listed	S5	54
Great Horned Owl	Bubo virginianus	5	Not Listed	Not Listed	Not Listed	S4	1
Hairy Woodpecker	Dryobates villosus	7	Not Listed	Not Listed	Not Listed	S5	15
Hermit Thrush	Catharus guttatus	6	Not Listed	Not Listed	Not Listed	S5B	28
Herring Gull	Larus argentatus	2	Not Listed	Not Listed	Not Listed	S5	4
Magnolia Warbler	Setophaga magnolia	6	Not Listed	Not Listed	Not Listed	S5B	4
Merlin	Falco columbarius	4	Not Listed	Not at Risk	Not Listed	S5B	2
Mourning Dove	Zenaida macroura	7	Not Listed	Not Listed	Not Listed	S5	6
Northern Cardinal	Cardinalis cardinalis	6	Not Listed	Not Listed	Not Listed	S4	3
Northern Flicker	Colaptes auratus	7	Not Listed	Not Listed	Not Listed	S5B	59
Northern Goshawk	Accipiter gentilis	4	Not Listed	Not at Risk	Not Listed	S3S4	1
Northern Parula	Setophaga americana	6	Not Listed	Not Listed	Not Listed	S5B	2
Olive-sided Flycatcher	Contopus cooperi	6	Special Concern	Special Concern	Threatened	S3B	3
Palm Warbler	Setophaga palmarum	6	Not Listed	Not Listed	Not Listed	S5B	33
Philadelphia Vireo	Vireo philadelphicus	6	Not Listed	Not Listed	Not Listed	S2?B,SUM	3
Pileated Woodpecker	Dryocopus pileatus	7	Not Listed	Not Listed	Not Listed	S5	9
Pine Grosbeak	Pinicola enucleator	6	Not Listed	Not Listed	Not Listed	S3B,S5N,S5M	1
Purple Finch	Haemorhous purpureus	6	Not Listed	Not Listed	Not Listed	S5B,S3S4N,S5	4

**Table 29: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Common name	Scientific Name	Bird Group	SARA	COSEWIC	NSESA	NS_Srank	Number Observed
Red Crossbill	<i>Loxia curvirostra</i>	6	Not Listed	Not Listed	Not Listed	S3S4	4
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	25
Red-eyed Vireo	<i>Vireo olivaceus</i>	6	Not Listed	Not Listed	Not Listed	S5B	6
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	4
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	2
Ruffed Grouse	<i>Bonasa umbellus</i>	7	Not Listed	Not Listed	Not Listed	S5	6
Rusty Blackbird	<i>Euphagus carolinus</i>	6	Special Concern	Special Concern	Endangered	S2B	1
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	14
Spruce Grouse	<i>Canachites canadensis</i>	7	Not Listed	Not Listed	Not Listed	S4	2
Swainson's Thrush	<i>Catharus ustulatus</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	2
Swamp Sparrow	<i>Melospiza georgiana</i>	6	Not Listed	Not Listed	Not Listed	S5B	11
White-breasted Nuthatch	<i>Sitta carolinensis</i>	6	Not Listed	Not Listed	Not Listed	S4	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	32
White-winged Crossbill	<i>Loxia leucoptera</i>	6	Not Listed	Not Listed	Not Listed	S4S5	3
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Yellow Warbler	<i>Setophaga petechia</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	7	Not Listed	Not Listed	Not Listed	S5B	2
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	17

Table 30: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	AMRO	American Robin	4				Observed	X							Turdus migratorius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	BLJA	Blue Jay	2	1	1	2	Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	RBNL	Red-breasted Nuthatch	1		1		Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	NOFL	Northern Flicker	4	2	1		Confirmed	NY		1					Colaptes auratus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	COYE	Common Yellowthroat	2	1	1	0	Observed	X							Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	COLO	Common Loon	2			2	Observed	X							Gavia immer	3	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	SOSP	Song Sparrow	2		2		Observed	X							Melospiza melodia	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	BHVI	Blue-headed Vireo	1	1		2	Observed	X							Vireo solitarius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	CEW	Cedar Waxwing	3			3	Observed	X							Bombycilla cedrorum	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	DEJU	Dark-eyed Junco	3	2	1		Observed	X							Junco hyemalis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	PAWA	Palm Warbler	1	1			Observed	X							Setophaga palmarum	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC17	06:41	10	DOWD	Downy Woodpecker	1	1			Observed	X							Dryobates pubescens	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	BLJA	Blue Jay	1	1			Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	NOFL	Northern Flicker	1	1			Observed	X							Colaptes auratus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	AMRO	American Robin	1	1			Observed	X							Turdus migratorius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	BCCH	Black-capped Chickadee	4	2	2		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	REVI	Red-eyed Vireo	1	1			Observed	X							Vireo olivaceus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	HETH	Hermit Thrush	1	1			Observed	X							Catharus guttatus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	BHVI	Blue-headed Vireo	1	1			Observed	X							Vireo solitarius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	COLO	Common Loon	2			2	Observed	X							Gavia immer	3	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	RBNL	Red-breasted Nuthatch	1	1			Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	CEW	Cedar Waxwing	1		1		Observed	X							Bombycilla cedrorum	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	COYE	Common Yellowthroat	2		2		Observed	X							Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	HERG	Herring Gull	1			1	Observed	X							Larus argentatus	2	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	MODO	Mourning Dove	1	0	1		Observed	X							Zenaidura macroura	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	SOSP	Song Sparrow	1			1	Observed	X							Melospiza melodia	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	RUBL	Rusty Blackbird	1	1			Observed	X							Euphagus carolinus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC19	07:08	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	CORA	Common Raven	1	3	0	1	Observed	X							Corvus corax	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	DEJU	Dark-eyed Junco	6	6			Observed	X							Junco hyemalis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	RBNL	Red-breasted Nuthatch	2	2			Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	CEW	Cedar Waxwing	1	1			Observed	X							Bombycilla cedrorum	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	NOFL	Northern Flicker	5		3	1	Observed	X			1				Colaptes auratus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	BLJA	Blue Jay	2			3	Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	AMRO	American Robin	3	2	1		Observed	X							Turdus migratorius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	COLO	Common Loon	1			1	Observed	X							Gavia immer	3	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	HERG	Herring Gull	1			1	Observed	X							Larus argentatus	2	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	MERL	Merlin	1	2	1		Observed	X							Falco columbarius	4	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	SOSP	Song Sparrow	1	1			Observed	X							Melospiza melodia	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	AMGO	American Goldfinch	3	0			Observed	X							Spinus tristis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	GCKI	Golden-crowned Kinglet	1	1			Observed	X			3				Regulus satrapa	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	MODO	Mourning Dove	1	1			Observed	X			0				Zenaidura macroura	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	WTSF	White-throated Sparrow	1	1			Observed	X							Zonotrichia albicollis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC21	07:36	10	COYE	Common Yellowthroat	1	1			Observed	X							Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	BLJA	Blue Jay	4		3	1	Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	COLO	Common Loon	1			0	Observed	X							Gavia immer	3	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	COYE	Common Yellowthroat	1	1	1		Probable	A							Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	NOFL	Northern Flicker	2		2		Observed	X							Colaptes auratus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	PHVI	Philadelphia Vireo	1	1			Observed	X							Vireo philadelphicus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	AMGO	American Goldfinch	1			1	Observed	X							Spinus tristis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	BHVI	Blue-headed Vireo	1	1			Observed	X							Vireo solitarius	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	HAWO	Hairy Woodpecker	1		1		Observed	X							Dryobates villosus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	RBNL	Red-breasted Nuthatch	1	1			Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	HETH	Hermit Thrush	1	1			Observed	X							Catharus guttatus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	MAWA	Magnolia Warbler	1				Observed	X							Setophaga ruticilla	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	BAWW	Black-and-white Warbler	1	1			Observed	X							Mniotilta varia	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC20	08:06	10	PIWO	Pileated Woodpecker	1				Observed	X			1				Dryocopus pileatus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	NOFL	Northern Flicker	1			1	Observed	X							Colaptes auratus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	AMGO	American Goldfinch	1	1			Observed	X							Spinus tristis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	BLJA	Blue Jay	2	2			Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	BCCH	Black-capped Chickadee	4	3	1		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	PIWO	Pileated Woodpecker	1				Observed	X							Dryocopus pileatus	7	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	HETH	Hermit Thrush	1			1	Observed	X							Catharus guttatus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	PHVI	Philadelphia Vireo	1	1			Observed	X							Vireo philadelphicus	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	YRWA	Yellow-rumped Warbler	1	1	0		Observed	X							Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	WTRW	Winter Wren	1				Observed	X							Troglodytes aedon	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	RBNL	Red-breasted Nuthatch	1	1			Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC18	08:44	10	HERG	Herring Gull	1			1	Observed	X							Larus argentatus	2	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC11	10:10	10	BLJA	Blue Jay	1	1			Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC11	10:10	10	BCCH	Black-capped Chickadee	1	1			Observed	X							Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC11	10:10	10	RBNL	Red-breasted Nuthatch	1			1	Observed	X							Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC11	10:10	10	CEW	Cedar Waxwing	9	2			Observed	X			1				Bombycilla cedrorum	6	
Carrie Jardine	Samantha Stegen	22-Aug-24	Fall Migration	PC11	10:10	10	NOFL																

Table 30: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	PIWO	Pileated Woodpecker	1				Observed	X							Dryocopus pileatus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	BCCH	Black-capped Chickadee	1				Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	GCKI	Golden-crowned Kinglet	2	2			Observed	X							Regulus satrapa		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	WTSF	White-throated Sparrow	1	1			Observed	X							Zonotrichia albicollis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	NOFL	Northern Flicker	2		1		Observed	X							Colaptes auratus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	BAWW	Black-and-white Warbler	1	1			Observed	X							Mniotilta varia		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	RBNL	Red-breasted Nuthatch	2	1			Observed	X							Sitta canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	BLJA	Blue Jay	1		1		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	MAWA	Magnolia Warbler	1	1			Observed	X							Setophaga magnolia		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	DOWO	Downy Woodpecker	1		1		Observed	X							Dryobates pubescens		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC8	06:55	10	COYE	Common Yellowthroat	1	1			Observed	X							Geothlypis trichas		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	BLJA	Blue Jay	3	1	2		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	AMRO	American Robin	1		1		Observed	X							Turdus migratorius		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	BCCH	Black-capped Chickadee	1	1			Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	RBNL	Red-breasted Nuthatch	1	1			Observed	X							Sitta canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	CAWA	Canada Warbler	1		1		Observed	X							Cardellina canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	CAJA	Canada Jay	2	1	1		Observed	X							Perisoreus canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	CORA	Common Raven	2		1		Observed	X							Corvus corax		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	CAJA	Canada Jay	1				Observed	X			1				Perisoreus canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC9	07:21	10	COGR	Common Grackle	1	1			Observed	X							Quiscalus quiscula		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	BLJA	Blue Jay	3	1	1		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	BAWW	Black-and-white Warbler	1	1			Observed	X							Mniotilta varia		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	AMCR	American Crow	1				Observed	X							Corvus brachyrhynchos		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	AMGO	American Goldfinch	2		2		Observed	X							Spinus tristis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	CAJA	Canada Jay	6	5			Observed	X							Perisoreus canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	NOFL	Northern Flicker	2		1		Observed	X							Colaptes auratus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	COYE	Common Yellowthroat	2	2	0		Probable	A							Geothlypis trichas		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	CORA	Common Raven	1				Observed	X							Corvus corax		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	HAWO	Hairy Woodpecker	1	0			Observed	X			1				Dryobates villosus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	CMWA	Cape May Warbler	1	1			Observed	X							Setophaga tigrina		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	AMRO	American Robin	1	1			Observed	X							Turdus migratorius		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	NOCA	Northern Cardinal	1	1			Observed	X							Cardinalis cardinalis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	SWSP	Swamp Sparrow	1	1			Observed	X							Melospiza georgiana		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC4	07:45	10	NOFA	Northern Parula	1	1			Observed	X							Setophaga americana		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	BLJA	Blue Jay	2		2		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	COYE	Common Yellowthroat	2	2			Observed	X							Geothlypis trichas		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	HAWO	Hairy Woodpecker	2	1			Observed	X							Dryobates villosus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	HETH	Hermit Thrush	1		1		Observed	X							Catharus guttatus		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	CAJA	Canada Jay	1		1		Observed	X							Perisoreus canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	PAWA	Palm Warbler	1	1			Observed	X							Setophaga palmarum		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	AMGO	American Goldfinch	1		1		Observed	X							Spinus tristis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	MAWA	Magnolia Warbler	1	1			Observed	X							Setophaga magnolia		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	SWSP	Swamp Sparrow	1	1			Observed	X							Melospiza georgiana		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC11	08:19	10	CMWA	Cape May Warbler	1	1			Observed	X							Setophaga tigrina		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC12	09:09	10	BCCH	Black-capped Chickadee	1	1			Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC12	09:09	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X							Setophaga coronata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC12	09:09	10	BLJA	Blue Jay	1	0	1		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC12	09:09	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC12	09:09	10	PAWA	Palm Warbler	1	1			Observed	X							Setophaga palmarum		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	GEDW	Cedar Waxwing	1	1			Observed	X							Bombycilla cedrorum		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	BCCH	Black-capped Chickadee	1		1		Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	BLJA	Blue Jay	1	1			Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	COYE	Common Yellowthroat	1	1			Observed	X							Geothlypis trichas		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	AMRO	American Robin	2	1	1		Observed	X							Turdus migratorius		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	HETH	Hermit Thrush	1	1			Observed	X							Catharus guttatus		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC19	09:34	10	AMCR	American Crow	1		1		Observed	X							Corvus brachyrhynchos		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	CEDW	Cedar Waxwing	1	1			Observed	X							Bombycilla cedrorum		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	BCCH	Black-capped Chickadee	1	1			Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	AMRO	American Robin	2	1	1		Observed	X							Turdus migratorius		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	AMGO	American Goldfinch	1	1			Observed	X							Spinus tristis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus		7
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	BLJA	Blue Jay	1	0	1		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC20	09:52	10	BAWW	Black-and-white Warbler	1	1			Observed	X							Mniotilta varia		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC6	10:47	10	BCCH	Black-capped Chickadee	1	1			Observed	X							Poecile atricapilla		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC6	10:47	10	BLJA	Blue Jay	2		1		Observed	X							Cyanocitta cristata		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC6	10:47	10	CAJA	Canada Jay	1	1			Observed	X							Perisoreus canadensis		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC6	10:47	10	AMCR	American Crow	1		1		Observed	X							Corvus brachyrhynchos		6
Carrie Jardine	Samantha Stegen	23-Aug-24	Fall Migration	PC6	10:47	10	PAWA	Palm Warbler	1	1			Observed	X		</							



Table 30: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	AMCR	American Crow	2				Observed	X							Corvus brachyrhynchos	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	COLO	Common Loon	1				Observed	X							Gavia immer	3	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	NOFL	Northern Flicker	2	1	1		Observed	X							Colaptes auratus	7	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	COYE	Common Yellowthroat	1				Observed	X							Geothlypis trichas	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	WTSF	White-throated Sparrow	1		1		Observed	X							Zonotrichia albicollis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	RECR	Red Crossbill	1				Observed	X							Loxia curvirostra	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	DEJU	Dark-eyed Junco	2	4			Observed	X							Junco hyemalis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	AMRO	American Robin	2	1	1		Observed	X							Turdus migratorius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	PHVI	Philadelphia Vireo	1	1			Observed	X							Vireo philadelphicus	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	AMGO	American Goldfinch	1				Observed	X			1				Spinus tristis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	CAJA	Canada Jay	1		1		Observed	X							Perisoreus canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	HETH	Hermit Thrush	1		1		Observed	X							Catharus guttatus	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC20	07:41	10	SOSP	Song Sparrow	2	2			Observed	X							Melospiza melodia	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	CAJA	Canada Jay	5		4		Observed	X		1					Perisoreus canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	GCKI	Golden-crowned Kinglet	3	1	1		Observed	X							Regulus satrapa	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	BCCH	Black-capped Chickadee	2	1	1		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	BHVI	Blue-headed Vireo	2	2			Observed	X							Vireo solitarius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	CEW	Cedar Waxwing	2	1	1		Observed	X							Bombus cedrorum	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	BLJA	Blue Jay	2	1	2		Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	BRCR	Brown Creeper	1	1	0		Observed	X							Certhia americana	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	NOCA	Northern Cardinal	2		1		Observed	X							Cardinalis cardinalis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	AMRO	American Robin	1		1		Observed	X							Turdus migratorius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	AMGO	American Goldfinch	1				Observed	X			1				Spinus tristis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	AMCR	American Crow	1				Observed	X							Corvus brachyrhynchos	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	COLO	Common Loon	3				Observed	X							Gavia immer	3	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus	7	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC18	08:25	10	RBNV	Red-breasted Nuthatch	1		1		Observed	X							Sitta canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	HAWO	Hairy Woodpecker	1	1			Observed	X							Dryobates villosus	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	RTHA	Red-tailed Hawk	1				Observed	X							Buteo jamaicensis	4	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	WTSF	White-throated Sparrow	2	1	1		Observed	X							Zonotrichia albicollis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	DEJU	Dark-eyed Junco	1	1			Observed	X							Junco hyemalis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	BCCH	Black-capped Chickadee	3	2	1		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	BHVI	Blue-headed Vireo	1		1		Observed	X							Vireo solitarius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	CORA	Common Raven	1				Observed	X							Corvus corax	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	AMRO	American Robin	1		0		Observed	X							Turdus migratorius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus	7	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	COYE	Common Yellowthroat	2	1	1		Observed	X							Geothlypis trichas	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	CAJA	Canada Jay	2	2	0		Observed	X							Perisoreus canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	AMCR	American Crow	1				Observed	X							Corvus brachyrhynchos	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	CEW	Cedar Waxwing	1	0	0		Observed	X			1				Bombus cedrorum	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	YWAR	Yellow Warbler	1		1		Observed	X							Setophaga atrata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	BHVI	Blue-headed Vireo	1		1		Observed	X							Vireo solitarius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC11	09:42	10	SWSP	Swamp Sparrow	0				Observed	X							Melospiza georgiana	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	BCCH	Black-capped Chickadee	2	0	2		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	NOFL	Northern Flicker	1				Observed	X							Colaptes auratus	7	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	DEJU	Dark-eyed Junco	2	2			Observed	X							Junco hyemalis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	HAWO	Hairy Woodpecker	2	1			Observed	X							Dryobates villosus	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	AMRO	American Robin	2	1	2		Observed	X							Turdus migratorius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	BLJA	Blue Jay	1	1			Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	BHVI	Blue-headed Vireo	1		1		Observed	X							Vireo solitarius	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	PAWA	Palm Warbler	1	1	1		Observed	X							Setophaga palmarum	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	YWAR	Yellow Warbler	1	1	1		Observed	X							Setophaga atrata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	HETH	Hermit Thrush	1	0	1		Observed	X							Catharus guttatus	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC15	10:03	10	WTSF	White-throated Sparrow	1	1			Observed	X							Zonotrichia albicollis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	COYE	Common Yellowthroat	3	2	1		Observed	X							Geothlypis trichas	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	CEW	Cedar Waxwing	1	1	1		Observed	X							Bombus cedrorum	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	BLJA	Blue Jay	1	1			Observed	X							Cyanocitta cristata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	SWSP	Swamp Sparrow	1	1			Observed	X							Melospiza georgiana	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	GCKI	Golden-crowned Kinglet	1	1			Observed	X							Regulus satrapa	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	RBNV	Red-breasted Nuthatch	1		1		Observed	X							Sitta canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	AMGO	American Goldfinch	1	1			Observed	X							Spinus tristis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	SOSP	Song Sparrow	1	1			Observed	X							Melospiza melodia	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	BCCH	Black-capped Chickadee	0	2	1		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC14	10:26	10	BLPW	Blackpoll Warbler	1		1		Observed	X							Setophaga atrata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	AMCR	American Crow	1	0			Observed	X			0				Corvus brachyrhynchos	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	AMGO	American Goldfinch	1		1		Observed	X							Spinus tristis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	COYE	Common Yellowthroat	2	1	1		Observed	X							Geothlypis trichas	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	BLJA	Blue Jay	4	1	2		Observed	X			0				Cyanocitta cristata	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	BCCH	Black-capped Chickadee	2	1	1		Observed	X							Poecile atricapilla	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	DEJU	Dark-eyed Junco	1	1	1		Observed	X							Junco hyemalis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	CORA	Common Raven	2				Observed	X			2				Corvus corax	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	CAJA	Canada Jay	1		1		Observed	X							Perisoreus canadensis	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	CEW	Cedar Waxwing	1		1		Observed	X							Bombus cedrorum	6	
Carrie Jardine	Maggie Trask	10-Sep-24	Fall Migration	PC13	11:11	10	NOFL	Northern Flicker	1		1		Observed	X							Colaptes auratus	7	
Carrie Jardine	Ben Macneil	11-Sep-24	Fall Migration	PC1	06:45	10	GCKI	Golden-crowned Kinglet	2	1	1		Observed	X							Regulus satrapa	6	
Carrie Jardine	Ben Macneil	11-Sep-24	Fall Migration	PC1	06:																		

Table 30: Species Summary - 2024 Fall Migration Point Count Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
										<50 m	50 - 100 m	100 m +												
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	BHVI	Blue-headed Vireo	2				Observed	X			1				Vireo solitarius	6		
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	BLJA	Blue Jay	1				Observed	X								Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	COYE	Common Yellowthroat	1		1		Observed	X								Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	WVWR	Winter Wren	1			1	Observed	X								Troglodytes hiemalis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	PUPF	Purple Finch	1	1			Observed	X								Haemorrhous purpureus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	BLPW	Blackpoll Warbler	1	1			Observed	X								Setophaga striata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC5	08:20	10	BTMW	Black-throated Green Warbler	1	1			Observed	X								Setophaga striata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	AMGO	American Goldfinch	1	1			Observed	X								Spinus tristis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	COYE	Common Yellowthroat	1	1			Observed	X								Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	AMCR	American Crow	1				Observed	X								Corvus brachyrhynchos	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	RBNJ	Red-breasted Nuthatch	1	1			Observed	X								Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	BCCH	Black-capped Chickadee	3	2	1		Observed	X								Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	HAWO	Hairy Woodpecker	1	1			Observed	X								Dryobates villosus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	DEJU	Dark-eyed Junco	1	1			Observed	X								Junco hyemalis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	BHVI	Blue-headed Vireo	1		1		Observed	X								Vireo solitarius	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	AMGO	American Goldfinch	1				Observed	X								Spinus tristis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	BLJA	Blue Jay	1	0	1		Observed	X								Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	PUPF	Purple Finch	1	1			Observed	X								Haemorrhous purpureus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	PAWA	Palm Warbler	1	1			Observed	X								Setophaga palmarum	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	GCKI	Golden-crowned Kinglet	1	1			Observed	X								Regulus satrapa	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC6	09:03	10	SWSP	Swamp Sparrow	1	1			Observed	X								Melospiza georgiana	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	COYE	Common Yellowthroat	3	3			Observed	X								Geothlypis trichas	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	WVWR	Winter Wren	3	2	1		Observed	X								Zonotrichia albicollis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	GCKI	Golden-crowned Kinglet	1	1			Observed	X								Regulus satrapa	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	SWSP	Swamp Sparrow	1	1			Observed	X								Melospiza georgiana	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	DOWO	Downy Woodpecker	2	2			Observed	X								Dryobates pubescens	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	YRWA	Yellow-rumped Warbler	1	1			Observed	X								Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	PAWA	Palm Warbler	1	1			Observed	X								Setophaga palmarum	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	AMRO	American Robin	1	1			Observed	X								Turdus migratorius	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC7	09:29	10	WVWR	Winter Wren	1	1			Observed	X								Troglodytes hiemalis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	BRCR	Brown Creeper	1	1			Observed	X								Certhia americana	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	BCCH	Black-capped Chickadee	2	2			Observed	X								Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	WVWR	White-throated Sparrow	1		1		Observed	X								Zonotrichia albicollis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	NOFL	Northern Flicker	1				Observed	X								Colaptes auratus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	YRWA	Yellow-rumped Warbler	1	1	0		Observed	X								Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	PAWA	Palm Warbler	3	3			Observed	X								Setophaga palmarum	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	BCCH	Black-capped Chickadee	1		1		Observed	X								Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	CAJA	Canada Jay	2		2		Observed	X								Perisoreus canadensis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	AMRO	American Robin	1	1			Observed	X								Turdus migratorius	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	BLPW	Blackpoll Warbler	1	1			Observed	X								Setophaga striata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC8	09:52	10	SWSP	Swamp Sparrow	1	1			Observed	X								Melospiza georgiana	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	PAWA	Palm Warbler	3	2	1		Observed	X								Setophaga palmarum	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	HAWO	Hairy Woodpecker	2	2			Observed	X								Dryobates villosus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	RTHA	Red-tailed Hawk	1		1		Observed	X								Buteo jamaicensis	4	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	BLJA	Blue Jay	3		1	2	Observed	X								Cyanocitta cristata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	AMCR	American Crow	1		1		Observed	X								Corvus corax	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	AMCR	American Crow	2		1		Observed	X								Corvus brachyrhynchos	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	CAJA	Canada Jay	1		1		Observed	X								Perisoreus canadensis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	BCCH	Black-capped Chickadee	2	1	1		Observed	X								Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC9	10:46	10	NOFL	Northern Flicker	2		1		Observed	X								Colaptes auratus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	BCCH	Black-capped Chickadee	1		1		Observed	X								Poecile atricapilla	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	HAWO	Hairy Woodpecker	1		1		Observed	X								Dryobates villosus	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	RBNJ	Red-breasted Nuthatch	1		1		Observed	X								Sitta canadensis	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	CORA	Common Raven	1			1	Observed	X								Corvus corax	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	OSFL	Olive-sided Flycatcher	1		1		Observed	X								Contopus cooperi	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	GCKI	Golden-crowned Kinglet	1		1		Observed	X								Regulus satrapa	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	YRWA	Yellow-rumped Warbler	1		1		Observed	X								Setophaga coronata	6	
Carrie Jardine	Samantha Stegen	11-Sep-24	Fall Migration	PC10	11:04	10	PAWA	Palm Warbler	1		1		Observed	X								Setophaga palmarum	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	BCCH	Black-capped Chickadee	4	2	2		Observed	X								Poecile atricapilla	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	GCKI	Golden-crowned Kinglet	4	4			Observed	X								Regulus satrapa	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	DEJU	Dark-eyed Junco	4	2	2		Observed	X								Junco hyemalis	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	RUGR	Ruffed Grouse	2			1	Observed	X								Bonasa umbellus	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	BLJA	Blue Jay	1		1		Observed	X								Cyanocitta cristata	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	AMRO	American Robin	2		1		Observed	X								Turdus migratorius	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	HAWO	Hairy Woodpecker	1		1		Observed	X								Dryobates villosus	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	BLJA	Blue Jay	2		1	1	Observed	X								Cyanocitta cristata	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	CAJA	Canada Jay	2		1	1	Observed	X								Perisoreus canadensis	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC1	07:14	10	MIDD	Mourning Dove	1				Observed	X								Zenaidura macroura	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	BCCH	Black-capped Chickadee	7	5	2		Observed	X								Poecile atricapilla	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	GCKI	Golden-crowned Kinglet	5	2			Observed	X								Regulus satrapa	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	BOCH	Boreal Chickadee	1		1		Observed	X								Poecile hudsonica	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	BLJA	Blue Jay	3			3	Observed	X								Cyanocitta cristata	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	SWTH	Swainson's Thrush	1				Observed	X								Cathartes ustulatus	6	
Jessica Lohnes	Ben MacNeill	16-Oct-24	Fall Migration	PC2	07:26	10	YRWA	Yellow-rumped Warbler	1		1		Observed	X								Haemorrhous pur		



Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments
										<50 m	50 - 100 m	100 m +											
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	NOFL	Northern Flicker	1												Colaptes auratus	7	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	BCCH	Black-capped Chickadee	4	2											Poecile atricapilla	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	AMGO	American Goldfinch	2												Spinus tristis	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	RBNU	Red-breasted Nuthatch	1												Sitta canadensis	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	AMCR	American Crow	2												Corvus brachyrhynchos	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	HETH	Hermit Thrush	1												Catharus guttatus	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	BLJA	Blue Jay	1												Cyanocitta cristata	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC14	10:23	10	GCKI	Golden-crowned Kinglet	1	1											Regulus satrapa	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC15	10:50	10	BLJA	Blue Jay	3												Cyanocitta cristata	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC15	10:50	10	HETH	Hermit Thrush	1												Catharus guttatus	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC15	10:50	10	SWSP	Swamp Sparrow	1	1											Melospiza georgiana	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC15	10:50	10	CORA	Common Raven	1												Corvus corax	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC15	10:50	10	AMRO	American Robin	1	1											Turdus migratorius	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	GCKI	Golden-crowned Kinglet	2												Regulus satrapa	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	BCCH	Black-capped Chickadee	3												Poecile atricapilla	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	BLJA	Blue Jay	1												Cyanocitta cristata	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	CORA	Common Raven	1												Corvus corax	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	HETH	Hermit Thrush	1	1											Catharus guttatus	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	AMGO	American Goldfinch	2												Spinus tristis	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	RBNU	Red-breasted Nuthatch	1												Sitta canadensis	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	AMRO	American Robin	1												Turdus migratorius	6	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	NOFL	Northern Flicker	1												Colaptes auratus	7	
Jessica Lohnes	Ben Macneill	17-Oct-24	Fall Migration	PC16	11:35	10	AMCR	American Crow	2												Corvus brachyrhynchos	6	

Table 31: Species Summary - 2024 Fall Diurnal Raptor Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
Alder Flycatcher	<i>Empidonax alnorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	6
American Goldfinch	<i>Spinus tristis</i>	6	Not Listed	Not Listed	Not Listed	S5	9
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	2
Bald Eagle	<i>Haliaeetus leucocephalus</i>	4	Not Listed	Not at Risk	Not Listed	S5	1
Bay-breasted Warbler	<i>Setophaga castanea</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	1
Belted Kingfisher	<i>Megaceryle alcyon</i>	3	Not Listed	Not Listed	Not Listed	S4S5B	1
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	20
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	12
Broad-winged Hawk	<i>Buteo platypterus</i>	4	Not Listed	Not Listed	Not Listed	S5B	1
Canada Jay	<i>Perisoreus canadensis</i>	6	Not Listed	Not Listed	Not Listed	S3	6
Cedar Waxwing	<i>Bombycilla cedrorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Common Loon	<i>Gavia immer</i>	3	Not Listed	Not at Risk	Not Listed	S4B	1
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	12
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	3
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	15
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	5
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	3
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Mourning Dove	<i>Zenaida macroura</i>	7	Not Listed	Not Listed	Not Listed	S5	1
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	7
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	5
Red Crossbill	<i>Loxia curvirostra</i>	6	Not Listed	Not Listed	Not Listed	S3S4	2
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	5
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	1
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	4
Spotted Sandpiper	<i>Actitis macularius</i>	2	Not Listed	Not Listed	Not Listed	S3S4B,S5M	1
Turkey Vulture	<i>Cathartes aura</i>	4	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	5
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	4



Table 32: Species Data - 2024 Fall Diurnal Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Seen	Heard	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments	Scientific Name	Group	General Comments	
												<50 m	50 - 100 m	100 m +												
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	BCCH	Black-capped Chickadee	1			1			Observed	X							<i>Poecile atricapilla</i>	6		
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	DEJU	Dark-eyed Junco	1			1			Observed	X								<i>Junco hyemalis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	RTHU	Ruby-throated Hummingbird	1			1			Observed	X								<i>Archilochus colubris</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	AMGO	American Goldfinch	1			1			Observed	X								<i>Spinus tristis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	COYE	Common Yellowthroat	2			2			Probable	A								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	AMCR	American Crow	1			1			Observed	X								<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	CEWJ	Cedar Waxwing	1			1			Observed	X								<i>Bombicilla cedrorum</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	COLO	Common Loon	1			1			Observed	X								<i>Gavia immer</i>	3	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	SOSP	Song Sparrow	2			2			Observed	X								<i>Melospiza melodia</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	ALFL	Alder Flycatcher	1			1			Observed	X								<i>Empidonax alinoch</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-22	Diurnal Raptor	Area Search Area 2	13:05	30	HETH	Hermit Thrush	1			1			Observed	X								<i>Catharus guttatus</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	NOFL	Northern Flicker	2			1	1		Observed	X								<i>Colaptes auratus</i>	7	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	BLJA	Blue Jay	3			1	2		Observed	X								<i>Cyanocitta cristata</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	CORA	Common Raven	2			2			Observed	X								<i>Corvus corax</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	DEJU	Dark-eyed Junco	3			2	1		Observed	X								<i>Junco hyemalis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	BWHA	Broad-winged Hawk	1			1			Observed	X								<i>Buteo platypterus</i>	4	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	WTSP	White-throated Sparrow	1			1			Observed	X								<i>Zonotrichia albicollis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	AMGO	American Goldfinch	1			1			Observed	X								<i>Spinus tristis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	BCCH	Black-capped Chickadee	1			1			Observed	X								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	CEWJ	Cedar Waxwing	2			2			Observed	X								<i>Bombicilla cedrorum</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	PAWA	Palm Warbler	2			2			Probable	P D								<i>Setophaga palmarum</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	YRWA	Yellow-rumped Warbler	2			2			Observed	X								<i>Setophaga coronata</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	HAWO	Hairy Woodpecker	1			1			Observed	X								<i>Dryobates villosus</i>	7	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	CAJA	Canada Jay	1			1			Observed	X								<i>Perisoreus canadensis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	BBWA	Bay-breasted Warbler	1			1			Observed	X								<i>Setophaga castanea</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	RBNJ	Red-breasted Nuthatch	2			1	0		Observed	X								<i>Sitta canadensis</i>	6	
Carrie Jardine	Samantha Stegen	2024-08-23	Diurnal Raptor	Diurnal watch 1	11:59	90	COYE	Common Yellowthroat	1			1			Observed	X								<i>Geothlypis trichas</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	AMCR	American Crow	1			1	0		Observed	X								<i>Corvus brachyrhynchos</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	DEJU	Dark-eyed Junco	5			5			Observed	X								<i>Junco hyemalis</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	BCCH	Black-capped Chickadee	6			4	2		Observed	X								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	CORA	Common Raven	6			2	2		Observed	X								<i>Corvus corax</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	SOSP	Song Sparrow	2			1	1		Observed	X								<i>Melospiza melodia</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	HAWO	Hairy Woodpecker	1			1			Observed	X								<i>Dryobates villosus</i>	7	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	GCKI	Golden-crowned Kinglet	1			0	1		Observed	X								<i>Regulus satrapa</i>	6	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	BEKI	Belted Kingfisher	1			1			Observed	X								<i>Megasceryle alcyon</i>	3	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	NOFL	Northern Flicker	1			1			Observed	X								<i>Colaptes auratus</i>	7	
Carrie Jardine	Maggie Trask	2024-08-10	Diurnal Raptor	Area 6	12:59	30	AMRO	American Robin	1			1			Observed	X								<i>Turdus migratorius</i>	6	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	CORA	Common Raven	1			1			Observed	X								<i>Corvus corax</i>	6	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	BCCH	Black-capped Chickadee	1			1			Observed	X								<i>Poecile atricapilla</i>	6	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	DEJU	Dark-eyed Junco	1			1			Observed	X								<i>Junco hyemalis</i>	6	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	RBNJ	Red-breasted Nuthatch	1			1			Observed	X								<i>Sitta canadensis</i>	6	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	NOFL	Northern Flicker	1			1			Observed	X								<i>Colaptes auratus</i>	7	
Carrie Jardine	Ben MacNeill	2024-08-12	Diurnal Raptor	Diurnal watch 2	12:01	90	BTNW	Black-throated Green Warbler	1			1			Observed	X								<i>Setophaga virens</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	PAWA	Palm Warbler	3			3												<i>Setophaga palmarum</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	WTSP	White-throated Sparrow	2			1	1											<i>Zonotrichia albicollis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	AMCR	American Crow	3			3												<i>Corvus brachyrhynchos</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	BLJA	Blue Jay	5			1	3											<i>Cyanocitta cristata</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	CORA	Common Raven	2			2												<i>Corvus corax</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	BCCH	Black-capped Chickadee	5			3	2											<i>Poecile atricapilla</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	DEJU	Dark-eyed Junco	3			3												<i>Junco hyemalis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	CAJA	Canada Jay	4			2	2											<i>Perisoreus canadensis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	GCKI	Golden-crowned Kinglet	4			2	2											<i>Regulus satrapa</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	BAEA	Bald Eagle	1			1												<i>Haliaeetus leucocephalus</i>	4	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	SPSA	Spotted Sandpiper	1			1												<i>Actitis macularia</i>	2	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	AMGO	American Goldfinch	3			1	2											<i>Spinus tristis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	NOFL	Northern Flicker	1			1												<i>Colaptes auratus</i>	7	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	RBNJ	Red-breasted Nuthatch	2			1	1											<i>Sitta canadensis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	RECR	Red Crossbill	2			2												<i>Loxia curvirostra</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-16	Diurnal Raptor	Diurnal Watch 1	11:02	90	AMRO	American Robin	1			1												<i>Turdus migratorius</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	BCCH	Black-capped Chickadee	6			4	2											<i>Poecile atricapilla</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	RTHA	Red-tailed Hawk	1			1												<i>Buteo jamaicensis</i>	4	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	BLJA	Blue Jay	4			2	2											<i>Cyanocitta cristata</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	CORA	Common Raven	3			3												<i>Corvus corax</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	AMCR	American Crow	1			1												<i>Corvus brachyrhynchos</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	DEJU	Dark-eyed Junco	2			2												<i>Junco hyemalis</i>	6	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor	Diurnal Watch 4	12:30	90	NOFL	Northern Flicker	2			1	1											<i>Colaptes auratus</i>	7	
Jessica Lohnes	Ben MacNeill	2024-Oct-17	Diurnal Raptor																							



Table 33: Species Summary - 2024 Incidental Bird Surveys - Melvin Lake Wind Farm Project

Project # 24-9856

Common name	Scientific Name	Bird Group	SARA	COSEWIC	ESA	NS S-rank	Number Observed
American Crow	<i>Corvus brachyrhynchos</i>	6	Not Listed	Not Listed	Not Listed	S5	5
American Goldfinch	<i>Spinus tristis</i>	6	Not Listed	Not Listed	Not Listed	S5	1
American Kestrel	<i>Falco sparverius</i>	4	Not Listed	Not Listed	Not Listed	S3B,S4S5M	8
American Redstart	<i>Setophaga ruticilla</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
American Robin	<i>Turdus migratorius</i>	6	Not Listed	Not Listed	Not Listed	S5B,S3N	6
American Woodcock	<i>Scolopax minor</i>	2	Not Listed	Not Listed	Not Listed	S5B	1
Bald Eagle	<i>Haliaeetus leucocephalus</i>	4	Not Listed	Not at Risk	Not Listed	S5	2
Black-backed Woodpecker	<i>Picoides arcticus</i>	7	Not Listed	Not Listed	Not Listed	S3S4	1
Bay-breasted Warbler	<i>Setophaga castanea</i>	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	2
Black-and-white Warbler	<i>Mniotilta varia</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Blackburnian Warbler	<i>Setophaga fusca</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	2
Black-capped Chickadee	<i>Poecile atricapilla</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Black-throated Green Warbler	<i>Setophaga virens</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Blue Jay	<i>Cyanocitta cristata</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Blue-headed Vireo	<i>Vireo solitarius</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Boreal Chickadee	<i>Poecile hudsonica</i>	6	Not Listed	Not Listed	Not Listed	S3	1
Canada Jay	<i>Perisoreus canadensis</i>	6	Not Listed	Not Listed	Not Listed	S3	2
Cedar Waxwing	<i>Bombicilla cedrorum</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Chipping Sparrow	<i>Spizella passerina</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Common Grackle	<i>Quiscalus quiscula</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Common Raven	<i>Corvus corax</i>	6	Not Listed	Not Listed	Not Listed	S5	1
Common Nighthawk	<i>Chordeiles minor</i>	6	Special Concern	Special Concern	Threatened	S3B	19
Common Yellowthroat	<i>Geothlypis trichas</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Dark-eyed Junco	<i>Junco hyemalis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	18
Eastern Wood-Pewee	<i>Contopus virens</i>	6	Special Concern	Special Concern	Vulnerable	S3S4B	1
Golden-crowned Kinglet	<i>Regulus satrapa</i>	6	Not Listed	Not Listed	Not Listed	S5	3
Hairy Woodpecker	<i>Dryobates villosus</i>	7	Not Listed	Not Listed	Not Listed	S5	3
Hermit Thrush	<i>Catharus guttatus</i>	6	Not Listed	Not Listed	Not Listed	S5B	5
Magnolia Warbler	<i>Setophaga magnolia</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Northern Flicker	<i>Colaptes auratus</i>	7	Not Listed	Not Listed	Not Listed	S5B	3
Northern Goshawk	<i>Accipiter gentilis</i>	4	Not Listed	Not at Risk	Not Listed	S3S4	5
Northern Parula	<i>Setophaga americana</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Olive-sided Flycatcher	<i>Contopus cooperi</i>	6	Special Concern	Special Concern	Threatened	S3B	36
Osprey	<i>Pandion haliaetus</i>	4	Not Listed	Not Listed	Not Listed	S4S5B,S5M	2
Palm Warbler	<i>Setophaga palmarum</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Pine Grosbeak	<i>Pinicola enucleator</i>	6	Not Listed	Not Listed	Not Listed	S3B,S5N,S5M	1
Red-breasted Nuthatch	<i>Sitta canadensis</i>	6	Not Listed	Not Listed	Not Listed	S4S5	2
Red-eyed Vireo	<i>Vireo olivaceus</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
Red-tailed Hawk	<i>Buteo jamaicensis</i>	4	Not Listed	Not at Risk	Not Listed	S5	2
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	6	Not Listed	Not Listed	Not Listed	S4B	1
Ring-necked Duck	<i>Aythya collaris</i>	1	Not Listed	Not Listed	Not Listed	S5B	1
Ruby-crowned Kinglet	<i>Corthylio calendula</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	2
Song Sparrow	<i>Melospiza melodia</i>	6	Not Listed	Not Listed	Not Listed	S5B	10
Spruce Grouse	<i>Canachites canadensis</i>	7	Not Listed	Not Listed	Not Listed	S4	8
Swamp Sparrow	<i>Melospiza georgiana</i>	6	Not Listed	Not Listed	Not Listed	S5B	1
White-throated Sparrow	<i>Zonotrichia albicollis</i>	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	2
Winter Wren	<i>Troglodytes hiemalis</i>	6	Not Listed	Not Listed	Not Listed	S5B	2
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	6	Not Listed	Not Listed	Not Listed	S4B,S5M	1
Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	Not Listed	Not Listed	Not Listed	S5B	2

Table 34: Species Data - 2024 Incidental Bird Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Survey start Time	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments Block counting (BC)	Scientific Name	Group	General Comments
								<50 m	50 - 100 m	100 m +											
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:27	NOGO	Northern Goshawk	1											<i>Accipiter gentilis</i>	4		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	BBWA	Bay-breasted Warbler	1											<i>Setophaga castanea</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	RBNU	Red-breasted Nuthatch	1											<i>Sitta canadensis</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	BTNW	Black-throated Green Warbler	1											<i>Setophaga virens</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	NOPA	Northern Parula	1											<i>Setophaga americana</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	MAWA	Magnolia Warbler	1											<i>Setophaga magnolia</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	RCKI	Ruby-crowned Kinglet	2											<i>Corthylio calendula</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	SWSP	Swamp Sparrow	1											<i>Melospiza georgiana</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	AMGO	American Goldfinch	1											<i>Spinus tristis</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	GCKI	Golden-crowned Kinglet	1											<i>Regulus satrapa</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	AMRO	American Robin	1											<i>Turdus migratorius</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	DEJU	Dark-eyed Junco	1											<i>Junco hyemalis</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	BLBW	Blackburnian Warbler	2											<i>Setophaga fusca</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	YRWA	Yellow-rumped Warbler	1											<i>Setophaga coronata</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	MAWA	Magnolia Warbler	1											<i>Setophaga magnolia</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	12:09	COYE	Common Yellowthroat	1											<i>Geothlypis trichas</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	BTNW	Black-throated Green Warbler	1											<i>Setophaga virens</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	GCKI	Golden-crowned Kinglet	1											<i>Regulus satrapa</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	YRWA	Yellow-rumped Warbler	1											<i>Setophaga coronata</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	BBWA	Bay-breasted Warbler	1											<i>Setophaga castanea</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	YBFL	Yellow-bellied Flycatcher	1											<i>Empidonax flaviventris</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	BHVI	Blue-headed Vireo	1											<i>Vireo solitarius</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	9:56	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-06-04	Incidental	9:32	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-06-04	Incidental	9:09	OSPR	Osprey	1											<i>Pandion haliaetus</i>	4		
Carrie Jardine	Other	2024-06-04	Incidental	9:09	BAEA	Bald Eagle	1											<i>Haliaeetus leucocephalus</i>	4		
Carrie Jardine	Other	2024-06-04	Incidental	9:09	AMCR	American Crow	1											<i>Corvus brachyrhynchos</i>	6		
Leah Riehl	Dafna Schultz	2024-05-29	Incidental	3:00	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Jordan H. Davis	Other	2024-05-29	Incidental	3:00	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-05-22	Incidental	3:00	SPGR	Spruce Grouse	4											<i>Canachites canadensis</i>	7		
Other	Other	2024-05-22	Incidental	1:22	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	1:04	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Other		2024-05-22	Incidental	11:59	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Other		2024-05-22	Incidental	11:40	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	11:15	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	11:05	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Other	Renee MacQuarrie	2024-05-22	Incidental	10:02	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	10:02	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	9:19	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Renee MacQuarrie	Other	2024-05-22	Incidental	8:56	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Renee MacQuarrie	Other	2024-05-21	Incidental	3:00	AMKE	American Kestrel	2											<i>Falco sparverius</i>	4		
Sasha Chilibeck		2024-05-21	Incidental	1:18	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Sasha Chilibeck		2024-05-21	Incidental	12:52	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Sasha Chilibeck		2024-05-21	Incidental	12:31	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Ben MacNeill	2024-09-11	Incidental	3:00	AMKE	American Kestrel	1											<i>Falco sparverius</i>	4		
Carrie Jardine	Ben MacNeill	2024-09-11	Incidental	3:00	RTHA	Red-tailed Hawk	1											<i>Buteo jamaicensis</i>	4		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	DEJU	Dark-eyed Junco	3											<i>Junco hyemalis</i>	6		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	SOSP	Song Sparrow	5											<i>Melospiza melodia</i>	6		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	DEJU	Dark-eyed Junco	3											<i>Junco hyemalis</i>	6		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	SOSP	Song Sparrow	1											<i>Melospiza melodia</i>	6		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	BCCH	Black-capped Chickadee	1											<i>Poecile atricapilla</i>	6		
Carrie Jardine	Thomas Bruce	2024-03-22	Incidental	3:30	DEJU	Dark-eyed Junco	4											<i>Junco hyemalis</i>	6		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	RWBL	Red-winged Blackbird	1											<i>Agelaius phoeniceus</i>	6		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	AMCR	American Crow	2											<i>Corvus brachyrhynchos</i>	6		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	NOFL	Northern Flicker	1											<i>Colaptes auratus</i>	7		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	DEJU	Dark-eyed Junco	1											<i>Junco hyemalis</i>	6		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	PAWA	Palm Warbler	1											<i>Setophaga palmarum</i>	6		
Carrie Jardine	Ben Macneill	2024-04-18	Incidental	5:30	DEJU	Dark-eyed Junco	1											<i>Junco hyemalis</i>	6		
Carrie Jardine	Ben Macneill	2024-04-19	Incidental	7:47	NOFL	Northern Flicker	1											<i>Colaptes auratus</i>	7		
Carrie Jardine	Ben Macneill	2024-04-19	Incidental	7:47	GCKI	Golden-crowned Kinglet	1											<i>Regulus satrapa</i>	6		
Ben Macneill	Other	2024-05-03	Incidental	4:36	NOGO	Northern Goshawk	1											<i>Accipiter gentilis</i>	4		
Ben Macneill	Other	2024-05-03	Incidental	4:36	DEJU	Dark-eyed Junco	2											<i>Junco hyemalis</i>	6		
Ben Macneill	Other	2024-05-03	Incidental	4:36	AMRO	American Robin	4											<i>Turdus migratorius</i>	6		
Ben Macneill	Other	2024-05-03	Incidental	4:36	WIWR	Winter Wren	1											<i>Troglodytes hiemalis</i>	6		
Ben Macneill	Other	2024-05-03	Incidental	4:36	AMWO	American Woodcock	1											<i>Scolopax minor</i>	2		
Carrie Jardine	Other	2024-05-07	Incidental	4:54	SOSP	Song Sparrow	1											<i>Melospiza melodia</i>	6		
Carrie Jardine	Other	2024-05-07	Incidental	4:54	NOFL	Northern Flicker	1											<i>Colaptes auratus</i>	7		
Carrie Jardine	Other	2024-05-07	Incidental	4:54	COGR	Common Grackle	1											<i>Quiscalus quiscula</i>	6		
Carrie Jardine	Other	2024-05-08	Incidental	5:16	WTSP	White-throated Sparrow	2											<i>Zonotrichia albicollis</i>	6		
Carrie Jardine	Other	2024-05-08	Incidental	5:16	BOCH	Boreal Chickadee	1											<i>Poecile hudsonica</i>	6		
Carrie Jardine	Other	2024-05-08	Incidental	5:16	CAJA	Canada Jay	1											<i>Perisoreus canadensis</i>	6		
Carrie Jardine	Jordan Davis	2024-05-22	Incidental	5:38	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-05-29	Incidental	9:03	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-05-29	Incidental	9:03	EAWP	Eastern Wood-Pewee	1											<i>Contopus virens</i>	6		
Carrie Jardine	Other	2024-05-29	Incidental	9:03	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-05-29	Incidental	9:03	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-05-29	Incidental	9:03	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-04	Incidental	6:26	BAWW	Black-and-white Warbler	1											<i>Mniotilta varia</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-05	Incidental	3:00	SOSP	Song Sparrow	1											<i>Melospiza melodia</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-05	Incidental	3:00	AMRE	American Redstart	1											<i>Setophaga ruticilla</i>	6		
Carrie Jardine	Samantha Stegen	2024-06-05	Incidental	3:00	CORA	Common Raven	1											<i>Corvus Corax</i>	6		
Carrie Jardine	Other	2024-06-18	Incidental	7:26	BLJA	Blue Jay	1											<i>Cyanocitta cristata</i>	6		
Carrie Jardine	Other	2024-06-18	Incidental	7:26	NOPA	Northern Parula	1											<i>Setophaga americana</i>	6		
Carrie Jardine	Other	2024-06-18	Incidental	7:26	REVI	Red-eyed Vireo	1											<i>Vireo olivaceus</i>	6		
Carrie Jardine	Other	2024-06-18	Incidental	7:26	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		

Table 34: Species Data - 2024 Incidental Bird Surveys - Melvin Lake Wind Farm Project

Lead Observer	Second Observer	Date	Survey Type	Survey start Time	Species code	Common name	#	Distance			Breeding Potential	Breeding Evidence	Bearing	Inc.	Fly-by	Pass. Height	Pass. Direction	Behaviour/Comments Block counting (BC)	Scientific Name	Group	General Comments
								<50 m	50 - 100 m	100 m +											
Carrie Jardine	Other	2024-06-19	Incidental	4:04	OSPR	Osprey	1											<i>Pandion haliaetus</i>	4		
Carrie Jardine	Other	2024-06-19	Incidental	4:04	BAEA	Bald Eagle	1											<i>Haliaeetus leucocephalus</i>	4		
Carrie Jardine	Other	2024-06-19	Incidental	4:04	AMCR	American Crow	1											<i>Corvus brachyrhynchos</i>	6		
Carrie Jardine	Other	2024-06-25	Incidental	10:58	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	WIWR	Winter Wren	1											<i>Troglodytes hiemalis</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	AMCR	American Crow	1											<i>Corvus brachyrhynchos</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	BTNW	Black-throated Green Warbler	1											<i>Setophaga virens</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	HETH	Hermit Thrush	3											<i>Catharus guttatus</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	NOGO	Northern Goshawk	1											<i>Accipiter gentilis</i>	4		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	AMRO	American Robin	1											<i>Turdus migratorius</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	CHSP	Chipping Sparrow	1											<i>Spizella passerina</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	HETH	Hermit Thrush	2											<i>Catharus guttatus</i>	6		
Carrie Jardine	Other	2024-06-27	Incidental	1:57	DEJU	Dark-eyed Junco	2											<i>Junco hyemalis</i>	6		
Carrie Jardine	Other	2024-07-02	Incidental	11:18	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Jordan Davis	Other	2024-07-11	Incidental	8:03	HAWO	Hairy Woodpecker	3											<i>Dryobates villosus</i>	7		
Jordan Davis	Other	2024-07-11	Incidental	8:03	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Jordan Davis	Other	2024-07-11	Incidental	8:03	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Jordan Davis	Other	2024-07-11	Incidental	8:03	SPGR	Spruce Grouse	4											<i>Canachites canadensis</i>	7		
Carrie Jardine	Other	2024-07-17	Incidental	6:42	SOSP	Song Sparrow	1											<i>Melospiza melodia</i>	6		
Carrie Jardine	Other	2024-07-17	Incidental	6:42	CEDW	Cedar Waxwing	1											<i>Bombycilla cedrorum</i>	6		
Carrie Jardine	Other	2024-07-24	Incidental	10:07	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-07-30	Incidental	1:09	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-07-30	Incidental	1:09	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-07-30	Incidental	1:09	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-07-30	Incidental	1:09	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-07-30	Incidental	1:09	CONI	Common Nighthawk	2											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-07-31	Incidental	11:50	OSFL	Olive-sided Flycatcher	2											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-08-01	Incidental	12:57	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-08-01	Incidental	12:57	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-08-01	Incidental	12:57	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-08-02	Incidental	6:54	AMKE	American Kestrel	2											<i>Falco sparverius</i>	4		
Carrie Jardine	Other	2024-08-06	Incidental	9:34	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-08-09	Incidental	7:51	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Carrie Jardine	Other	2024-08-09	Incidental	7:51	OSFL	Olive-sided Flycatcher	1											<i>Contopus cooperi</i>	6		
Carrie Jardine	Other	2024-08-22	Incidental	6:32	NOGO	Northern Goshawk	1											<i>Accipiter gentilis</i>	4		
Carrie Jardine	Other	2024-08-22	Incidental	6:32	AMKE	American Kestrel	1											<i>Falco sparverius</i>	4		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	PIGR	Pine Grosbeak	1											<i>Pinicola enucleator</i>	6		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	RBNU	Red-breasted Nuthatch	1											<i>Sitta canadensis</i>	6		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	NOGO	Northern Goshawk	1											<i>Accipiter gentilis</i>	4		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	DEJU	Dark-eyed Junco	1											<i>Junco hyemalis</i>	6		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	COYE	Common Yellowthroat	1											<i>Geothlypis trichas</i>	6		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	AMKE	American Kestrel	1											<i>Falco sparverius</i>	4		
Carrie Jardine	Maggie Trask	2024-09-10	Incidental	7:36	SOSP	Song Sparrow	1											<i>Melospiza melodia</i>	6		
Carrie Jardine	Samantha Stegen	2024-09-11	Incidental	5:41	CONI	Common Nighthawk	1											<i>Chordeiles minor</i>	6		
Carrie Jardine	Samantha Stegen	2024-09-11	Incidental	5:41	AMKE	American Kestrel	1											<i>Falco sparverius</i>	4		
Carrie Jardine	Samantha Stegen	2024-09-11	Incidental	5:41	RTHA	Red-tailed Hawk	1											<i>Buteo jamaicensis</i>	4		
Jessica Lohnes	Ben Macneill	2024-10-16	Incidental	9:17	RNDU	Ring-necked Duck	1											<i>Aythya collaris</i>	1		
Jessica Lohnes	Ben Macneill	2024-10-18	Incidental	2:24	PAWA	Palm Warbler	1											<i>Setophaga palmarum</i>	6		
Jessica Lohnes	Ben Macneill	2024-10-18	Incidental	2:24	CAJA	Canada Jay	1											<i>Perisoreus canadensis</i>	6		
Jessica Lohnes	Ben Macneill	2024-10-18	Incidental	2:24	BBWO	Black-backed Woodpecker	1											<i>Picoides arcticus</i>	7		

Table 35: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project

Project # 24-9856

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
01-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
02-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
03-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
04-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
05-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
06-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
07-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
08-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
09-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
10-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
11-Aug-22	0	0	0	0	0	0	0	0	0	1	0	1
12-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
13-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
14-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
15-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
16-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
17-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
18-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
19-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
20-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
21-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
22-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
23-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
24-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
25-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
26-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
27-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
28-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
29-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
30-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
31-Aug-22	0	0	0	0	0	0	0	0	0	0	0	0
01-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
02-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
03-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
04-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
05-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
06-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
07-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
08-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
09-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
11-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep-22	1	0	0	0	0	0	0	0	0	0	0	1
13-Sep-22	0	0	1	0	0	0	0	0	0	0	0	1

Table 35: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project

Project # 24-9856

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
14-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
15-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
16-Sep-22	0	331	0	0	0	0	0	0	0	0	0	331
17-Sep-22	0	711	0	0	0	0	0	0	0	0	0	711
18-Sep-22	0	739	0	0	0	0	0	0	0	1	0	740
19-Sep-22	0	876	0	0	0	0	0	0	0	0	0	876
20-Sep-22	0	311	0	0	0	2	37	223	678	182	0	1433
21-Sep-22	0	0	0	0	0	0	0	3	1	0	0	4
22-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep-22	0	0	0	0	0	0	0	102	206	42	0	350
24-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
25-Sep-22	0	0	0	0	0	0	2	37	102	41	0	182
26-Sep-22	0	0	0	0	4	7	24	283	411	89	0	818
27-Sep-22	0	0	1	0	0	0	0	1	1	0	0	3
28-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep-22	0	0	0	0	0	0	0	0	0	0	0	0
30-Sep-22	0	0	1	0	0	0	0	0	0	0	0	1
01-Oct-22	0	0	4	0	0	0	0	0	0	0	0	4
02-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
03-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
04-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
05-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
06-Oct-22	0	0	0	0	15	32	293	961	699	159	0	2159
07-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
08-Oct-22	0	0	0	0	0	0	0	36	88	35	0	159
09-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
10-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
11-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
12-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
13-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
14-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
15-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
16-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
17-Oct-22	0	0	0	2	2	16	109	401	229	49	0	808
18-Oct-22	0	0	0	0	0	0	0	3	1	1	0	5
19-Oct-22	0	0	1	0	1	13	106	260	98	24	0	503
20-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
21-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
24-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
25-Oct-22	0	0	0	0	0	0	0	0	0	0	0	0
<b>Bin Total</b>	<b>1</b>	<b>2968</b>	<b>8</b>	<b>2</b>	<b>22</b>	<b>70</b>	<b>571</b>	<b>2310</b>	<b>2514</b>	<b>624</b>	<b>0</b>	<b>9090</b>

Table 36: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project

Project # 24-9856

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
01 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
10 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
11 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
12 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
13 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
14 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
18 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
19 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
20 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
21 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
22 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
23 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
25 Mar 2023	0	0	0	0	0	0	6	3	0	0	0	9
26 Mar 2023	0	0	0	0	0	0	0	2	0	0	0	2
27 Mar 2023	0	0	0	0	0	0	0	3	0	0	0	3
28 Mar 2023	0	0	0	0	0	0	2	1	0	0	0	3
29 Mar 2023	0	0	0	0	0	0	0	4	0	0	0	4
30 Mar 2023	0	0	2	9	9	2	39	2	0	0	0	63
31 Mar 2023	0	0	0	0	0	0	0	0	0	0	0	0
01 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0



Table 36: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project

Project # 24-9856

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
10 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
11 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
12 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
13 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
14 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
18 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
19 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
20 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
21 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
22 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
23 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 Apr 2023	0	0	0	0	0	0	0	0	0	0	0	0
25 Apr 2023	0	0	0	2	3	0	7	14	0	0	0	26
26 Apr 2023	0	0	0	0	8	0	11	22	0	0	0	41
27 Apr 2023	0	0	0	3	0	0	58	283	14	2	0	360
28 Apr 2023	0	0	0	0	3	0	37	61	0	0	0	101
29 Apr 2023	0	0	0	0	4	0	12	185	0	0	0	201
30 Apr 2023	0	0	0	0	1	0	0	10	0	0	0	11
01 May 2023	0	0	0	0	1	0	0	6	0	0	0	7
02 May 2023	0	0	0	8	5	0	2	87	0	0	0	102
03 May 2023	0	0	0	0	1	0	3	223	0	0	0	227
04 May 2023	0	0	0	0	13	0	1	62	0	0	0	76
05 May 2023	0	0	0	0	16	0	2	33	0	0	0	51
06 May 2023	0	0	0	0	1	0	82	100	0	0	0	183
07 May 2023	0	0	0	8	2	0	14	86	0	0	0	110
08 May 2023	0	0	0	14	9	0	1	28	13	16	0	81
09 May 2023	0	0	0	0	18	0	0	60	0	0	0	78
10 May 2023	0	0	0	0	14	0	0	52	0	0	0	66
11 May 2023	0	0	0	0	11	0	0	133	0	0	0	144
12 May 2023	0	0	0	3	0	0	0	7	0	0	0	10
13 May 2023	0	0	0	3	5	7	13	50	72	16	0	166
14 May 2023	0	0	0	0	0	0	0	4	0	0	0	4
15 May 2023	0	0	0	14	0	0	0	90	0	0	0	104
16 May 2023	0	0	0	0	0	0	0	12	0	0	0	12
17 May 2023	0	0	1	5	3	1	143	663	474	25	0	1315
18 May 2023	0	0	0	5	0	0	0	40	0	0	0	45
19 May 2023	0	0	0	2	0	0	0	9	0	0	0	11

Table 36: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project

Project # 24-9856

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
20 May 2023	0	0	0	0	0	0	0	1	0	0	0	1
21 May 2023	0	0	1	1	0	0	61	160	84	20	0	327
22 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
23 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
25 May 2023	0	0	0	0	0	0	0	2	0	0	0	2
26 May 2023	0	0	0	0	0	0	0	1	0	0	0	1
27 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
28 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
29 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
30 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
31 May 2023	0	0	0	0	0	0	0	0	0	0	0	0
<b>Bin Total</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>77</b>	<b>127</b>	<b>10</b>	<b>494</b>	<b>2499</b>	<b>657</b>	<b>79</b>	<b>0</b>	<b>3947</b>

**Table 37: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
01 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
10 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
11 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
12 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
13 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
14 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Jun 2023	0	0	0	1	1	2	16	12	13	3	0	48
16 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Jun 2023	0	0	0	0	3	0	0	0	0	0	0	3
18 Jun 2023	0	0	1	4	3	5	81	235	120	19	0	468
19 Jun 2023	0	0	0	0	2	0	0	0	0	0	0	2
20 Jun 2023	0	0	0	0	2	0	0	0	0	0	0	2
21 Jun 2023	0	0	0	0	0	0	1	0	0	0	0	1
22 Jun 2023	0	0	0	1	2	0	0	0	0	0	0	3
23 Jun 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 Jun 2023	0	0	1	0	1	1	30	68	19	5	0	125
25 Jun 2023	0	0	4	12	20	26	213	591	215	59	0	1140
26 Jun 2023	0	0	1	1	0	0	4	14	6	4	0	30
27 Jun 2023	0	0	0	2	8	13	132	259	90	29	0	533

**Table 37: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
28 Jun 2023	0	0	0	0	2	1	26	62	25	4	0	120
29 Jun 2023	0	0	2	11	41	32	337	780	330	70	0	1603
30 Jun 2023	0	0	0	0	2	0	0	6	3	1	0	12
01 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
10 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
11 Jul 2023	0	0	0	0	76	0	0	0	0	0	0	76
12 Jul 2023	0	0	0	0	35	0	0	0	0	0	0	35
13 Jul 2023	0	0	0	0	64	0	0	0	0	0	0	64
14 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Jul 2023	0	0	0	0	1	0	0	0	0	0	0	1
17 Jul 2023	0	0	0	0	0	0	2	10	3	0	0	15
18 Jul 2023	0	0	0	1	5	2	22	85	24	7	0	146
19 Jul 2023	0	0	0	1	4	0	0	0	1	0	0	6
20 Jul 2023	0	0	0	0	8	0	0	0	0	0	0	8
21 Jul 2023	0	0	7	4	28	8	330	1580	940	252	0	3149
22 Jul 2023	0	0	0	3	4	14	130	326	187	39	0	703
23 Jul 2023	0	0	0	0	30	0	0	0	0	0	0	30
24 Jul 2023	0	0	0	0	8	0	0	0	0	0	0	8

**Table 37: 2022 Spring Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 24-9856**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
25 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
26 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
27 Jul 2023	0	0	1	3	8	6	184	534	263	60	0	1059
28 Jul 2023	0	0	0	0	3	0	0	0	0	0	0	3
29 Jul 2023	0	0	0	0	0	0	0	0	0	0	0	0
30 Jul 2023	0	0	0	0	17	0	0	0	0	0	0	17
31 Jul 2023	0	0	0	0	25	0	0	0	0	0	0	25
<b>Bin Total</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>44</b>	<b>403</b>	<b>110</b>	<b>1508</b>	<b>4562</b>	<b>2239</b>	<b>552</b>	<b>0</b>	<b>9435</b>

**Table 38: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 21-8384**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
01 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Aug 2023	0	0	0	0	2	0	0	0	0	0	0	2
03 Aug 2023	0	0	0	0	2	0	0	0	0	0	0	2
04 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Aug 2023	0	0	2	10	4	6	306	1127	609	195	0	2259
06 Aug 2023	0	0	0	0	1	0	0	0	0	0	0	1
07 Aug 2023	0	0	0	0	6	0	0	0	0	0	0	6
08 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Aug 2023	0	0	0	0	0	0	0	3	6	3	0	12
10 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
11 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
12 Aug 2023	0	0	0	0	1	0	0	0	0	0	0	1
13 Aug 2023	0	0	0	0	0	0	3	28	33	23	0	87
14 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
18 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
19 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
20 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
21 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
22 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
23 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
25 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
26 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
27 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
28 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0



**Table 38: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 21-8384**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
29 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
30 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
31 Aug 2023	0	0	0	0	0	0	0	0	0	0	0	0
01 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Sep 2023	0	0	0	0	0	0	0	2	5	6	0	13
07 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
09 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
10 Sep 2023	0	0	0	0	0	0	9	72	65	22	0	168
11 Sep 2023	0	0	8	28	29	35	603	2638	1558	307	0	5206
12 Sep 2023	0	0	3	9	30	15	185	484	250	53	0	1029
13 Sep 2023	0	0	0	2	10	1	13	38	23	4	0	91
14 Sep 2023	0	0	2	28	25	19	247	645	324	50	0	1340
15 Sep 2023	0	0	0	0	29	0	0	0	0	0	0	29
16 Sep 2023	0	0	0	169	0	0	17	22	11	4	0	223
17 Sep 2023	0	0	0	339	0	0	0	0	0	0	0	339
18 Sep 2023	0	0	0	468	0	0	0	0	0	0	0	468
19 Sep 2023	0	0	0	249	0	0	0	0	0	0	0	249
20 Sep 2023	0	0	0	355	0	0	0	0	0	0	0	355
21 Sep 2023	0	0	0	380	0	0	0	0	0	0	0	380
22 Sep 2023	0	0	0	255	0	0	0	0	0	0	0	255
23 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
24 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
25 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0

**Table 38: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 21-8384**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
26 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
27 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
28 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
29 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
30 Sep 2023	0	0	0	0	0	0	0	0	0	0	0	0
01 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
04 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
08 Oct 2023	0	0	0	1	0	0	3	22	9	1	0	36
09 Oct 2023	0	0	0	1	0	0	0	0	0	0	0	1
10 Oct 2023	0	0	0	8	2	2	44	167	90	18	0	331
11 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
12 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
13 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
14 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
18 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
19 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
20 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
21 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
22 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
23 Oct 2023	0	0	0	0	0	0	0	1	1	2	0	4

**Table 38: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 21-8384**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
24 Oct 2023	0	0	0	2	0	0	0	0	0	0	0	2
25 Oct 2023	0	0	0	1	0	0	0	0	0	0	0	1
26 Oct 2023	0	0	0	8	0	0	0	0	0	0	0	8
27 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
28 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
29 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
30 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
31 Oct 2023	0	0	0	0	0	0	0	0	0	0	0	0
01 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
02 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
03 Nov 2023	0	0	0	0	0	0	0	3	8	0	0	11
04 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
05 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
06 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
07 Nov 2023	0	0	0	23	0	0	28	37	19	6	0	113
08 Nov 2023	0	0	0	1	0	0	7	1	0	0	0	9
09 Nov 2023	0	0	0	1	0	0	0	0	0	0	0	1
10 Nov 2023	0	0	0	5	0	0	0	5	0	0	0	10
11 Nov 2023	0	0	0	4	21	28	215	190	1	2	0	461
12 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
13 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
14 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
15 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
16 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
17 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
18 Nov 2023	0	0	0	0	0	0	12	50	44	9	0	115
19 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
20 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0

**Table 38: 2022 Fall Migration Radar Results - Melvin Lake Wind Farm Project**

**Project # 21-8384**

Date	Nominal Bird Target Range(m)(bin)											Total By Date
	0-25	25-50	50-100	100-150	150-200	200-250	250-500	500-1000	1000-1500	1500-2000	2000-3000	
21 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
22 Nov 2023	0	0	0	0	0	0	0	0	0	0	0	0
<b>Bin Total</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>2347</b>	<b>162</b>	<b>106</b>	<b>1692</b>	<b>5535</b>	<b>3056</b>	<b>705</b>	<b>0</b>	<b>13618</b>

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2022-04-26	150	12000	borchi2	Boreal Chickadee	0.6141	Y
76	Spectrogram 1	2022-04-28	150	12000	amerob	American Robin	0.3534	Y
11	Spectrogram 1	2022-04-28	150	12000	borchi2	Boreal Chickadee	0.2737	Y
65	Spectrogram 1	2022-04-28	150	12000	borchi2	Boreal Chickadee	0.384	Y
26	Spectrogram 1	2022-04-28	150	12000	pilwoo	Pileated Woodpecker	0.386	Y
28	Spectrogram 1	2022-04-28	150	12000	pilwoo	Pileated Woodpecker	0.6898	Y
12	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.2564	Y
13	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.6968	Y
16	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.599	Y
17	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.3451	Y
18	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.3252	Y
19	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.3026	Y
21	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.2917	Y
22	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.8132	Y
23	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.1241	Y
24	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.4918	Y
30	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.9735	Y
65	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.4215	Y
93	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.188	Y
96	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.4527	Y
98	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.2141	Y
100	Spectrogram 1	2022-04-28	150	12000	pingro	Pine Grosbeak	0.6796	Y
1	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.1301	Y
2	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.1383	Y
14	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.1328	Y
97	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.1076	Y
1	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.4312	Y
12	Spectrogram 1	2022-04-28	150	12000	purfin	Purple Finch	0.1829	Y
5	Spectrogram 1	2022-04-29	150	12000	borchi2	Boreal Chickadee	0.1857	Y
6	Spectrogram 1	2022-04-29	150	12000	purfin	Purple Finch	0.1171	Y
1	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.3908	Y
2	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9611	Y
7	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9184	Y
10	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9858	Y
11	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9275	Y
12	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.6096	Y
13	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.8329	Y
19	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9597	Y
20	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9695	Y
22	Spectrogram 1	2022-05-04	150	12000	pilwoo	Pileated Woodpecker	0.9067	Y
61	Spectrogram 1	2022-05-05	150	12000	pilwoo	Pileated Woodpecker	0.5107	Y
10	Spectrogram 1	2022-05-05	150	12000	pilwoo	Pileated Woodpecker	0.3267	Y
83	Spectrogram 1	2022-05-05	150	12000	pingro	Pine Grosbeak	0.1811	Y
85	Spectrogram 1	2022-05-05	150	12000	pingro	Pine Grosbeak	0.1045	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
6	Spectrogram 1	2022-05-06	150	12000	borchi2	Boreal Chickadee	0.9686	Y
47	Spectrogram 1	2022-05-06	150	12000	borchi2	Boreal Chickadee	0.21	Y
23	Spectrogram 1	2022-05-06	150	12000	borchi2	Boreal Chickadee	0.4719	Y
24	Spectrogram 1	2022-05-06	150	12000	borchi2	Boreal Chickadee	0.5481	Y
110	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.7898	Y
112	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.8329	Y
116	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.1295	Y
117	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.5214	Y
123	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.1007	Y
148	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.6139	Y
151	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.7242	Y
153	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.2111	Y
158	Spectrogram 1	2022-05-07	150	12000	borchi2	Boreal Chickadee	0.1657	Y
37	Spectrogram 1	2022-05-07	150	12000	gryjay	Canada Jay	0.1316	Y
11	Spectrogram 1	2022-05-08	150	12000	pilwoo	Pileated Woodpecker	0.2712	Y
12	Spectrogram 1	2022-05-08	150	12000	pilwoo	Pileated Woodpecker	0.6179	Y
13	Spectrogram 1	2022-05-08	150	12000	pilwoo	Pileated Woodpecker	0.1282	Y
7	Spectrogram 1	2022-05-08	150	12000	pilwoo	Pileated Woodpecker	0.1736	Y
6	Spectrogram 1	2022-05-08	150	12000	purfin	Purple Finch	0.1845	Y
8	Spectrogram 1	2022-05-08	150	12000	purfin	Purple Finch	0.1029	Y
73	Spectrogram 1	2022-05-10	150	12000	borchi2	Boreal Chickadee	0.7696	Y
76	Spectrogram 1	2022-05-10	150	12000	borchi2	Boreal Chickadee	0.1153	Y
116	Spectrogram 1	2022-05-10	150	12000	borchi2	Boreal Chickadee	0.1013	Y
22	Spectrogram 1	2022-05-10	150	12000	borchi2	Boreal Chickadee	0.8395	Y
76	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1116	Y
81	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.3081	Y
84	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1121	Y
85	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1551	Y
88	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1642	Y
89	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.2019	Y
92	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.5673	Y
96	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1019	Y
99	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.108	Y
100	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1037	Y
103	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1403	Y
109	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.2788	Y
113	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.7483	Y
156	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1205	Y
161	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1414	Y
163	Spectrogram 1	2022-05-10	150	12000	purfin	Purple Finch	0.1949	Y
1	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.369	Y
2	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4903	Y
4	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4257	Y
5	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3336	Y



Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
6	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3598	Y
7	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3039	Y
8	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3011	Y
9	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3837	Y
10	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.6877	Y
11	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3251	Y
12	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.341	Y
13	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4143	Y
14	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.5246	Y
15	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.5356	Y
16	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3763	Y
17	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.7381	Y
18	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3533	Y
2	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.8927	Y
3	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4243	Y
4	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4669	Y
5	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3538	Y
6	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.3194	Y
7	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4955	Y
8	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4398	Y
14	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.498	Y
15	Spectrogram 1	2022-05-11	150	12000	amerob	American Robin	0.4362	Y
1	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6471	Y
2	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3669	Y
3	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3586	Y
4	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5439	Y
5	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.783	Y
6	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6111	Y
8	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6319	Y
9	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5068	Y
10	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7794	Y
11	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.9596	Y
12	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8593	Y
13	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8122	Y
14	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6126	Y
15	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8395	Y
16	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8113	Y
17	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8249	Y
1	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8956	Y
2	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6442	Y
3	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4362	Y
4	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7317	Y
5	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5267	Y
6	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8529	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
7	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4701	Y
9	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3317	Y
10	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7773	Y
11	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5574	Y
12	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6807	Y
13	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7595	Y
14	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7311	Y
15	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3166	Y
16	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3857	Y
17	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4399	Y
18	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4224	Y
19	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6386	Y
20	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5997	Y
21	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3682	Y
22	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3478	Y
23	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3622	Y
24	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3767	Y
25	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4746	Y
26	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7658	Y
27	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5641	Y
28	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7346	Y
29	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8264	Y
30	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.349	Y
31	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5957	Y
32	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.39	Y
33	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.372	Y
34	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6735	Y
35	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.646	Y
36	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7535	Y
37	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4174	Y
38	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5501	Y
39	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.906	Y
40	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5012	Y
41	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.8428	Y
42	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4453	Y
43	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4065	Y
44	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7136	Y
45	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4212	Y
46	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4063	Y
47	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4011	Y
48	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3402	Y
49	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3867	Y
51	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3062	Y
52	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4275	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
53	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6432	Y
54	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4	Y
55	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5757	Y
56	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7434	Y
57	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3344	Y
58	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3301	Y
59	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3738	Y
60	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4127	Y
61	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3385	Y
62	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3487	Y
63	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4565	Y
64	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5001	Y
65	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3318	Y
66	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7355	Y
67	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3374	Y
68	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.637	Y
69	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4116	Y
70	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.7092	Y
71	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3497	Y
72	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4935	Y
73	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3244	Y
74	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4364	Y
75	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3137	Y
76	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4977	Y
77	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5305	Y
79	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3365	Y
80	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3235	Y
81	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4876	Y
82	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3697	Y
83	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.3122	Y
84	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.487	Y
85	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4319	Y
1	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5252	Y
6	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5599	Y
7	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.5964	Y
8	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.6121	Y
9	Spectrogram 1	2022-05-12	150	12000	amerob	American Robin	0.4045	Y
1	Spectrogram 1	2022-05-12	150	12000	sposan	Spotted Sandpiper	0.4111	Y
2	Spectrogram 1	2022-05-12	150	12000	sposan	Spotted Sandpiper	0.8266	Y
2	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.4186	Y
3	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.5667	Y
4	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3054	Y
5	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3094	Y
6	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3827	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
7	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3229	Y
8	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3358	Y
9	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3313	Y
10	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3449	Y
11	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.6534	Y
12	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3603	Y
13	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.4067	Y
14	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3737	Y
15	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3158	Y
16	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3445	Y
17	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3857	Y
18	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3808	Y
19	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.6872	Y
20	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.316	Y
21	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.3191	Y
22	Spectrogram 1	2022-05-13	150	12000	amerob	American Robin	0.4815	Y
1	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.4687	Y
2	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3519	Y
3	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3136	Y
4	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3157	Y
5	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3453	Y
6	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3483	Y
7	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3344	Y
8	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3372	Y
9	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3028	Y
10	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3001	Y
11	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.4366	Y
12	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3217	Y
13	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.3329	Y
14	Spectrogram 1	2022-05-14	150	12000	amerob	American Robin	0.4272	Y
2	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3447	Y
4	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3393	Y
5	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8312	Y
6	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.453	Y
7	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8313	Y
8	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.4368	Y
9	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.6956	Y
10	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.7985	Y
11	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8536	Y
12	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.4497	Y
13	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3383	Y
14	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8285	Y
15	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.6349	Y
16	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8008	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
17	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.5784	Y
18	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8612	Y
19	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3143	Y
20	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.9051	Y
21	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.6554	Y
22	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.7425	Y
23	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.4004	Y
24	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.7699	Y
25	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8802	Y
26	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3633	Y
27	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.5553	Y
28	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3739	Y
29	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8444	Y
30	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.8695	Y
31	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.382	Y
32	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.366	Y
33	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.7793	Y
34	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.5154	Y
35	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.5949	Y
36	Spectrogram 1	2022-05-14	150	12000	purfin	Purple Finch	0.3775	Y
1	Spectrogram 1	2022-05-16	150	12000	amerob	American Robin	0.3977	Y
1	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3361	Y
3	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.4252	Y
4	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.322	Y
5	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3489	Y
6	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3316	Y
7	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3161	Y
8	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.4982	Y
9	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3063	Y
10	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.5539	Y
11	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.84	Y
12	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.7062	Y
13	Spectrogram 1	2022-05-19	0	150	amerob	American Robin	0.8738	Y
14	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.6199	Y
15	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.4804	Y
16	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.8964	Y
17	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.8409	Y
18	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.8709	Y
19	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.7196	Y
20	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3586	Y
21	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.5079	Y
22	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.8205	Y
23	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.626	Y
24	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.8319	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
25	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.9131	Y
26	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.4506	Y
27	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.7932	Y
28	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.6795	Y
29	Spectrogram 1	2022-05-19	150	12000	amerob	American Robin	0.3721	Y
7	Spectrogram 1	2022-05-22	150	12000	purfin	Purple Finch	0.3308	Y
1	Spectrogram 1	2022-05-24	150	12000	comnig	Common Nighthawk	0.3405	Y
1	Spectrogram 1	2022-05-25	150	12000	amerob	American Robin	0.4166	Y
1	Spectrogram 1	2022-05-27	150	12000	amerob	American Robin	0.3132	Y
2	Spectrogram 1	2022-05-27	150	12000	amerob	American Robin	0.6507	Y
3	Spectrogram 1	2022-05-27	150	12000	amerob	American Robin	0.3062	Y
4	Spectrogram 1	2022-05-27	150	12000	amerob	American Robin	0.3275	Y
5	Spectrogram 1	2022-05-27	150	12000	amerob	American Robin	0.3244	Y
4	Spectrogram 1	2022-05-30	150	12000	chiswi	Chimney Swift	0.9601	Y
3	Spectrogram 1	2022-05-30	150	12000	olsfly	Olive-sided Flycatcher	0.4929	Y
1	Spectrogram 1	2022-06-04	150	12000	comnig	Common Nighthawk	0.6619	Y
1	Spectrogram 1	2022-06-06	150	12000	chiswi	Chimney Swift	0.9646	Y
2	Spectrogram 1	2022-06-06	150	12000	chiswi	Chimney Swift	0.985	Y
1	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.6047	Y
1	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.3519	Y
2	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.6951	Y
3	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.9567	Y
4	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.7421	Y
5	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.9638	Y
6	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.9385	Y
7	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.9861	Y
8	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.3215	Y
9	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.3358	Y
10	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.5141	Y
11	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.8703	Y
12	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.5218	Y
13	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.7035	Y
14	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.7803	Y
15	Spectrogram 1	2022-06-07	150	12000	comnig	Common Nighthawk	0.3235	Y
1	Spectrogram 1	2022-06-10	150	12000	comnig	Common Nighthawk	0.839	Y
2	Spectrogram 1	2022-06-10	150	12000	comnig	Common Nighthawk	0.7478	Y
3	Spectrogram 1	2022-06-10	150	12000	comnig	Common Nighthawk	0.8352	Y
4	Spectrogram 1	2022-06-10	150	12000	comnig	Common Nighthawk	0.5454	Y
5	Spectrogram 1	2022-06-10	150	12000	comnig	Common Nighthawk	0.9332	Y
2	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.3612	Y
3	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.438	Y
1	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.3535	Y
2	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.9515	Y
3	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.8971	Y



Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.6388	Y
2	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.5107	Y
3	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.6808	Y
4	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.8403	Y
5	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.9655	Y
6	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.8684	Y
7	Spectrogram 1	2022-06-11	150	12000	comnig	Common Nighthawk	0.8821	Y
1	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.7638	Y
1	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.3299	Y
2	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.7301	Y
3	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.3321	Y
4	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9356	Y
5	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9597	Y
2	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9027	Y
3	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9745	Y
4	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.6288	Y
5	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.8156	Y
6	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9301	Y
7	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9275	Y
8	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.7733	Y
9	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.4697	Y
10	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.8197	Y
11	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9055	Y
12	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9434	Y
13	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.733	Y
14	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.4051	Y
15	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.811	Y
16	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9137	Y
17	Spectrogram 1	2022-06-12	150	12000	comnig	Common Nighthawk	0.9234	Y
1	Spectrogram 1	2022-06-13	150	12000	comnig	Common Nighthawk	0.8778	Y
2	Spectrogram 1	2022-06-13	150	12000	comnig	Common Nighthawk	0.5154	Y
3	Spectrogram 1	2022-06-13	150	12000	comnig	Common Nighthawk	0.3904	Y
3	Spectrogram 1	2022-08-13	150	12000	amerob	American Robin	0.3409	Y
4	Spectrogram 1	2022-08-13	150	12000	amerob	American Robin	0.4088	Y
5	Spectrogram 1	2022-08-13	150	12000	amerob	American Robin	0.4061	Y
1	Spectrogram 1	2022-08-13	150	12000	comnig	Common Nighthawk	0.5435	Y
2	Spectrogram 1	2022-08-13	150	12000	comnig	Common Nighthawk	0.8732	Y
8	Spectrogram 1	2022-08-13	150	12000	olsfly	Olive-sided Flycatcher	0.3145	Y
10	Spectrogram 1	2022-08-13	150	12000	robgro	Rose-breasted Grosbeak	0.333	Y
1	Spectrogram 1	2022-09-15	150	12000	greyel	Greater Yellowlegs	0.6384	Y
2	Spectrogram 1	2022-09-15	150	12000	greyel	Greater Yellowlegs	0.9334	Y
3	Spectrogram 1	2022-09-15	150	12000	greyel	Greater Yellowlegs	0.5427	Y
45	Spectrogram 1	2022-10-20	150	12000	borchi2	Boreal Chickadee	0.5277	Y
2	Spectrogram 1	2022-10-23	150	12000	amerob	American Robin	0.1016	Y

Table 39: 2022 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Begin	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
3	Spectrogram 1	2022-10-23	150	12000	amerob	American Robin	0.3447	Y
10	Spectrogram 1	2022-10-23	150	12000	amerob	American Robin	0.1235	Y
14	Spectrogram 1	2022-10-23	150	12000	amerob	American Robin	0.1204	Y
79	Spectrogram 1	2022-10-28	150	12000	borchi2	Boreal Chickadee	0.332	Y
6	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.2937	Y
8	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.6513	Y
9	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.922	Y
10	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.993	Y
11	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.1942	Y
12	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.9846	Y
13	Spectrogram 1	2022-10-30	150	12000	borchi2	Boreal Chickadee	0.1949	Y
150	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.2538	Y
151	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.9725	Y
216	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.8086	Y
218	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.9667	Y
222	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.1105	Y
244	Spectrogram 1	2022-10-31	150	12000	borchi2	Boreal Chickadee	0.1029	Y

Table 40: 2022 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Date	Time
0	1.2	0	11025	Passeriformes	0.95033824	Passerellidae	0.99086			daejun	0.9929784	daejun	0.9929784	Y	2022-04-28	00:00.0
2.4	3.8	0	11025	Passeriformes	0.96891046	Passerellidae	0.99485874			daejun	0.996633	daejun	0.996633	Y	2022-04-28	00:02.4
226.6	227.8	0	11025	Passeriformes	0.96928376	Turdidae	0.9553515	THSH	0.9398354	herthr	0.9999981	herthr	0.9999981	Y	2022-04-28	03:46.6
231.8	233.2	0	11025	Passeriformes	0.97177535	Turdidae	0.9588815	THSH	0.94576347	herthr	0.9999989	herthr	0.9999989	Y	2022-04-28	03:51.8
316.6	318	0	11025	Passeriformes	0.9708502	Turdidae	0.95295215	THSH	0.937356	herthr	0.9999988	herthr	0.9999988	Y	2022-04-28	05:16.6
265.2	267	0	11025	Passeriformes	0.9708538	Passerellidae	0.9952851	SFHS	0.98924327	whtspa	0.99792236	whtspa	0.9979224	Y	2022-04-28	04:25.2
271	272.6	0	11025	Passeriformes	0.97166204	Passerellidae	0.99526465	SFHS	0.9893058	whtspa	0.99566674	whtspa	0.9956667	Y	2022-04-28	04:31.0
346.2	348	0	11025	Passeriformes	0.9616958	Passerellidae	0.99312097	SFHS	0.9845657	whtspa	0.99591655	whtspa	0.9959165	Y	2022-04-28	05:46.2
476.2	479.2	0	11025	Passeriformes	0.97198033	Passerellidae	0.9954507	SFHS	0.9896041	whtspa	0.99651366	whtspa	0.9965137	Y	2022-04-28	07:56.2
328.6	330.2	0	11025	Passeriformes	0.9720801	Turdidae	0.9598233			amerob	0.9999999	amerob	0.9999999	Y	2022-04-30	05:28.6
4.8	6.2	0	11025	Passeriformes	0.9702326	Passerellidae	0.99522877			daejun	0.9967507	daejun	0.9967507	Y	2022-05-05	00:04.8
2	3.8	0	11025	Passeriformes	0.9722058	Passerellidae	0.99555343	SFHS	0.99010825	whtspa	0.99855286	whtspa	0.9985529	Y	2022-05-05	00:02.0
13.6	15.4	0	11025	Passeriformes	0.9721921	Passerellidae	0.99553126	SFHS	0.99001104	whtspa	0.99842846	whtspa	0.9984285	Y	2022-05-05	00:13.6
32	33.6	0	11025	Passeriformes	0.9691316	Passerellidae	0.99424475	SFHS	0.9876868	whtspa	0.99791807	whtspa	0.9979181	Y	2022-05-05	00:32.0
392.2	393.8	0	11025	Passeriformes	0.9632354	Turdidae	0.9493719	THSH	0.9329279	herthr	0.9999988	herthr	0.9999988	Y	2022-05-05	06:32.2
408.4	410.4	0	11025	Passeriformes	0.9453058	Turdidae	0.9358811	THSH	0.9048124	herthr	0.99999654	herthr	0.9999965	Y	2022-05-05	06:48.4
414.8	416	0	11025	Passeriformes	0.935701	Turdidae	0.92639935	THSH	0.8939549	herthr	0.99998665	herthr	0.9999866	Y	2022-05-05	06:54.8
17.8	19.4	0	11025	Passeriformes	0.9699313	Passerellidae	0.9946116	SFHS	0.9888736	whtspa	0.9864522	whtspa	0.9864522	Y	2022-05-06	00:17.8
24.4	26	0	11025	Passeriformes	0.9722024	Passerellidae	0.9955317	SFHS	0.9899725	whtspa	0.995097	whtspa	0.995097	Y	2022-05-06	00:24.4
1.4	3.2	0	11025	Passeriformes	0.969729	Passerellidae	0.9948061	SFHS	0.9882606	whtspa	0.9979966	whtspa	0.9979966	Y	2022-05-07	00:01.4
28	30.4	0	11025	Passeriformes	0.97195923	Passerellidae	0.9955071	SFHS	0.989705	whtspa	0.9925287	whtspa	0.9925287	Y	2022-05-07	00:28.0
31.8	33.6	0	11025	Passeriformes	0.97197354	Passerellidae	0.99548376	SFHS	0.9897106	whtspa	0.99360657	whtspa	0.9936066	Y	2022-05-07	00:31.8
365.2	367.2	0	11025	Passeriformes	0.972221	Passerellidae	0.9955793			daejun	0.99700445	daejun	0.9970044	Y	2022-05-07	06:05.2
369.2	371.2	0	11025	Passeriformes	0.9722358	Passerellidae	0.99559116			daejun	0.9970119	daejun	0.9970119	Y	2022-05-07	06:09.2
99.6	101	0	11025	Passeriformes	0.9717423	Turdidae	0.95896304	THSH	0.94598776	herthr	0.9999989	herthr	0.9999989	Y	2022-05-07	01:39.6
127.6	129.2	0	11025	Passeriformes	0.971949	Turdidae	0.95909333	THSH	0.94616073	herthr	0.9999987	herthr	0.9999987	Y	2022-05-07	02:07.6
132	133.4	0	11025	Passeriformes	0.971676	Turdidae	0.9586343	THSH	0.9454793	herthr	0.99998355	herthr	0.9999835	Y	2022-05-07	02:12.0
141.2	143	0	11025	Passeriformes	0.97205925	Turdidae	0.95936424	THSH	0.9465116	herthr	0.9999989	herthr	0.9999989	Y	2022-05-07	02:21.2
143.4	145	0	11025	Passeriformes	0.97003347	Turdidae	0.9554976	THSH	0.9414111	herthr	0.9999988	herthr	0.9999988	Y	2022-05-07	02:23.4
527	528.8	0	11025	Passeriformes	0.97145534	Passerellidae	0.9955622	DESP	0.95080453	savspa	0.94872755	savspa	0.9487275	Y	2022-05-07	08:47.0
317.8	319	0	11025	Passeriformes	0.9664661	Passerellidae	0.9946274	SFHS	0.9812795	whtspa	0.8676986	whtspa	0.8676986	Y	2022-05-07	05:17.8
322	323.8	0	11025	Passeriformes	0.9712849	Passerellidae	0.9954928	SFHS	0.9895131	whtspa	0.99792457	whtspa	0.9979246	Y	2022-05-07	05:22.0
324	325.4	0	11025	Passeriformes	0.9722278	Passerellidae	0.9955733	SFHS	0.99013966	whtspa	0.9886791	whtspa	0.9886791	Y	2022-05-07	05:24.0
338.6	340.4	0	11025	Passeriformes	0.9720978	Passerellidae	0.9954472	SFHS	0.9899143	whtspa	0.9970018	whtspa	0.9970018	Y	2022-05-07	05:38.6
341.4	343.2	0	11025	Passeriformes	0.97192174	Passerellidae	0.99538815	SFHS	0.98964816	whtspa	0.99771416	whtspa	0.9977142	Y	2022-05-07	05:41.4
349.2	351	0	11025	Passeriformes	0.9701761	Passerellidae	0.99443275	SFHS	0.98858774	whtspa	0.9980411	whtspa	0.9980411	Y	2022-05-07	05:49.2
353.6	356.4	0	11025	Passeriformes	0.9721485	Passerellidae	0.9955188	SFHS	0.9901002	whtspa	0.9980824	whtspa	0.9980824	Y	2022-05-07	05:53.6
359.8	361.4	0	11025	Passeriformes	0.9721106	Passerellidae	0.99551105	SFHS	0.9899081	whtspa	0.9982198	whtspa	0.9982198	Y	2022-05-07	05:59.8
367.6	369.4	0	11025	Passeriformes	0.9722067	Passerellidae	0.995565	SFHS	0.9901186	whtspa	0.99767965	whtspa	0.9976797	Y	2022-05-07	06:07.6
6.2	7.6	0	11025	Passeriformes	0.956979	Passerellidae	0.9926218	SFHS	0.97995603	whtspa	0.99571997	whtspa	0.99572	Y	2022-05-08	00:06.2
230.8	232.2	0	11025	Passeriformes	0.93724006	Turdidae	0.8872868	THSH	0.8406602	herthr	0.99999833	herthr	0.9999983	Y	2022-05-08	03:50.8
157.6	159.4	0	11025	Passeriformes	0.972191	Passerellidae	0.9955332	SFHS	0.99003404	whtspa	0.99790657	whtspa	0.9979066	Y	2022-05-08	02:37.6
162.8	164.4	0	11025	Passeriformes	0.97214496	Passerellidae	0.9955225	SFHS	0.98995066	whtspa	0.9971745	whtspa	0.9971745	Y	2022-05-08	02:42.8
168.4	170.2	0	11025	Passeriformes	0.97217166	Passerellidae	0.99553114	SFHS	0.9900912	whtspa	0.9984302	whtspa	0.9984302	Y	2022-05-08	02:48.4
181.2	183	0	11025	Passeriformes	0.9721286	Passerellidae	0.995433	SFHS	0.98984563	whtspa	0.9978144	whtspa	0.9978144	Y	2022-05-08	03:01.2
191	192.8	0	11025	Passeriformes	0.9722056	Passerellidae	0.9955662	SFHS	0.99006724	whtspa	0.99395025	whtspa	0.9939502	Y	2022-05-08	03:11.0
220.8	222.4	0	11025	Passeriformes	0.9672348	Passerellidae	0.9942186	SFHS	0.98432	whtspa	0.9960955	whtspa	0.9960955	Y	2022-05-08	03:40.8
223.4	225.2	0	11025	Passeriformes	0.96810716	Passerellidae	0.9945279	SFHS	0.98751277	whtspa	0.9915257	whtspa	0.9915257	Y	2022-05-08	03:43.4
227.8	229.4	0	11025	Passeriformes	0.97203255	Passerellidae	0.995526	SFHS	0.98983616	whtspa	0.99288505	whtspa	0.9928851	Y	2022-05-08	03:47.8
230	231.6	0	11025	Passeriformes	0.9714248	Passerellidae	0.99524903	SFHS	0.9893511	whtspa	0.9959117	whtspa	0.9959117	Y	2022-05-08	03:50.0
230.8	232.6	0	11025	Passeriformes	0.947511	Passerellidae	0.9930735			daejun	0.99641895	daejun	0.996419	Y	2022-05-08	03:50.8
298.8	300.6	0	11025	Passeriformes	0.96879905	Passerellidae	0.994762			daejun	0.99634004	daejun	0.99634	Y	2022-05-08	04:58.8
402	403.8	0	11025	Passeriformes	0.97187275	Passerellidae	0.9954982			daejun	0.9969631	daejun	0.9969631	Y	2022-05-08	06:42.0
405.6	407.4	0	11025	Passeriformes	0.9721576	Passerellidae	0.9955414			daejun	0.9969849	daejun	0.9969849	Y	2022-05-08	06:45.6
410.4	413	0	11025	Passeriformes	0.97132516	Passerellidae	0.99532217			daejun	0.9968465	daejun	0.9968465	Y	2022-05-08	06:50.4
236.6	238.2	0	11025	Passeriformes	0.9669174	Passerellidae	0.9939156	SFHS	0.9742508	whtspa	0.985911	whtspa	0.985911	Y	2022-05-08	03:56.6
310	311.2	0	11025	Passeriformes	0.97203326	Turdidae	0.9591729	THSH	0.9465638	herthr	0.9999989	herthr	0.9999989	Y	2022-05-08	05:10.0
316	317.2	0	11025	Passeriformes	0.96690804	Turdidae	0.9507173	THSH	0.9344028	herthr	0.99999845	herthr	0.9999985	Y	2022-05-08	05:16.0
328.8	330	0	11025	Passeriformes	0.97206974	Turdidae	0.9595327	THSH	0.9468685	herthr	0.9999989	herthr	0.9999989	Y	2022-05-08	05:28.8

Table 40: 2022 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Date	Time
512.6	514.2	0	11025	Passeriformes	0.934148	Passerellidae	0.9918731	SFHS	0.97099364	whtspa	0.9810681	whtspa	0.9810681	Y	2022-05-09	08:32.6
535.4	538	0	11025	Passeriformes	0.97212404	Passerellidae	0.9953745	SFHS	0.98981184	whtspa	0.99815065	whtspa	0.9981506	Y	2022-05-09	08:55.4
539.8	541.6	0	11025	Passeriformes	0.97168577	Passerellidae	0.9951497	SFHS	0.98937035	whtspa	0.9813328	whtspa	0.9813328	Y	2022-05-09	08:59.8
339.4	341.2	0	11025	Passeriformes	0.9719753	Passerellidae	0.9955258	SFHS	0.9899917	whtspa	0.99754435	whtspa	0.9975443	Y	2022-05-10	05:39.4
373	374.8	0	11025	Passeriformes	0.97136444	Passerellidae	0.9952341	SFHS	0.9888243	whtspa	0.99770576	whtspa	0.9977058	Y	2022-05-10	06:13.0
934.4	936	0	11025	Passeriformes	0.97106576	Parulidae	0.95630324			amered	0.8995946	amered	0.8995946	Y	2022-08-12	42:36.4
2082.8	2084.2	0	11025	Passeriformes	0.97187626	Parulidae	0.95612496			bawwar	0.99999964	bawwar	0.9999996	Y	2022-08-12	01:44.8
794.2	796	0	11025	Passeriformes	0.97162694	Parulidae	0.9559925			amered	0.9016805	amered	0.9016805	Y	2022-08-12	38:16.2
2742.8	2744	0	11025	Passeriformes	0.97210115	Parulidae	0.9555255			bawwar	0.99986994	bawwar	0.9998699	Y	2022-08-13	10:44.8
1758.8	1760.4	0	11025	Passeriformes	0.9716974	Parulidae	0.9543046	SBUF	0.9367761	ovenbi1	0.9838546	ovenbi1	0.9838546	Y	2022-08-12	54:20.8
1348.2	1349.6	0	11025	Passeriformes	0.9715999	Parulidae	0.9312236	SBUF	0.89927757	ovenbi1	0.92658025	ovenbi1	0.9265803	Y	2022-08-13	47:30.2
2469.4	2470.8	0	11025	Charadriiformes	0.97809327	Scolopacidae	0.9947743			sposan	0.99898654	sposan	0.9989865	Y	2022-08-13	06:11.4
1364.6	1366.2	0	11025	Passeriformes	0.97166306	Passerellidae	0.98473847	HSSP	0.9970716	vesspa	0.99999714	vesspa	0.9999971	Y	2022-08-13	47:46.6
3400	3401.8	0	11025	Passeriformes	0.9720825	Parulidae	0.9562852			amered	0.9028608	amered	0.9028608	Y	2022-08-13	21:43.0
1017	1018.6	0	11025	Passeriformes	0.9722119	Parulidae	0.9563733			bawwar	0.9999995	bawwar	0.9999995	Y	2022-08-13	42:00.0
1606.2	1608	0	11025	Passeriformes	0.9722136	Parulidae	0.9563375			bawwar	0.99999931	bawwar	0.9999993	Y	2022-08-13	51:49.2
2590.4	2592	0	11025	Passeriformes	0.9713489	Parulidae	0.9110532	DEWA	0.999974	norpar	0.9995858	norpar	0.9995858	Y	2022-08-13	08:13.4
42.6	44.4	0	11025	Passeriformes	0.9721122	Parulidae	0.954259	SBUF	0.9235429	ovenbi1	0.96817577	ovenbi1	0.9681758	Y	2022-08-13	25:45.6
1391.2	1393	0	11025	Passeriformes	0.97210836	Parulidae	0.9561815	SBUF	0.94070256	ovenbi1	0.98583305	ovenbi1	0.985833	y	2022-08-13	48:14.2
1399.4	1401.2	0	11025	Passeriformes	0.97214466	Parulidae	0.9557786	SBUF	0.9381083	ovenbi1	0.98520166	ovenbi1	0.9852017	Y	2022-08-13	48:22.4
2730	2731.6	0	11025	Passeriformes	0.9712181	Parulidae	0.95192	BZWA	0.9803571	chswar	0.9657449	chswar	0.9657449	Y	2022-08-13	10:32.0
3138.2	3139.8	0	11025	Passeriformes	0.97119147	Parulidae	0.95053995	BZWA	0.9738512	chswar	0.95153946	chswar	0.9515395	Y	2022-08-13	17:20.2
102	103.8	0	11025	Passeriformes	0.97193617	Cardinalidae	0.9916966	GROS	0.9978604	robgro	0.9991571	robgro	0.9991571	Y	2022-08-13	26:44.0
1644	1645.8	0	11025	Passeriformes	0.9687015	Parulidae	0.9473667	ZEEP	0.95334876	camwar	0.99993145	camwar	0.9999315	Y	2022-08-13	52:26.0
2296.6	2298.2	0	11025	Passeriformes	0.9598646	Passerellidae	0.99397236			daejun	0.9961916	daejun	0.9961916	Y	2022-08-13	03:18.6
2562.6	2564	0	11025	Passeriformes	0.9583271	Passerellidae	0.99366635			daejun	0.99564844	daejun	0.9956484	Y	2022-08-13	07:44.6
601.4	602.8	0	11025	Passeriformes	0.9635391	Turdidae	0.9456268	THSH	0.9253091	herthr	0.9999969	herthr	0.9999969	Y	2022-08-13	35:03.4
608	609.8	0	11025	Passeriformes	0.9708916	Turdidae	0.952224	THSH	0.93643665	herthr	0.999992	herthr	0.999992	Y	2022-08-13	35:10.0
613.6	615.4	0	11025	Passeriformes	0.9686961	Turdidae	0.9538076	THSH	0.9355615	herthr	0.9999864	herthr	0.9999864	Y	2022-08-13	35:15.6
2280.6	2282	0	11025	Passeriformes	0.9720473	Parulidae	0.9516195	ZEEP	0.95240587	norwat	0.9999962	norwat	0.9999962	Y	2022-08-13	03:02.6
2586.8	2588.4	0	11025	Passeriformes	0.97195506	Parulidae	0.9536333	ZEEP	0.9503671	norwat	0.9999887	norwat	0.9999887	Y	2022-08-13	08:08.8
2119	2124	0	11025	Passeriformes	0.97170186	Parulidae	0.9556752	SBUF	0.94175845	ovenbi1	0.98628694	ovenbi1	0.9862869	Y	2022-08-13	00:21.0
2124	2125.6	0	11025	Passeriformes	0.97170186	Parulidae	0.9556752	SBUF	0.94175845	ovenbi1	0.98628694	ovenbi1	0.9862869	Y	2022-08-13	00:26.0
2473.8	2475.6	0	11025	Passeriformes	0.96853906	Sittidae	0.98355216			rebnt	0.9972983	rebnt	0.9972983	Y	2022-08-13	06:15.8
2477.4	2479	0	11025	Passeriformes	0.9685116	Sittidae	0.98152804			rebnt	0.996241	rebnt	0.996241	Y	2022-08-13	06:19.4
2479.8	2482	0	11025	Passeriformes	0.9722261	Sittidae	0.98417145			rebnt	0.9978794	rebnt	0.9978794	Y	2022-08-13	06:21.8
2484	2485.6	0	11025	Passeriformes	0.96866333	Sittidae	0.97351855			rebnt	0.98518133	rebnt	0.9851813	Y	2022-08-13	06:26.0
2724	2725.6	0	11025	Passeriformes	0.96875095	Sittidae	0.9836805			rebnt	0.9974896	rebnt	0.9974896	Y	2022-08-13	10:26.0
2739	2740.6	0	11025	Passeriformes	0.96337056	Sittidae	0.98181915			rebnt	0.99595034	rebnt	0.9959503	Y	2022-08-13	10:41.0
2747.4	2749	0	11025	Passeriformes	0.9707343	Sittidae	0.98384964			rebnt	0.9976209	rebnt	0.9976209	Y	2022-08-13	10:49.4
2597.4	2599.2	0	11025	Passeriformes	0.97210884	Passerellidae	0.99553114	SFHS	0.99004877	whtspa	0.9985032	whtspa	0.9985032	Y	2022-08-13	08:19.4
2608.4	2610.2	0	11025	Passeriformes	0.9715988	Passerellidae	0.9952478	SFHS	0.98971975	whtspa	0.99841774	whtspa	0.9984177	Y	2022-08-13	08:30.4
1032.8	1034.2	0	11025	Charadriiformes	0.9738183	Scolopacidae	0.9932011			sposan	0.99718755	sposan	0.9971876	Y	2022-08-13	41:12.8
1003.4	1005	0	11025	Passeriformes	0.9721609	Parulidae	0.956219	SBUF	0.9393079	ovenbi1	0.9822259	ovenbi1	0.9822259	Y	2022-08-13	40:45.4
950.2	952	0	11025	Passeriformes	0.97153205	Turdidae	0.9580141	THSH	0.94475114	swathr	0.8774689	swathr	0.8774689	Y	2022-08-13	39:52.2
1983	1984.2	0	11025	Passeriformes	0.9640271	Turdidae	0.931225	THSH	0.90386796	herthr	0.99987185	herthr	0.9998719	Y	2022-08-14	57:05.0
1988.8	1990.2	0	11025	Passeriformes	0.9721453	Turdidae	0.9595059	THSH	0.9467469	herthr	0.9999989	herthr	0.9999989	Y	2022-08-14	57:10.8
463.6	465	0	11025	Passeriformes	0.9713066	Turdidae	0.9566994	THSH	0.936646	veery	0.9837864	veery	0.9837864	Y	2022-08-14	31:45.6
2843.6	2845.4	0	11025	Charadriiformes	0.9811912	Scolopacidae	0.99551445			sposan	0.9994641	sposan	0.9994641	Y	2022-08-14	09:23.6
2607.8	2609.6	0	11025	Passeriformes	0.9722378	Parulidae	0.95648056			bawwar	0.9999999	bawwar	0.9999999	Y	2022-08-15	05:29.8
2118.8	2120.2	0	11025	Passeriformes	0.9696611	Parulidae	0.95238155			amered	0.8567779	amered	0.8567779	Y	2022-08-15	57:20.8
646.6	647.8	0	11025	Passeriformes	0.9722129	Parulidae	0.9560197			bawwar	0.9999944	bawwar	0.9999944	Y	2022-08-15	32:48.6
2543	2544.8	0	11025	Passeriformes	0.971711	Parulidae	0.9545106			canwar	0.9950303	canwar	0.9950303	Y	2022-08-15	04:25.0
2304.6	2306.4	0	11025	Passeriformes	0.97186524	Passerellidae	0.995531			daejun	0.996988	daejun	0.996988	Y	2022-08-15	00:26.6
2403	2404.6	0	11025	Passeriformes	0.97052145	Passerellidae	0.9951279			daejun	0.9967694	daejun	0.9967694	Y	2022-08-15	02:05.0
2643	2646	0	11025	Passeriformes	0.95894134	Passerellidae	0.9944155			daejun	0.99629647	daejun	0.9962965	Y	2022-08-15	06:05.0
2558.4	2559.8	0	11025	Passeriformes	0.97157043	Turdidae	0.9583954	THSH	0.94541323	herthr	0.9999987	herthr	0.9999987	Y	2022-08-15	04:40.4
3219	3220.4	0	11025	Passeriformes	0.971191	Turdidae	0.9574928	THSH	0.94321394	herthr	0.99999523	herthr	0.9999952	Y	2022-08-15	15:41.0
3151	3152.8	0	11025	Passeriformes	0.9721309	Sittidae	0.98454463			rebnt	0.9981329	rebnt	0.9981329	Y	2022-08-15	14:33.0



Table 40: 2022 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Date	Time
3182	3183.4	0	11025	Passeriformes	0.9705467	Sittidae	0.97596675			rebnut	0.9905405	rebnut	0.9905405	Y	2022-08-15	15:04.0
1441.8	1443	0	11025	Passeriformes	0.95298374	Cardinalidae	0.9245706	GROS	0.97316927	robgro	0.9837816	robgro	0.9837816	Y	2022-08-15	46:03.8
1496	1497.6	0	11025	Passeriformes	0.9720692	Turdidae	0.958575	THSH	0.94414026	veery	0.9914869	veery	0.9914869	Y	2022-08-15	46:58.0
1592.2	1593.6	0	11025	Passeriformes	0.9680578	Turdidae	0.9411639	THSH	0.8944906	veery	0.90769595	veery	0.9076959	Y	2022-08-15	48:34.2
2363	2364.8	0	11025	Passeriformes	0.9716054	Passerellidae	0.9952786	SFHS	0.98926777	whtspa	0.9979012	whtspa	0.9979012	Y	2022-08-15	01:25.0
2371	2372.6	0	11025	Passeriformes	0.9720543	Passerellidae	0.99541795	SFHS	0.9897668	whtspa	0.99820495	whtspa	0.9982049	Y	2022-08-15	01:33.0
2633.4	2635	0	11025	Passeriformes	0.96960306	Passerellidae	0.9922265	SFHS	0.9844871	whtspa	0.99637246	whtspa	0.9963725	Y	2022-08-15	05:55.4
2641	2642.8	0	11025	Passeriformes	0.9721924	Passerellidae	0.99554837	SFHS	0.9901247	whtspa	0.998359	whtspa	0.998359	Y	2022-08-15	06:03.0
2645.2	2646.4	0	11025	Passeriformes	0.97214127	Passerellidae	0.9954016	SFHS	0.98990226	whtspa	0.99834454	whtspa	0.9983445	Y	2022-08-15	06:07.2
2562	2563.8	0	11025	Passeriformes	0.97152454	Parulidae	0.94569737	DEWA	0.9999664	norpar	0.9996593	norpar	0.9996593	Y	2022-08-17	01:44.0
3441.6	3443.4	0	11025	Passeriformes	0.97180825	Parulidae	0.9558182	SBUF	0.9333462	ovenbi1	0.98107624	ovenbi1	0.9810762	Y	2022-08-19	13:23.6
112.8	114.6	0	11025	Passeriformes	0.9709819	Parulidae	0.9557953			amerd	0.90019226	amerd	0.9001923	Y	2022-08-20	15:54.8
1366.6	1368	0	11025	Passeriformes	0.97064465	Parulidae	0.94162947			canwar	0.91062576	canwar	0.9106258	Y	2022-08-20	36:48.6
2557	2558.6	0	11025	Passeriformes	0.97040516	Parulidae	0.95480907	ZEEP	0.9487426	camwar	0.9998505	camwar	0.9998505	Y	2022-08-21	55:39.0
44.8	46.6	0	11025	Passeriformes	0.972039	Parulidae	0.9558456			amerd	0.90106964	amerd	0.9010696	Y	2022-08-26	04:46.8
479.4	481.2	0	11025	Passeriformes	0.9721592	Parulidae	0.9563616			amerd	0.89689875	amerd	0.8968987	Y	2022-08-26	12:01.4
1889.8	1891.4	0	11025	Passeriformes	0.9702983	Parulidae	0.94743526			amerd	0.8876832	amerd	0.8876832	Y	2022-08-26	35:31.8
229	230.4	0	11025	Passeriformes	0.97076076	Parulidae	0.9428397	ZEEP	0.95013607	norwat	0.9999924	norwat	0.9999924	Y	2022-08-26	07:51.0
1064.2	1066	0	11025	Passeriformes	0.9710513	Parulidae	0.95189816			wlswar	0.99122167	wlswar	0.9912217	Y	2022-08-26	21:46.2
1704.4	1705.6	0	11025	Passeriformes	0.9643803	Parulidae	0.9308785	ZEEP	0.82692194	camwar	0.8317721	camwar	0.8317721	Y	2022-08-26	30:26.4
337.6	339.4	0	11025	Passeriformes	0.97099555	Parulidae	0.9551396			amerd	0.8929986	amerd	0.8929986	Y	2022-09-01	57:39.6
1130	1131.8	0	11025	Passeriformes	0.97070426	Passerellidae	0.99332833	DESP	0.98600686	savspa	0.9950093	savspa	0.9950093	Y	2022-09-01	10:52.0
773.2	775	0	11025	Passeriformes	0.97198343	Parulidae	0.9544904	ZEEP	0.95971143	camwar	0.9999999	camwar	0.9999999	Y	2022-09-03	00:55.2
299.8	301.4	0	11025	Passeriformes	0.97216076	Parulidae	0.956426			amerd	0.90293556	amerd	0.9029356	Y	2022-09-04	51:01.8
1370	1371.6	0	11025	Passeriformes	0.9720814	Parulidae	0.9560928			amerd	0.900963	amerd	0.900963	Y	2022-09-04	08:52.0
1692	1693.8	0	11025	Passeriformes	0.9720919	Parulidae	0.9563524			amerd	0.9029866	amerd	0.9029866	Y	2022-09-04	14:14.0
2111.8	2113.6	0	11025	Passeriformes	0.94996804	Parulidae	0.9281147			amerd	0.8876973	amerd	0.8876973	Y	2022-09-05	19:13.8
2713.6	2715.2	0	11025	Passeriformes	0.97189385	Parulidae	0.95534945			amerd	0.9017785	amerd	0.9017785	Y	2022-09-06	29:15.6
3172.2	3173.8	0	11025	Passeriformes	0.9720339	Parulidae	0.9562772			amerd	0.902813	amerd	0.902813	Y	2022-09-06	36:54.2
570.8	572.6	0	11025	Passeriformes	0.96993667	Passerellidae	0.9935759	DESP	0.987573	savspa	0.9932805	savspa	0.9932805	Y	2022-09-05	53:32.8
730.2	731.4	0	11025	Passeriformes	0.97121865	Parulidae	0.95492136			canwar	0.9769291	canwar	0.9769291	Y	2022-09-06	56:12.2
3530.2	3531.8	0	11025	Passeriformes	0.9685127	Parulidae	0.9337006			bawwar	0.9999677	bawwar	0.9999677	Y	2022-09-09	37:52.2
377.6	379.4	0	11025	Passeriformes	0.97132224	Passerellidae	0.9952194	DESP	0.98957527	savspa	0.99554706	savspa	0.9955471	Y	2022-09-10	43:19.6
385.2	387	0	11025	Passeriformes	0.971177	Passerellidae	0.99397486	DESP	0.98939764	savspa	0.9944143	savspa	0.9944143	Y	2022-09-10	43:27.2
540.6	542.4	0	11025	Passeriformes	0.9721501	Parulidae	0.9552888	ZEEP	0.9554026	norwat	0.95327896	norwat	0.953279	Y	2022-09-10	44:02.6
800.2	801.6	0	11025	Passeriformes	0.96525174	Parulidae	0.87519807	DEWA	0.99998283	norpar	0.9998826	norpar	0.9998826	Y	2022-09-11	48:22.2
1121.2	1122.8	0	11025	Passeriformes	0.9719121	Passerellidae	0.99534565	SFHS	0.98979247	whtspa	0.9984268	whtspa	0.9984268	Y	2022-09-11	53:43.2
423	424.8	0	11025	Passeriformes	0.97102934	Parulidae	0.90618706	DEWA	0.99996626	norpar	0.9995521	norpar	0.9995521	Y	2022-09-11	40:05.0
10.6	12.4	0	11025	Passeriformes	0.97201604	Parulidae	0.9560971			bawwar	0.9999989	bawwar	0.9999989	Y	2022-09-11	33:12.6
1302.8	1304.4	0	11025	Passeriformes	0.9620933	Parulidae	0.9228868	DEWA	0.99995375	norpar	0.99890435	norpar	0.9989043	Y	2022-09-11	54:44.8
3000.2	3002	0	11025	Passeriformes	0.9694072	Passerellidae	0.99403363	SFHS	0.9883228	whtspa	0.99760324	whtspa	0.9976032	Y	2022-09-12	21:02.2
3592.8	3594	0	11025	Passeriformes	0.970362	Parulidae	0.94908386	BZWA	0.9769448	chswar	0.92150605	chswar	0.921506	Y	2022-09-13	30:55.8
754.2	755.8	0	11025	Passeriformes	0.97184247	Parulidae	0.9556938	SBUF	0.92614865	ovenbi1	0.929557	ovenbi1	0.929557	Y	2022-09-13	43:37.2
977.8	979.6	0	11025	Passeriformes	0.9707333	Passerellidae	0.9939366	DESP	0.98657435	savspa	0.9969292	savspa	0.9969292	Y	2022-09-13	47:19.8
2184.4	2186	0	11025	Passeriformes	0.94380504	Passerellidae	0.9877551	SFHS	0.95306605	whtspa	0.9863002	whtspa	0.9863002	Y	2022-09-13	07:26.4
2197.8	2199	0	11025	Passeriformes	0.81321007	Passerellidae	0.9681782	SFHS	0.916661	whtspa	0.95031273	whtspa	0.9503127	Y	2022-09-13	07:39.8
3187	3188.6	0	11025	Passeriformes	0.96662784	Passerellidae	0.9938612	SFHS	0.98619115	whtspa	0.99626476	whtspa	0.9962648	Y	2022-09-13	24:09.0
3198.4	3199.6	0	11025	Passeriformes	0.92137593	Passerellidae	0.9794006	SFHS	0.96847165	whtspa	0.9898519	whtspa	0.9898519	Y	2022-09-13	24:20.4
3497.4	3498.8	0	11025	Passeriformes	0.9697833	Parulidae	0.91838735	DEWA	0.9999788	norpar	0.99981016	norpar	0.9998102	Y	2022-09-13	29:19.4
848.8	850.6	0	11025	Passeriformes	0.95842576	Passerellidae	0.9930606	SFHS	0.9867004	whtspa	0.9978065	whtspa	0.9978065	Y	2022-09-13	45:10.8
854.6	856.4	0	11025	Passeriformes	0.970833	Passerellidae	0.9953122	SFHS	0.9894448	whtspa	0.9983181	whtspa	0.9983181	Y	2022-09-13	45:16.6
857	858.6	0	11025	Passeriformes	0.9720989	Passerellidae	0.99550265	SFHS	0.9900323	whtspa	0.99854016	whtspa	0.9985402	Y	2022-09-13	45:19.0
1172.6	1174	0	11025	Passeriformes	0.9679276	Passerellidae	0.9946371	SFHS	0.98800665	whtspa	0.99769753	whtspa	0.9976975	Y	2022-09-13	50:34.6
1228.6	1230	0	11025	Passeriformes	0.9707257	Turdidae	0.95491636	THSH	0.9411674	swathr	0.8731953	swathr	0.8731953	Y	2022-09-13	51:30.6
1234	1235.6	0	11025	Passeriformes	0.9719821	Turdidae	0.95863044	THSH	0.94545466	swathr	0.8822879	swathr	0.8822879	Y	2022-09-13	51:36.0
2364	2365.6	0	11025	Passeriformes	0.96593875	Turdidae	0.94884586	THSH	0.9308939	swathr	0.86712706	swathr	0.8671271	Y	2022-09-13	10:26.0
2370.4	2372.2	0	11025	Passeriformes	0.9704788	Turdidae	0.9526672	THSH	0.9389721	swathr	0.87370986	swathr	0.8737099	Y	2022-09-13	10:32.4
2629	2630.6	0	11025	Passeriformes	0.96880263	Turdidae	0.95191574	THSH	0.9362341	swathr	0.87417513	swathr	0.8741751	Y	2022-09-13	14:51.0
2639.2	2641	0	11025	Passeriformes	0.9719967	Turdidae	0.95890486	THSH	0.9459932	swathr	0.8836075	swathr	0.8836075	Y	2022-09-13	15:01.2

Table 40: 2022 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Date	Time
2662.8	2664.4	0	11025	Passeriformes	0.97174126	Turdidae	0.9572539	THSH	0.9441523	swathr	0.8785495	swathr	0.8785495	Y	2022-09-13	15:24.8
945.2	947	0	11025	Passeriformes	0.9712861	Passerellidae	0.9953441	SFHS	0.9896108	whtspa	0.9982998	whtspa	0.9982998	Y	2022-09-13	46:47.2
3525.2	3526.8	0	11025	Passeriformes	0.9719339	Passerellidae	0.99480385	SFHS	0.98753697	whtspa	0.9972083	whtspa	0.9972083	Y	2022-09-13	29:47.2
3529.2	3530.6	0	11025	Passeriformes	0.9704633	Passerellidae	0.9953371	SFHS	0.9891243	whtspa	0.9956463	whtspa	0.9956463	Y	2022-09-13	29:51.2
3533.2	3534.6	0	11025	Passeriformes	0.9490959	Passerellidae	0.98863375	SFHS	0.91142917	whtspa	0.9044224	whtspa	0.9044224	Y	2022-09-13	29:55.2
3546.4	3548.2	0	11025	Passeriformes	0.9717866	Passerellidae	0.9953816	SFHS	0.9896516	whtspa	0.9983583	whtspa	0.9983583	Y	2022-09-13	30:08.4
216	217.4	0	11025	Passeriformes	0.9720721	Parulidae	0.95524293	BZWA	0.98240894	comyel	0.9999999	comyel	0.9999999	Y	2022-09-13	34:39.0
341.4	344.2	0	11025	Passeriformes	0.9720972	Parulidae	0.95559317	BZWA	0.9811901	comyel	0.99999976	comyel	0.9999998	Y	2022-09-13	36:44.4
346.6	348.2	0	11025	Passeriformes	0.97079974	Parulidae	0.95408976	BZWA	0.9807428	comyel	0.9999982	comyel	0.9999982	Y	2022-09-13	36:49.6
370.6	372.4	0	11025	Passeriformes	0.97174364	Parulidae	0.95471627	BZWA	0.9805629	comyel	0.9999999	comyel	0.9999999	Y	2022-09-13	37:13.6
260	261.4	0	11025	Passeriformes	0.96054274	Passerellidae	0.9928565			daejun	0.9954775	daejun	0.9954775	Y	2022-09-13	35:23.0
159.6	161.2	0	11025	Passeriformes	0.96754843	Passerellidae	0.9948998	SFHS	0.9880354	whtspa	0.99761474	whtspa	0.9976147	Y	2022-09-13	33:42.6
1053.4	1055.2	0	11025	Passeriformes	0.9715758	Passerellidae	0.99530065	SFHS	0.9896393	whtspa	0.998423	whtspa	0.998423	Y	2022-09-13	48:36.4
83.6	85.2	0	11025	Passeriformes	0.9695434	Turdidae	0.9559204	THSH	0.9417959	swathr	0.8730318	swathr	0.8730318	Y	2022-09-13	30:23.6
1249.2	1250.8	0	11025	Passeriformes	0.9663299	Passerellidae	0.99363285	SFHS	0.98567677	whtspa	0.97683877	whtspa	0.9768388	Y	2022-09-13	49:49.2
881.2	883	0	11025	Passeriformes	0.97180206	Parulidae	0.9556886			bawwar	0.99999917	bawwar	0.9999992	Y	2022-09-13	43:43.2
843	844.2	0	11025	Passeriformes	0.9720304	Parulidae	0.95612025			bawwar	0.9999999	bawwar	0.9999999	Y	2022-09-13	43:05.0
2152.4	2154.2	0	11025	Passeriformes	0.96673876	Passerellidae	0.9922311	SFHS	0.98385435	whtspa	0.9975926	whtspa	0.9975926	Y	2022-09-13	04:54.4
2363	2364.6	0	11025	Passeriformes	0.96158975	Cardinalidae	0.98619044	GROS	0.9954892	robgro	0.9980229	robgro	0.9980229	Y	2022-09-14	08:25.0
441.8	443.6	0	11025	Passeriformes	0.9719044	Passerellidae	0.9953258	SFHS	0.98958147	whtspa	0.9981804	whtspa	0.9981804	Y	2022-09-14	36:24.8
453.2	455	0	11025	Passeriformes	0.9717935	Passerellidae	0.99526644	SFHS	0.98978245	whtspa	0.9984633	whtspa	0.9984633	Y	2022-09-14	36:36.2
462.8	464.6	0	11025	Passeriformes	0.9719416	Passerellidae	0.99463224	SFHS	0.98757344	whtspa	0.9965403	whtspa	0.9965403	Y	2022-09-14	36:45.8
501	502.8	0	11025	Passeriformes	0.97219896	Passerellidae	0.995494	SFHS	0.98971635	whtspa	0.9924165	whtspa	0.9924165	Y	2022-09-14	37:24.0
574.8	576.4	0	11025	Passeriformes	0.9721925	Passerellidae	0.9955446	SFHS	0.9900932	whtspa	0.9977367	whtspa	0.9977367	Y	2022-09-14	38:37.8
2789.6	2791.4	0	11025	Passeriformes	0.9719497	Parulidae	0.9540177	ZEEP	0.9609532	norwat	0.9994879	norwat	0.9994879	Y	2022-09-14	14:31.6
863.8	865.2	0	11025	Passeriformes	0.97222114	Parulidae	0.9562795			bawwar	0.9999926	bawwar	0.9999926	Y	2022-09-14	42:25.8
186.4	188	0	11025	Passeriformes	0.97053456	Parulidae	0.95192	SBUF	0.90682966	ovenbi1	0.9310866	ovenbi1	0.9310866	Y	2022-09-14	31:08.4
1861	1862.2	0	11025	Passeriformes	0.9695962	Passerellidae	0.9928069	DESP	0.98771185	savspa	0.9970637	savspa	0.9970637	Y	2022-09-14	59:03.0
2451	2452.8	0	11025	Passeriformes	0.97190475	Passerellidae	0.9949693	DESP	0.99054074	savspa	0.9980179	savspa	0.9980179	Y	2022-09-14	08:53.0
2548.8	2550.2	0	11025	Passeriformes	0.9722116	Parulidae	0.95570666	MWAR	0.9990396	mouwar	0.99218583	mouwar	0.9921858	Y	2022-09-15	10:30.8
153	154.6	0	11025	Passeriformes	0.9721205	Parulidae	0.95610696	BZWA	0.9801278	comyel	0.99989605	comyel	0.999896	Y	2022-09-15	30:36.0
657.8	659.6	0	11025	Passeriformes	0.97222793	Passerellidae	0.9945227			daejun	0.99615943	daejun	0.9961594	Y	2022-09-15	39:00.8
708.8	710.4	0	11025	Passeriformes	0.9713677	Passerellidae	0.99547535			daejun	0.9969625	daejun	0.9969625	Y	2022-09-15	39:51.8
727.4	728.8	0	11025	Passeriformes	0.9714948	Passerellidae	0.99548537			daejun	0.99697924	daejun	0.9969792	Y	2022-09-15	40:10.4
773.2	774.6	0	11025	Passeriformes	0.96051633	Passerellidae	0.99386805			daejun	0.99566156	daejun	0.9956616	Y	2022-09-15	40:56.2
793	795	0	11025	Passeriformes	0.970454	Passerellidae	0.9952791			daejun	0.9967129	daejun	0.9967129	Y	2022-09-15	41:16.0
796.6	798.4	0	11025	Passeriformes	0.972194	Passerellidae	0.9955705			daejun	0.9969977	daejun	0.9969977	Y	2022-09-15	41:19.6
799	802.8	0	11025	Passeriformes	0.9722334	Passerellidae	0.9955909			daejun	0.99701226	daejun	0.9970123	Y	2022-09-15	41:22.0
914	916	0	11025	Passeriformes	0.9704187	Turdidae	0.95554674	THSH	0.9413438	herthr	0.99999857	herthr	0.9999986	Y	2022-09-15	43:17.0
1669.8	1671.8	0	11025	Charadriiformes	0.98129547	Scolopacidae	0.995468			greyel	0.9993476	greyel	0.9993476	Y	2022-09-15	53:49.8
1673.6	1675.4	0	11025	Charadriiformes	0.98137397	Scolopacidae	0.9956006			greyel	0.9997501	greyel	0.9997501	Y	2022-09-15	53:53.6
1682.2	1684.2	0	11025	Charadriiformes	0.98145616	Scolopacidae	0.9956672			greyel	0.9997626	greyel	0.9997626	Y	2022-09-15	54:02.2
2205.2	2207	0	11025	Passeriformes	0.9721983	Parulidae	0.9562865			bawwar	0.9999814	bawwar	0.9999814	Y	2022-09-15	02:47.2
2457.4	2459	0	11025	Passeriformes	0.97223693	Parulidae	0.9564064			bawwar	0.9999999	bawwar	0.9999999	Y	2022-09-15	06:59.4
1236.6	1238	0	11025	Passeriformes	0.9717667	Parulidae	0.953052	BZWA	0.97926074	chswar	0.9592769	chswar	0.9592769	Y	2022-09-15	46:38.6
3089.8	3091.4	0	11025	Passeriformes	0.9717387	Parulidae	0.95416194	ZEEP	0.96094984	norwat	0.9999558	norwat	0.9999558	Y	2022-09-15	17:31.8
408.4	410.2	0	11025	Passeriformes	0.9715678	Parulidae	0.95101255	DEWA	0.99997187	norpar	0.9997464	norpar	0.9997464	Y	2022-09-15	32:50.4
69	70.8	0	11025	Passeriformes	0.9722297	Parulidae	0.95642745			bawwar	0.9999993	bawwar	0.9999993	Y	2022-09-15	27:11.0
1859.4	1861.2	0	11025	Passeriformes	0.97223693	Parulidae	0.95648205			bawwar	0.9999999	bawwar	0.9999999	Y	2022-09-15	57:01.4
3539.2	3540.8	0	11025	Passeriformes	0.97141516	Parulidae	0.93386304	DEWA	0.9999789	norpar	0.9997181	norpar	0.9997181	Y	2022-09-15	25:01.2
2597.6	2599.4	0	11025	Passeriformes	0.97127455	Passerellidae	0.99528897	SFHS	0.98962337	whtspa	0.9981731	whtspa	0.9981731	Y	2022-09-15	09:19.6
299.6	301.4	0	11025	Passeriformes	0.9720268	Turdidae	0.95761305			amerob	0.9999994	amerob	0.9999994	Y	2022-09-16	31:02.6
832.4	834.2	0	11025	Passeriformes	0.97200376	Parulidae	0.9558992	BZWA	0.97797215	comyel	0.9999999	comyel	0.9999999	Y	2022-09-16	39:55.4
403.4	405.2	0	11025	Passeriformes	0.9709217	Passerellidae	0.99423164	DESP	0.98845893	savspa	0.99255085	savspa	0.9925508	Y	2022-09-16	32:46.4
24	25.8	0	11025	Passeriformes	0.97120607	Passerellidae	0.9952023	SFHS	0.9873466	whtspa	0.9964071	whtspa	0.9964071	Y	2022-09-16	26:27.0
48	49.8	0	11025	Passeriformes	0.97208077	Passerellidae	0.9954326	SFHS	0.98928624	whtspa	0.9980032	whtspa	0.9980032	Y	2022-09-16	26:51.0
67.2	70.2	0	11025	Passeriformes	0.9721966	Passerellidae	0.9955354	SFHS	0.9900712	whtspa	0.99848986	whtspa	0.9984899	Y	2022-09-16	27:10.2
1435.4	1436.6	0	11025	Passeriformes	0.9695602	Parulidae	0.926769	SBUF	0.90369755	palwar	0.9999975	palwar	0.9999975	Y	2022-09-17	47:58.4
1136.8	1138.4	0	11025	Passeriformes	0.9703132	Parulidae	0.93852705	SBUF	0.915303	palwar	0.9999999	palwar	0.9999999	Y	2022-09-17	42:59.8



Table 40: 2022 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Date	Time
1438.8	1440.4	0	11025	Passeriformes	0.9679616	Parulidae	0.93449056	SBUF	0.916072	palwar	0.99999976	palwar	0.9999998	Y	2022-09-17	48:01.8
1215.4	1217	0	11025	Passeriformes	0.9722363	Parulidae	0.9564622			bawwar	0.9999999	bawwar	0.9999999	Y	2022-09-17	42:17.4
983.6	984.8	0	11025	Passeriformes	0.9635238	Parulidae	0.9419796	BZWA	0.9712513	comyel	0.9999939	comyel	0.9999939	Y	2022-09-17	38:25.6
2069.6	2071.4	0	11025	Passeriformes	0.97063464	Parulidae	0.93823993	DEWA	0.999956	norpar	0.99942744	norpar	0.9994274	Y	2022-09-17	56:31.6
2086.6	2088.2	0	11025	Passeriformes	0.9717409	Parulidae	0.9370418	DEWA	0.99998367	norpar	0.99988353	norpar	0.9998835	Y	2022-09-17	56:48.6
3301.2	3302.6	0	11025	Passeriformes	0.97214913	Parulidae	0.9557878	SBUF	0.9358248	ovenbi1	0.9485503	ovenbi1	0.9485503	Y	2022-09-17	17:03.2
2152.2	2153.8	0	11025	Passeriformes	0.96824676	Parulidae	0.9045556	DEWA	0.99993336	norpar	0.99899644	norpar	0.9989964	Y	2022-09-17	57:54.2
3403.2	3404.6	0	11025	Passeriformes	0.96962076	Parulidae	0.91465867	DEWA	0.99997807	norpar	0.9998369	norpar	0.9998369	Y	2022-09-18	18:45.2
847.2	848.6	0	11025	Passeriformes	0.97184294	Turdidae	0.95825344	THSH	0.94535685	herthr	0.9999988	herthr	0.9999988	Y	2022-09-19	34:11.2
1897.2	1899	0	11025	Passeriformes	0.9716342	Sittidae	0.9840162			rebnt	0.9977399	rebnt	0.9977399	Y	2022-09-19	51:41.2
90.8	92.4	0	11025	Passeriformes	0.97189575	Passerellidae	0.9953694	SFHS	0.98906404	whtspa	0.99792826	whtspa	0.9979283	Y	2022-09-19	21:34.8
88.2	89.8	0	11025	Passeriformes	0.96470827	Passerellidae	0.9924522	SFHS	0.98577	whtspa	0.99748695	whtspa	0.9974869	Y	2022-09-21	17:30.2
617.2	618.8	0	11025	Passeriformes	0.97199553	Passerellidae	0.995379	SFHS	0.9891641	whtspa	0.99110454	whtspa	0.9911045	Y	2022-09-21	26:19.2
1606.6	1608.2	0	11025	Passeriformes	0.97068644	Passerellidae	0.9949167	SFHS	0.98877805	whtspa	0.99813074	whtspa	0.9981307	Y	2022-09-21	42:48.6
2861.2	2863	0	11025	Passeriformes	0.9700014	Passerellidae	0.99321014	DESP	0.9868701	savspa	0.98459876	savspa	0.9845988	Y	2022-09-21	03:43.2
1477.6	1479.4	0	11025	Passeriformes	0.9722286	Passerellidae	0.99557096	DESP	0.9919573	savspa	0.9984767	savspa	0.9984767	Y	2022-09-22	38:40.6
2208.2	2209.6	0	11025	Passeriformes	0.9696824	Passerellidae	0.9938753	DESP	0.98917294	savspa	0.9962288	savspa	0.9962288	Y	2022-09-22	50:51.2
1102	1103.4	0	11025	Charadriiformes	0.97720546	Scolopacidae	0.99411666			sposan	0.99852234	sposan	0.9985223	Y	2022-09-24	27:24.0
2283.2	2284.6	0	11025	Passeriformes	0.972041	Turdidae	0.9580351	THSH	0.94440985	herthr	0.9999988	herthr	0.9999988	Y	2022-09-25	47:06.2
2298	2299.4	0	11025	Passeriformes	0.9717145	Turdidae	0.95887065	THSH	0.9458925	herthr	0.9999989	herthr	0.9999989	Y	2022-09-25	47:21.0
2313.6	2315	0	11025	Passeriformes	0.9713996	Turdidae	0.9584132	THSH	0.9452922	herthr	0.9999987	herthr	0.9999987	Y	2022-09-25	47:36.6
2316.2	2317.6	0	11025	Passeriformes	0.97216314	Turdidae	0.95960546	THSH	0.9468821	herthr	0.9999989	herthr	0.9999989	Y	2022-09-25	47:39.2
2608.4	2609.8	0	11025	Passeriformes	0.9712091	Parulidae	0.9528427	BZWA	0.9630013	chswar	0.9634843	chswar	0.9634843	Y	2022-09-25	50:30.4
2585.4	2587.2	0	11025	Passeriformes	0.9669581	Passerellidae	0.99241287	DESP	0.98553604	savspa	0.9929132	savspa	0.9929132	Y	2022-09-25	50:07.4
1244	1245.8	0	11025	Passeriformes	0.9717287	Parulidae	0.9525421	BZWA	0.98155606	comyel	0.9999999	comyel	0.9999999	Y	2022-09-25	27:46.0
2014.8	2016.4	0	11025	Passeriformes	0.9721432	Parulidae	0.9556739	BZWA	0.9459167	comyel	0.99844664	comyel	0.9984466	Y	2022-09-25	40:36.8
2109.6	2111.4	0	11025	Passeriformes	0.97153586	Parulidae	0.95356375	BZWA	0.98072445	comyel	0.9999999	comyel	0.9999999	Y	2022-09-25	42:11.6
1324.4	1325.6	0	11025	Passeriformes	0.9719644	Parulidae	0.95480615	BZWA	0.9800821	comyel	0.9999995	comyel	0.9999995	Y	2022-09-26	29:06.4
2290.4	2292.2	0	11025	Passeriformes	0.97189766	Passerellidae	0.99547535			daejun	0.9969025	daejun	0.9969025	Y	2022-09-27	43:13.4
3422	3423.6	0	11025	Passeriformes	0.9676486	Turdidae	0.9404248	THSH	0.91452754	herthr	0.999995	herthr	0.999995	Y	2022-09-27	02:05.0
3437.8	3439.4	0	11025	Passeriformes	0.9721993	Turdidae	0.9595269	THSH	0.946829	herthr	0.99999833	herthr	0.9999983	Y	2022-09-27	02:20.8
3454	3455.4	0	11025	Passeriformes	0.9709655	Turdidae	0.94299805	THSH	0.89011997	herthr	0.99999607	herthr	0.9999961	Y	2022-09-27	02:37.0
3487.6	3489.2	0	11025	Passeriformes	0.9720632	Turdidae	0.9588699	THSH	0.94569993	herthr	0.9999988	herthr	0.9999988	Y	2022-09-27	03:10.6
3498.2	3500	0	11025	Passeriformes	0.9722368	Turdidae	0.95969737	THSH	0.94706184	herthr	0.9999989	herthr	0.9999989	Y	2022-09-27	03:21.2
3514.4	3515.8	0	11025	Passeriformes	0.97217405	Turdidae	0.9591191	THSH	0.9465755	herthr	0.9999989	herthr	0.9999989	Y	2022-09-27	03:37.4
3516.4	3518	0	11025	Passeriformes	0.9717961	Turdidae	0.95600766	THSH	0.940328	herthr	0.99999714	herthr	0.9999971	Y	2022-09-27	03:39.4

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2023-05-02	150	12000	amerob	American Robin	0.3052	Y
2	Spectrogram 1	2023-05-02	150	12000	amerob	American Robin	0.3384	Y
1	Spectrogram 1	2023-05-03	150	12000	amerob	American Robin	0.3905	Y
2	Spectrogram 1	2023-05-03	150	12000	amerob	American Robin	0.4513	Y
3	Spectrogram 1	2023-05-03	150	12000	amerob	American Robin	0.6683	Y
4	Spectrogram 1	2023-05-03	150	12000	amerob	American Robin	0.579	Y
5	Spectrogram 1	2023-05-03	150	12000	amerob	American Robin	0.482	Y
7	Spectrogram 1	2023-05-04	150	12000	amerob	American Robin	0.6519	Y
117	Spectrogram 1	2023-05-04	150	12000	amerob	American Robin	0.4106	Y
116	Spectrogram 1	2023-05-04	150	12000	cangoo	Canada Goose	0.5877	Y
1	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.3052	Y
2	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.6826	Y
3	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.3622	Y
4	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.8683	Y
5	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.7126	Y
6	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.341	Y
7	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.855	Y
8	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.7039	Y
9	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.3119	Y
10	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.5768	Y
11	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.4096	Y
12	Spectrogram 1	2023-05-06	150	12000	amerob	American Robin	0.6769	Y
1	Spectrogram 1	2023-05-09	150	12000	amerob	American Robin	0.8981	Y
1	Spectrogram 1	2023-05-15	150	12000	amerob	American Robin	0.5164	Y
77	Spectrogram 1	2023-05-17	150	12000	amerob	American Robin	0.7714	Y
78	Spectrogram 1	2023-05-17	150	12000	amerob	American Robin	0.306	Y
14	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.406	Y
15	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.6967	Y
16	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.6029	Y
17	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.3958	Y
18	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.8422	Y
19	Spectrogram 1	2023-05-17	150	12000	comnig	Common Nighthawk	0.8395	Y
113	Spectrogram 1	2023-05-18	150	12000	pinwar	Pine Warbler	0.477	Y
1	Spectrogram 1	2023-05-19	150	12000	amerob	American Robin	0.3194	Y
3	Spectrogram 1	2023-05-19	150	12000	amerob	American Robin	0.3071	Y
3	Spectrogram 1	2023-05-21	150	12000	pinwar	Pine Warbler	0.481	Y
1	Spectrogram 1	2023-05-23	150	12000	amerob	American Robin	0.5961	Y
2	Spectrogram 1	2023-05-23	150	12000	amerob	American Robin	0.8078	Y
47	Spectrogram 1	2023-05-26	150	12000	sposan	Spotted Sandpiper	0.6277	Y
48	Spectrogram 1	2023-05-26	150	12000	sposan	Spotted Sandpiper	0.9977	Y

Table 41: 2023 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2023-05-27	150	12000	babwar	Bay-breasted Warbler	0.7815	Y
51	Spectrogram 1	2023-05-28	150	12000	bkpwar	Blackpoll Warbler	0.406	Y
52	Spectrogram 1	2023-05-28	150	12000	bkpwar	Blackpoll Warbler	0.3802	Y
58	Spectrogram 1	2023-05-28	150	12000	bkpwar	Blackpoll Warbler	0.3412	Y
59	Spectrogram 1	2023-05-28	150	12000	bkpwar	Blackpoll Warbler	0.3773	Y
1	Spectrogram 1	2023-06-17	150	12000	grbher3	Great Blue Heron	0.4282	Y
2	Spectrogram 1	2023-06-17	150	12000	grbher3	Great Blue Heron	0.4708	Y
2	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.3797	Y
3	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.5499	Y
4	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.3425	Y
5	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.8543	Y
6	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.6095	Y
7	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.6771	Y
8	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.6001	Y
10	Spectrogram 1	2023-06-19	150	12000	amerob	American Robin	0.4457	Y
180	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.3876	Y
181	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.4005	Y
182	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.3649	Y
183	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.3175	Y
184	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.6036	Y
185	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.5361	Y
187	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.487	Y
188	Spectrogram 1	2023-06-23	150	12000	amerob	American Robin	0.3454	Y
1	Spectrogram 1	2023-06-26	150	12000	amerob	American Robin	0.5374	Y
2	Spectrogram 1	2023-06-26	150	12000	amerob	American Robin	0.3436	Y
66	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.5629	Y
67	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.5705	Y
68	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.6195	Y
69	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.3627	Y
71	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.3021	Y
76	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.7404	Y
77	Spectrogram 1	2023-07-01	150	12000	purfin	Purple Finch	0.3348	Y
1	Spectrogram 1	2023-07-04	150	12000	sposan	Spotted Sandpiper	0.714	Y
16	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.5969	Y
17	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.3214	Y
18	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.8832	Y
19	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.9846	Y
20	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.6955	Y
21	Spectrogram 1	2023-07-04	150	12000	comnig	Common Nighthawk	0.9847	Y
1	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.8581	Y

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
2	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.7078	Y
3	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.6138	Y
4	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.8918	Y
5	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.9522	Y
6	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.7113	Y
7	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.4667	Y
8	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.7399	Y
9	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.5966	Y
10	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.9727	Y
11	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.8862	Y
12	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.8986	Y
13	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.938	Y
14	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.8834	Y
15	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.5489	Y
16	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.6257	Y
17	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.7219	Y
18	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.7285	Y
19	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.4394	Y
20	Spectrogram 1	2023-07-05	150	12000	comnig	Common Nighthawk	0.833	Y
1	Spectrogram 1	2023-07-05	150	12000	sposan	Spotted Sandpiper	0.4276	Y
1	Spectrogram 1	2023-07-06	150	12000	bkbcuc	Black-billed Cuckoo	0.4027	Y
5	Spectrogram 1	2023-07-07	150	12000	leasan	Least Sandpiper	0.4314	Y
5	Spectrogram 1	2023-07-07	150	12000	amerob	American Robin	0.4127	Y
1	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9971	Y
2	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9946	Y
3	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9972	Y
4	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9983	Y
5	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.989	Y
6	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9982	Y
7	Spectrogram 1	2023-07-08	150	12000	comnig	Common Nighthawk	0.9945	Y
39	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.6018	Y
40	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.3804	Y
41	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.3404	Y
42	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.3086	Y
43	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.409	Y
44	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.3026	Y
46	Spectrogram 1	2023-07-08	150	12000	purfin	Purple Finch	0.4036	Y
2	Spectrogram 1	2023-07-11	150	12000	amerob	American Robin	0.4279	Y
3	Spectrogram 1	2023-07-11	150	12000	amerob	American Robin	0.3652	Y
4	Spectrogram 1	2023-07-11	150	12000	amerob	American Robin	0.6357	Y

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
6	Spectrogram 1	2023-07-11	150	12000	amerob	American Robin	0.4712	Y
2	Spectrogram 1	2023-07-12	150	12000	amerob	American Robin	0.3295	Y
4	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.3398	Y
5	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5006	Y
6	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.3933	Y
7	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.4308	Y
8	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.3512	Y
9	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.3513	Y
11	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5904	Y
13	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.528	Y
14	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.3405	Y
15	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.4145	Y
16	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5376	Y
17	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.466	Y
18	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.7393	Y
19	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5261	Y
20	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5708	Y
21	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.403	Y
22	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.4059	Y
24	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.599	Y
26	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.7106	Y
28	Spectrogram 1	2023-07-13	150	12000	purfin	Purple Finch	0.5691	Y
18	Spectrogram 1	2023-07-14	150	12000	purfin	Purple Finch	0.5076	Y
2	Spectrogram 1	2023-07-15	150	12000	amerob	American Robin	0.3346	Y
43	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.3181	Y
47	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.4259	Y
51	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.4109	Y
56	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.6262	Y
59	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.363	Y
63	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.826	Y
75	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.3728	Y
76	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.6725	Y
77	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.6182	Y
94	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.4661	Y
95	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.7398	Y
104	Spectrogram 1	2023-07-17	150	12000	purfin	Purple Finch	0.4458	Y
1	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.3282	Y
4	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.5647	Y
6	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.3767	Y
8	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.5812	Y

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
10	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.4329	Y
12	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.6971	Y
14	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.3736	Y
16	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.3694	Y
18	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.7361	Y
20	Spectrogram 1	2023-07-19	150	12000	amerob	American Robin	0.353	Y
1	Spectrogram 1	2023-07-20	150	12000	amerob	American Robin	0.4934	Y
3	Spectrogram 1	2023-07-21	150	12000	amerob	American Robin	0.5821	Y
129	Spectrogram 1	2023-07-21	150	12000	purfin	Purple Finch	0.4034	Y
1	Spectrogram 1	2023-07-23	150	12000	solsan	Solitary Sandpiper	0.7862	Y
1	Spectrogram 1	2023-07-23	150	12000	sposan	Spotted Sandpiper	0.8018	Y
1	Spectrogram 1	2023-07-24	150	12000	solsan	Solitary Sandpiper	0.905	Y
2	Spectrogram 1	2023-07-24	150	12000	leasan	Least Sandpiper	0.3609	Y
1	Spectrogram 1	2023-07-24	150	12000	solsan	Solitary Sandpiper	0.4189	Y
198	Spectrogram 1	2023-07-24	150	12000	gryjay	Canada Jay	0.838	Y
199	Spectrogram 1	2023-07-24	150	12000	gryjay	Canada Jay	0.5535	Y
200	Spectrogram 1	2023-07-24	150	12000	gryjay	Canada Jay	0.9698	Y
201	Spectrogram 1	2023-07-24	150	12000	gryjay	Canada Jay	0.948	Y
202	Spectrogram 1	2023-07-24	150	12000	gryjay	Canada Jay	0.9986	Y
7	Spectrogram 1	2023-07-25	150	12000	comnig	Common Nighthawk	0.9772	Y
3	Spectrogram 1	2023-07-27	150	12000	amerob	American Robin	0.4038	Y
4	Spectrogram 1	2023-07-27	150	12000	amerob	American Robin	0.3815	Y
7	Spectrogram 1	2023-07-28	150	12000	amerob	American Robin	0.4166	Y
8	Spectrogram 1	2023-07-28	150	12000	amerob	American Robin	0.3197	Y
9	Spectrogram 1	2023-07-28	150	12000	amerob	American Robin	0.3119	Y
1	Spectrogram 1	2023-08-16	150	12000	bkb cuc	Black-billed Cuckoo	0.6608	Y
1	Spectrogram 1	2023-08-22	150	12000	comnig	Common Nighthawk	0.8882	Y
2	Spectrogram 1	2023-08-22	150	12000	comnig	Common Nighthawk	0.9616	Y
2	Spectrogram 1	2023-08-23	150	12000	solsan	Solitary Sandpiper	0.3266	Y
1	Spectrogram 1	2023-08-23	150	12000	amerob	American Robin	0.5016	Y
6	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3019	Y
7	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3041	Y
1	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3325	Y
4	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3576	Y
3	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3605	Y
5	Spectrogram 1	2023-08-25	150	12000	amerob	American Robin	0.3872	Y
1	Spectrogram 1	2023-08-25	150	12000	wls war	Wilson's Warbler	0.5259	Y
1	Spectrogram 1	2023-09-11	150	12000	amerob	American Robin	0.3746	Y
2	Spectrogram 1	2023-09-11	150	12000	amerob	American Robin	0.4288	Y
1	Spectrogram 1	2023-09-15	150	12000	greyel	Greater Yellowlegs	0.4224	Y



Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
2	Spectrogram 1	2023-09-15	150	12000	greyel	Greater Yellowlegs	0.5621	Y
1	Spectrogram 1	2023-09-15	150	12000	gycthr	Gray-cheeked Thrush	0.6076	Y
2	Spectrogram 1	2023-09-15	150	12000	gycthr	Gray-cheeked Thrush	0.7514	Y
1	Spectrogram 1	2023-09-18	150	12000	solsan	Solitary Sandpiper	0.7131	Y
1	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.3074	Y
2	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.5764	Y
3	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.9642	Y
4	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.3459	Y
5	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.5673	Y
6	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.8693	Y
7	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.9493	Y
8	Spectrogram 1	2023-09-21	150	12000	gryjay	Canada Jay	0.9611	Y
2	Spectrogram 1	2023-09-22	150	12000	amerob	American Robin	0.305	Y
5	Spectrogram 1	2023-09-22	150	12000	pilwoo	Pileated Woodpecker	0.8551	Y
6	Spectrogram 1	2023-09-22	150	12000	pilwoo	Pileated Woodpecker	0.3143	Y
1	Spectrogram 1	2023-09-24	150	12000	solsan	Solitary Sandpiper	0.6804	Y
1	Spectrogram 1	2023-09-24	150	12000	amerob	American Robin	0.3058	Y
2	Spectrogram 1	2023-09-24	150	12000	pilwoo	Pileated Woodpecker	0.5386	Y
1	Spectrogram 1	2023-09-25	150	12000	gycthr	Gray-cheeked Thrush	0.4191	Y
1	Spectrogram 1	2023-09-26	150	12000	bkhgul	Black-headed Gull	0.3366	Y
1	Spectrogram 1	2023-09-26	150	12000	amerob	American Robin	0.3997	Y
5	Spectrogram 1	2023-09-26	150	12000	amerob	American Robin	0.3757	Y
6	Spectrogram 1	2023-09-26	150	12000	amerob	American Robin	0.3221	Y
9	Spectrogram 1	2023-09-26	150	12000	pilwoo	Pileated Woodpecker	0.7991	Y
1	Spectrogram 1	2023-09-28	150	12000	amerob	American Robin	0.5075	Y
3	Spectrogram 1	2023-09-28	150	12000	amerob	American Robin	0.4187	Y
7	Spectrogram 1	2023-09-28	150	12000	amerob	American Robin	0.3687	Y
10	Spectrogram 1	2023-09-28	150	12000	amerob	American Robin	0.3383	Y
1	Spectrogram 1	2023-09-28	150	12000	cangoo	Canada Goose	0.5392	Y
2	Spectrogram 1	2023-09-28	150	12000	cangoo	Canada Goose	0.7236	Y
3	Spectrogram 1	2023-09-28	150	12000	cangoo	Canada Goose	0.3589	Y
1	Spectrogram 1	2023-09-29	150	12000	cangoo	Canada Goose	0.7847	Y
2	Spectrogram 1	2023-09-29	150	12000	amerob	American Robin	0.3634	Y
3	Spectrogram 1	2023-09-29	150	12000	amerob	American Robin	0.3831	Y
1	Spectrogram 1	2023-09-30	150	12000	amerob	American Robin	0.3088	Y
2	Spectrogram 1	2023-09-30	150	12000	cangoo	Canada Goose	0.3891	Y
3	Spectrogram 1	2023-09-30	150	12000	cangoo	Canada Goose	0.4239	Y
1	Spectrogram 1	2023-10-01	150	12000	pilwoo	Pileated Woodpecker	0.3944	Y
1	Spectrogram 1	2023-10-01	150	12000	robgro	Rose-breasted Grosbeak	0.8546	Y
2	Spectrogram 1	2023-10-01	150	12000	robgro	Rose-breasted Grosbeak	0.3905	Y

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
3	Spectrogram 1	2023-10-01	150	12000	robgro	Rose-breasted Grosbeak	0.6404	Y
1	Spectrogram 1	2023-10-02	150	12000	pilwoo	Pileated Woodpecker	0.4242	Y
2	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3102	Y
3	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.7134	Y
4	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3118	Y
5	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5783	Y
6	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.8913	Y
7	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.644	Y
8	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.8329	Y
9	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5372	Y
10	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.6294	Y
11	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3837	Y
12	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4925	Y
13	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.355	Y
14	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4669	Y
15	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.6235	Y
16	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3315	Y
17	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3429	Y
18	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5437	Y
19	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.6585	Y
20	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.333	Y
21	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3197	Y
22	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.7275	Y
23	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5093	Y
24	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3786	Y
25	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3373	Y
26	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4266	Y
27	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5959	Y
28	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3043	Y
29	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3664	Y
30	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4966	Y
31	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3316	Y
32	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3235	Y
33	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5771	Y
34	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5102	Y
35	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3569	Y
36	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3506	Y
37	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4275	Y
38	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3295	Y
39	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3675	Y

Table 41: 2023 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
40	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3925	Y
41	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4892	Y
42	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5071	Y
43	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.6001	Y
44	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3302	Y
45	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5986	Y
46	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4918	Y
47	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.3464	Y
48	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.6182	Y
49	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.4535	Y
1	Spectrogram 1	2023-10-02	150	12000	cangoo	Canada Goose	0.5998	Y
1	Spectrogram 1	2023-10-03	150	12000	redcro	Red Crossbill	0.469	Y
1	Spectrogram 1	2023-10-04	150	12000	pilwoo	Pileated Woodpecker	0.9504	Y
2	Spectrogram 1	2023-10-04	150	12000	purfin	Purple Finch	0.3766	Y
3	Spectrogram 1	2023-10-04	150	12000	purfin	Purple Finch	0.3365	Y
4	Spectrogram 1	2023-10-04	150	12000	purfin	Purple Finch	0.7761	Y
5	Spectrogram 1	2023-10-04	0	150	purfin	Purple Finch	0.7273	Y
7	Spectrogram 1	2023-10-04	150	12000	purfin	Purple Finch	0.3456	Y
9	Spectrogram 1	2023-10-04	150	12000	pilwoo	Pileated Woodpecker	0.7287	Y
10	Spectrogram 1	2023-10-04	150	12000	pilwoo	Pileated Woodpecker	0.9226	Y
11	Spectrogram 1	2023-10-04	150	12000	pilwoo	Pileated Woodpecker	0.993	Y
12	Spectrogram 1	2023-10-04	150	12000	pilwoo	Pileated Woodpecker	0.9723	Y
1	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.9452	Y
3	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.9935	Y
5	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.9011	Y
7	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.7535	Y
8	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.798	Y
9	Spectrogram 1	2023-10-06	150	12000	cangoo	Canada Goose	0.8427	Y
2	Spectrogram 1	2023-10-07	150	12000	pinsis	Pine Siskin	0.736	Y
3	Spectrogram 1	2023-10-07	150	12000	pinsis	Pine Siskin	0.7362	Y
4	Spectrogram 1	2023-10-07	150	12000	pinsis	Pine Siskin	0.8895	Y
5	Spectrogram 1	2023-10-07	150	12000	pinsis	Pine Siskin	0.4051	Y
1	Spectrogram 1	2023-10-07	150	12000	cangoo	Canada Goose	0.4807	Y
3	Spectrogram 1	2023-10-07	150	12000	cangoo	Canada Goose	0.3539	Y
5	Spectrogram 1	2023-10-07	150	12000	cangoo	Canada Goose	0.3301	Y
41	Spectrogram 1	2023-10-07	150	12000	wilsni1	Wilson's Snipe	0.5056	Y
2	Spectrogram 1	2023-10-09	150	12000	solsan	Solitary Sandpiper	0.6546	Y
1	Spectrogram 1	2023-10-09	150	12000	gycthr	Gray-cheeked Thrush	0.9721	Y
3	Spectrogram 1	2023-10-09	150	12000	gycthr	Gray-cheeked Thrush	0.9534	Y
4	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.4495	Y

Table 41: 2023 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
5	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.658	Y
6	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.734	Y
7	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.5927	Y
8	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.4988	Y
9	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.9499	Y
10	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.9742	Y
11	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.5824	Y
12	Spectrogram 1	2023-10-09	150	12000	gryjay	Canada Jay	0.4374	Y
13	Spectrogram 1	2023-10-09	150	12000	pilwoo	Pileated Woodpecker	0.3301	Y
14	Spectrogram 1	2023-10-09	150	12000	pilwoo	Pileated Woodpecker	0.3144	Y
1	Spectrogram 1	2023-10-10	150	12000	gryjay	Canada Jay	0.7941	Y
2	Spectrogram 1	2023-10-10	150	12000	gryjay	Canada Jay	0.9262	Y
3	Spectrogram 1	2023-10-10	150	12000	gryjay	Canada Jay	0.5563	Y
4	Spectrogram 1	2023-10-10	150	12000	gryjay	Canada Jay	0.7456	Y
1	Spectrogram 1	2023-10-10	150	12000	gycthr	Gray-cheeked Thrush	0.6392	Y
1	Spectrogram 1	2023-10-11	150	12000	pinsis	Pine Siskin	0.7003	Y
2	Spectrogram 1	2023-10-11	150	12000	pinsis	Pine Siskin	0.3816	Y
3	Spectrogram 1	2023-10-11	150	12000	pinsis	Pine Siskin	0.4139	Y
4	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.4497	Y
5	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.3901	Y
6	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.559	Y
7	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.8827	Y
8	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.7896	Y
9	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.8317	Y
10	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.4336	Y
11	Spectrogram 1	2023-10-11	150	12000	gryjay	Canada Jay	0.5894	Y
4	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.7917	Y
1	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.3071	Y
2	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.3337	Y
12	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.3833	Y
5	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.4171	Y
6	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.5171	Y
7	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.5557	Y
9	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.6095	Y
10	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.7942	Y
8	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.8653	Y
11	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.8713	Y
3	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.886	Y
4	Spectrogram 1	2023-10-12	150	12000	gryjay	Canada Jay	0.9834	Y
1	Spectrogram 1	2023-10-13	150	12000	whcspa	White-crowned Sparrow	0.6601	Y

Table 41: 2023 BirdNET Acoustic Output

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2023-10-14	150	12000	wilsni1	Wilson's Snipe	0.5461	Y
1	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.5389	Y
2	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.5913	Y
3	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.5383	Y
4	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.307	Y
5	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.4654	Y
1	Spectrogram 1	2023-10-17	150	12000	grbher3	Great Blue Heron	0.5337	Y
1	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.3381	Y
2	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.6634	Y
3	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.8672	Y
4	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.5571	Y
5	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.7266	Y
6	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.8783	Y
7	Spectrogram 1	2023-10-18	150	12000	pinsis	Pine Siskin	0.7233	Y
3	Spectrogram 1	2023-10-19	150	12000	gryjay	Canada Jay	0.9559	Y
1	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.5804	Y
3	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.5037	Y
4	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.6963	Y
5	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.7842	Y
6	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.5917	Y
7	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.3586	Y
9	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.7626	Y
10	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.3295	Y
11	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.4166	Y
12	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.7623	Y
13	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.3791	Y
14	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.4809	Y
15	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.5922	Y
16	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.3982	Y
17	Spectrogram 1	2023-10-20	150	12000	pinsis	Pine Siskin	0.3618	Y
18	Spectrogram 1	2023-10-20	150	12000	gryjay	Canada Jay	0.4344	Y
20	Spectrogram 1	2023-10-20	150	12000	purfin	Purple Finch	0.5508	Y
21	Spectrogram 1	2023-10-20	150	12000	purfin	Purple Finch	0.3413	Y
1	Spectrogram 1	2023-10-24	150	12000	pilwoo	Pileated Woodpecker	0.9882	Y
2	Spectrogram 1	2023-10-24	150	12000	pilwoo	Pileated Woodpecker	0.9319	Y
1	Spectrogram 1	2023-10-25	150	12000	pinsis	Pine Siskin	0.7614	Y
3	Spectrogram 1	2023-10-25	150	12000	pinsis	Pine Siskin	0.3243	Y
1	Spectrogram 1	2023-10-26	150	12000	pilwoo	Pileated Woodpecker	0.4765	Y
2	Spectrogram 1	2023-10-26	150	12000	pingro	Pine Grosbeak	0.6748	Y
3	Spectrogram 1	2023-10-26	150	12000	comnig	Common Nighthawk	0.3615	Y

Table 41: 2023 BirdNET Acoustic Output

Project # 24-9856

Selection	View	Month	Low Freq (Hz)	High Freq (Hz)	Species Code	Common Name	Confidence	Annotation
1	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.4463	Y
2	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.5122	Y
3	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.9832	Y
4	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.891	Y
5	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.4693	Y
6	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.5188	Y
7	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.9387	Y
8	Spectrogram 1	2023-10-27	150	12000	gryjay	Canada Jay	0.301	Y
1	Spectrogram 1	2023-10-29	150	12000	pinsis	Pine Siskin	0.7918	Y
1	Spectrogram 1	2023-11-02	150	12000	greyel	Greater Yellowlegs	0.5986	Y
1	Spectrogram 1	2023-11-04	150	12000	pinsis	Pine Siskin	0.6792	Y
2	Spectrogram 1	2023-11-04	150	12000	pinsis	Pine Siskin	0.8368	Y
1	Spectrogram 1	2023-11-06	150	12000	pilwoo	Pileated Woodpecker	0.3375	Y
2	Spectrogram 2	2023-11-06	150	12000	pilwoo	Pileated Woodpecker	0.8199	Y
3	Spectrogram 3	2023-11-06	150	12000	redcro	Red Crossbill	0.5147	Y



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
474	475.6	0	11025	Passeriformes	0.97212774	Turdidae	0.9575631			amerob	0.99999964	amerob	0.9999996	Y	2023-04-03
2272.6	2274.4	0	11025	Passeriformes	0.9665663	Passerellidae	0.99410987			daejun	0.9962113	daejun	0.9962113	Y	2023-04-04
2804	2805.4	0	11025	Passeriformes	0.940273	Passerellidae	0.9848337			daejun	0.99253863	daejun	0.9925386	Y	2023-04-04
3247.4	3248.8	0	11025	Passeriformes	0.9683903	Passerellidae	0.9950552			daejun	0.9965485	daejun	0.9965485	Y	2023-04-04
3265.4	3266.8	0	11025	Passeriformes	0.9629456	Passerellidae	0.99453676			daejun	0.99646556	daejun	0.9964656	Y	2023-04-04
3269.4	3271	0	11025	Passeriformes	0.9676638	Passerellidae	0.9950393			daejun	0.9967219	daejun	0.9967219	Y	2023-04-04
3567.4	3569.4	0	11025	Passeriformes	0.97220784	Passerellidae	0.9955817			daejun	0.99700767	daejun	0.9970077	Y	2023-04-04
37.2	38.4	0	11025	Passeriformes	0.9420965	Passerellidae	0.9928249			daejun	0.99379694	daejun	0.9937969	Y	2023-04-04
81	82.8	0	11025	Passeriformes	0.97017056	Passerellidae	0.9950889			daejun	0.99659485	daejun	0.9965948	Y	2023-04-04
2334.8	2336	0	11025	Passeriformes	0.9707644	Turdidae	0.88645136			amerob	0.9916849	amerob	0.9916849	Y	2023-04-12
459.6	461.2	0	11025	Passeriformes	0.96862566	Turdidae	0.94944847	THSH	0.9332528	herthr	0.9999987	herthr	0.9999987	Y	2023-04-12
88.6	90.2	0	11025	Passeriformes	0.97177696	Passerellidae	0.99547344			daejun	0.99697685	daejun	0.9969769	Y	2023-04-17
147.2	148.6	0	11025	Passeriformes	0.965929	Passerellidae	0.99455774			daejun	0.99422014	daejun	0.9942201	Y	2023-04-17
169.2	171	0	11025	Passeriformes	0.9689078	Passerellidae	0.9949439			daejun	0.99687815	daejun	0.9968781	Y	2023-04-17
208.4	210.2	0	11025	Passeriformes	0.9720705	Passerellidae	0.99554163			daejun	0.9969907	daejun	0.9969907	Y	2023-04-17
218	220	0	11025	Passeriformes	0.97205013	Passerellidae	0.99554884			daejun	0.9969807	daejun	0.9969807	Y	2023-04-17
242.6	243.8	0	11025	Passeriformes	0.9692814	Passerellidae	0.99517906			daejun	0.99676645	daejun	0.9967664	Y	2023-04-17
402.8	404.4	0	11025	Passeriformes	0.970213	Passerellidae	0.9948367			daejun	0.99671173	daejun	0.9967117	Y	2023-04-17
459.2	461	0	11025	Passeriformes	0.9447598	Passerellidae	0.9857291			daejun	0.98627275	daejun	0.9862728	Y	2023-04-17
466.6	468	0	11025	Passeriformes	0.97223175	Passerellidae	0.99555874			daejun	0.99699783	daejun	0.9969978	Y	2023-04-17
471.8	473.4	0	11025	Passeriformes	0.97212225	Passerellidae	0.99554235			daejun	0.9969702	daejun	0.9969702	Y	2023-04-17
504.4	506	0	11025	Passeriformes	0.97198135	Passerellidae	0.99538547			daejun	0.99693704	daejun	0.996937	Y	2023-04-17
621.8	623.2	0	11025	Passeriformes	0.9675963	Passerellidae	0.99466985			daejun	0.99638957	daejun	0.9963896	Y	2023-04-17
815.2	816.8	0	11025	Passeriformes	0.96504474	Passerellidae	0.9941954			daejun	0.9956358	daejun	0.9956358	Y	2023-04-17
837.4	839	0	11025	Passeriformes	0.9720019	Passerellidae	0.9955649			daejun	0.9970009	daejun	0.9970009	Y	2023-04-17
844.2	846.8	0	11025	Passeriformes	0.9599706	Passerellidae	0.993836			daejun	0.99624443	daejun	0.9962444	Y	2023-04-17
853.8	855.6	0	11025	Passeriformes	0.97163	Passerellidae	0.9954867			daejun	0.996958	daejun	0.996958	Y	2023-04-17
861.8	863.4	0	11025	Passeriformes	0.97162175	Passerellidae	0.99546814			daejun	0.9969459	daejun	0.9969459	Y	2023-04-17
864.6	867.8	0	11025	Passeriformes	0.97201365	Passerellidae	0.99546754			daejun	0.99694985	daejun	0.9969499	Y	2023-04-17
871.2	873	0	11025	Passeriformes	0.9720508	Passerellidae	0.99552286			daejun	0.99695635	daejun	0.9969563	Y	2023-04-17
876	881	0	11025	Passeriformes	0.97220606	Passerellidae	0.9955819			daejun	0.9970095	daejun	0.9970095	Y	2023-04-17
882	883.8	0	11025	Passeriformes	0.9670979	Passerellidae	0.9944376			daejun	0.9965843	daejun	0.9965843	Y	2023-04-17
884	887.6	0	11025	Passeriformes	0.972204	Passerellidae	0.9955831			daejun	0.99700874	daejun	0.9970087	Y	2023-04-17
889.6	892	0	11025	Passeriformes	0.9722125	Passerellidae	0.99558336			daejun	0.9970094	daejun	0.9970094	Y	2023-04-17
893.4	896.6	0	11025	Passeriformes	0.9722145	Passerellidae	0.99558157			daejun	0.99700767	daejun	0.9970077	Y	2023-04-17
897	902	0	11025	Passeriformes	0.97215277	Passerellidae	0.9955727			daejun	0.9970024	daejun	0.9970024	Y	2023-04-17
902	907	0	11025	Passeriformes	0.97215277	Passerellidae	0.9955727			daejun	0.9970024	daejun	0.9970024	Y	2023-04-17
907.6	912.6	0	11025	Passeriformes	0.97223693	Passerellidae	0.99559057			daejun	0.9970118	daejun	0.9970118	Y	2023-04-17
912.6	917.6	0	11025	Passeriformes	0.97223693	Passerellidae	0.99559057			daejun	0.9970118	daejun	0.9970118	Y	2023-04-17
917.6	918.8	0	11025	Passeriformes	0.97223693	Passerellidae	0.99559057			daejun	0.9970118	daejun	0.9970118	Y	2023-04-17
919	924	0	11025	Passeriformes	0.9722378	Passerellidae	0.99559206			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
924	929	0	11025	Passeriformes	0.9722378	Passerellidae	0.99559206			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
929	934	0	11025	Passeriformes	0.9722378	Passerellidae	0.99559206			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
934	935.8	0	11025	Passeriformes	0.9722378	Passerellidae	0.99559206			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
944	945.6	0	11025	Passeriformes	0.9493463	Passerellidae	0.99203694			daejun	0.99557626	daejun	0.9955763	Y	2023-04-17
947.4	950.2	0	11025	Passeriformes	0.9706226	Passerellidae	0.9951184			daejun	0.99682224	daejun	0.9968222	Y	2023-04-17
951.4	955.4	0	11025	Passeriformes	0.972212	Passerellidae	0.9955751			daejun	0.9969893	daejun	0.9969893	Y	2023-04-17
958.2	960.2	0	11025	Passeriformes	0.9680864	Passerellidae	0.9946837			daejun	0.99642986	daejun	0.9964299	Y	2023-04-17
966.8	971.8	0	11025	Passeriformes	0.9722276	Passerellidae	0.9955894			daejun	0.99701035	daejun	0.9970104	Y	2023-04-17
971.8	976	0	11025	Passeriformes	0.9722276	Passerellidae	0.9955894			daejun	0.99701035	daejun	0.9970104	Y	2023-04-17
976.2	981.2	0	11025	Passeriformes	0.9722235	Passerellidae	0.9955884			daejun	0.9970107	daejun	0.9970107	Y	2023-04-17
981.2	986.2	0	11025	Passeriformes	0.9722235	Passerellidae	0.9955884			daejun	0.9970107	daejun	0.9970107	Y	2023-04-17
986.2	991.2	0	11025	Passeriformes	0.9722235	Passerellidae	0.9955884			daejun	0.9970107	daejun	0.9970107	Y	2023-04-17
991.2	993.2	0	11025	Passeriformes	0.9722235	Passerellidae	0.9955884			daejun	0.9970107	daejun	0.9970107	Y	2023-04-17
995.4	1000.4	0	11025	Passeriformes	0.9722376	Passerellidae	0.9955922			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
1000.4	1001.8	0	11025	Passeriformes	0.9722376	Passerellidae	0.9955922			daejun	0.9970125	daejun	0.9970125	Y	2023-04-17
1002.2	1004.8	0	11025	Passeriformes	0.97163606	Passerellidae	0.99544984			daejun	0.9969536	daejun	0.9969536	Y	2023-04-17

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1005	1010	0	11025	Passeriformes	0.97221065	Passerellidae	0.99558145			daejun	0.9970067	daejun	0.9970067	Y	2023-04-17
1010	1012.4	0	11025	Passeriformes	0.97221065	Passerellidae	0.99558145			daejun	0.9970067	daejun	0.9970067	Y	2023-04-17
1012.6	1016	0	11025	Passeriformes	0.9716412	Passerellidae	0.9954405			daejun	0.9968851	daejun	0.9968851	Y	2023-04-17
1016.4	1019.6	0	11025	Passeriformes	0.97218287	Passerellidae	0.99557626			daejun	0.9970084	daejun	0.9970084	Y	2023-04-17
1222	1223.4	0	11025	Passeriformes	0.9717775	Passerellidae	0.9954266			daejun	0.9969156	daejun	0.9969156	Y	2023-04-17
1462.8	1464.6	0	11025	Passeriformes	0.971405	Passerellidae	0.9954602			daejun	0.9969201	daejun	0.9969201	Y	2023-04-17
1471.6	1474	0	11025	Passeriformes	0.97208214	Passerellidae	0.9955603			daejun	0.9969894	daejun	0.9969894	Y	2023-04-17
1474.2	1475.6	0	11025	Passeriformes	0.95080024	Passerellidae	0.98789984			daejun	0.9939733	daejun	0.9939733	Y	2023-04-17
1476.2	1477.8	0	11025	Passeriformes	0.9637429	Passerellidae	0.99366564			daejun	0.9946544	daejun	0.9946544	Y	2023-04-17
1501.8	1503.6	0	11025	Passeriformes	0.9649869	Passerellidae	0.9944325			daejun	0.9961682	daejun	0.9961682	Y	2023-04-17
1508.2	1509.6	0	11025	Passeriformes	0.97084594	Passerellidae	0.99535036			daejun	0.9968188	daejun	0.9968188	Y	2023-04-17
797.8	799	0	11025	Passeriformes	0.9642332	Turdidae	0.9506723	THSH	0.93265045	herthr	0.9999963	herthr	0.9999963	Y	2023-04-24
2822.8	2824.4	0	11025	Passeriformes	0.9642277	Turdidae	0.9472196	THSH	0.9285501	herthr	0.99999607	herthr	0.9999961	Y	2023-04-24
299.4	301.2	0	11025	Passeriformes	0.9722139	Passerellidae	0.99554837	SFHS	0.99011314	whtspa	0.99854076	whtspa	0.9985408	Y	2023-04-27
1941.6	1943.2	0	11025	Passeriformes	0.9281489	Passerellidae	0.9819213	SFHS	0.9768718	whtspa	0.9907746	whtspa	0.9907746	Y	2023-04-27
493	494.2	0	11025	Passeriformes	0.9654537	Turdidae	0.94897425	THSH	0.9294471	herthr	0.9999918	herthr	0.9999918	Y	2023-04-29
518.6	520	0	11025	Passeriformes	0.97022384	Turdidae	0.95582134	THSH	0.9419707	herthr	0.99999845	herthr	0.9999985	Y	2023-04-29
547.4	548.8	0	11025	Passeriformes	0.9630925	Turdidae	0.9461367	THSH	0.92448664	herthr	0.9999981	herthr	0.9999981	Y	2023-04-29
554.2	555.6	0	11025	Passeriformes	0.9712228	Turdidae	0.95795	THSH	0.94505256	herthr	0.9999982	herthr	0.9999982	Y	2023-04-29
128	129.2	0	11025	Passeriformes	0.92108524	Turdidae	0.9304653	THSH	0.8953099	herthr	0.9999976	herthr	0.9999976	Y	2023-04-30
2149.6	2151	0	11025	Passeriformes	0.96213603	Turdidae	0.9488198	THSH	0.93340546	herthr	0.9999988	herthr	0.9999988	Y	2023-05-01
990.8	992.4	0	11025	Passeriformes	0.972007	Turdidae	0.9595127	THSH	0.94679666	herthr	0.9999989	herthr	0.9999989	Y	2023-05-03
1009.6	1011.2	0	11025	Passeriformes	0.9707671	Turdidae	0.95792025	THSH	0.94447535	herthr	0.99999726	herthr	0.9999973	Y	2023-05-03
1026	1027.4	0	11025	Passeriformes	0.9714968	Turdidae	0.9584399	THSH	0.9452856	herthr	0.9999987	herthr	0.9999987	Y	2023-05-03
1046.6	1048	0	11025	Passeriformes	0.971493	Turdidae	0.95873487	THSH	0.945852	herthr	0.9999988	herthr	0.9999988	Y	2023-05-03
1049.4	1050.8	0	11025	Passeriformes	0.9720996	Turdidae	0.95954895	THSH	0.94689906	herthr	0.9999989	herthr	0.9999989	Y	2023-05-03
1052.6	1054.2	0	11025	Passeriformes	0.9721472	Turdidae	0.95957977	THSH	0.9469337	herthr	0.9999988	herthr	0.9999988	Y	2023-05-03
1056.2	1057.8	0	11025	Passeriformes	0.9718293	Turdidae	0.9582566	THSH	0.9453667	herthr	0.99999714	herthr	0.9999971	Y	2023-05-03
1059.6	1061.4	0	11025	Passeriformes	0.97207505	Turdidae	0.95956147	THSH	0.9468852	herthr	0.9999989	herthr	0.9999989	Y	2023-05-03
68.4	70.2	0	11025	Passeriformes	0.9637281	Passerellidae	0.9939977	SFHS	0.98753023	whtspa	0.9978362	whtspa	0.9978362	Y	2023-05-03
539.4	541.2	0	11025	Passeriformes	0.9710317	Passerellidae	0.99512887	SFHS	0.9888815	whtspa	0.99817157	whtspa	0.9981716	Y	2023-05-03
568.8	570.4	0	11025	Passeriformes	0.97209924	Passerellidae	0.9954515	SFHS	0.9897709	whtspa	0.9984956	whtspa	0.9984956	Y	2023-05-03
614.2	615.6	0	11025	Passeriformes	0.96975136	Passerellidae	0.99489707	SFHS	0.9885373	whtspa	0.9971706	whtspa	0.9971706	Y	2023-05-03
636.4	638.2	0	11025	Passeriformes	0.97195554	Passerellidae	0.9955043	SFHS	0.99003404	whtspa	0.9975763	whtspa	0.9975763	Y	2023-05-03
706.6	708.2	0	11025	Passeriformes	0.9717781	Passerellidae	0.99539655	SFHS	0.9894007	whtspa	0.99808985	whtspa	0.9980898	Y	2023-05-03
720	721.8	0	11025	Passeriformes	0.9719877	Passerellidae	0.99541485	SFHS	0.9895711	whtspa	0.9980927	whtspa	0.9980927	Y	2023-05-03
727	728.6	0	11025	Passeriformes	0.9694867	Passerellidae	0.9948548	SFHS	0.98761755	whtspa	0.9976816	whtspa	0.9976816	Y	2023-05-03
738.8	740.6	0	11025	Passeriformes	0.97221166	Passerellidae	0.9955753	SFHS	0.99009526	whtspa	0.99857306	whtspa	0.9985731	Y	2023-05-03
746.6	748.2	0	11025	Passeriformes	0.9708301	Passerellidae	0.9951255	SFHS	0.9887475	whtspa	0.9981787	whtspa	0.9981787	Y	2023-05-03
756	757.8	0	11025	Passeriformes	0.97190905	Passerellidae	0.99545765	SFHS	0.9897522	whtspa	0.9980882	whtspa	0.9980882	Y	2023-05-03
762	763.8	0	11025	Passeriformes	0.97220594	Passerellidae	0.9955629	SFHS	0.9900591	whtspa	0.99854964	whtspa	0.9985496	Y	2023-05-03
767.8	769.6	0	11025	Passeriformes	0.97192526	Passerellidae	0.99550545	SFHS	0.989907	whtspa	0.99817455	whtspa	0.9981745	Y	2023-05-03
774.4	776.2	0	11025	Passeriformes	0.97193044	Passerellidae	0.99541795	SFHS	0.98951614	whtspa	0.9983394	whtspa	0.9983394	Y	2023-05-03
778.2	780	0	11025	Passeriformes	0.9717221	Passerellidae	0.99540687	SFHS	0.98944306	whtspa	0.9979145	whtspa	0.9979145	Y	2023-05-03
783.2	785	0	11025	Passeriformes	0.97079766	Passerellidae	0.99525106	SFHS	0.9888948	whtspa	0.9939983	whtspa	0.9939983	Y	2023-05-03
794.2	796	0	11025	Passeriformes	0.97214985	Passerellidae	0.99553275	SFHS	0.98999995	whtspa	0.9985411	whtspa	0.9985411	Y	2023-05-03
797	798.6	0	11025	Passeriformes	0.9456218	Passerellidae	0.9926878	SFHS	0.9736945	whtspa	0.99207	whtspa	0.99207	Y	2023-05-03
801	802.6	0	11025	Passeriformes	0.9707898	Passerellidae	0.99530244	SFHS	0.988116	whtspa	0.99720544	whtspa	0.9972054	Y	2023-05-03
808	809.6	0	11025	Passeriformes	0.9624536	Passerellidae	0.9939057	SFHS	0.98105675	whtspa	0.99508333	whtspa	0.9950833	Y	2023-05-03
642.4	643.8	0	11025	Passeriformes	0.97169614	Turdidae	0.9577075	THSH	0.9442029	herthr	0.9999989	herthr	0.9999989	Y	2023-05-05
656.8	658	0	11025	Passeriformes	0.9698593	Turdidae	0.95532286	THSH	0.9411765	herthr	0.9999988	herthr	0.9999988	Y	2023-05-05
673.2	674.8	0	11025	Passeriformes	0.950141	Turdidae	0.9386845	THSH	0.9175445	herthr	0.9999968	herthr	0.9999968	Y	2023-05-05
689.2	690.8	0	11025	Passeriformes	0.96562105	Turdidae	0.94888604	THSH	0.9328416	herthr	0.999998	herthr	0.999998	Y	2023-05-05
697.4	699	0	11025	Passeriformes	0.9653615	Turdidae	0.9498381	THSH	0.93363905	herthr	0.9999975	herthr	0.9999975	Y	2023-05-05
717.2	718.6	0	11025	Passeriformes	0.96962386	Turdidae	0.95353067	THSH	0.938072	herthr	0.99999845	herthr	0.9999985	Y	2023-05-05
348.2	350	0	11025	Passeriformes	0.9720125	Passerellidae	0.99536246	SFHS	0.9894817	whtspa	0.9983773	whtspa	0.9983773	Y	2023-05-08
537.4	538.8	0	11025	Passeriformes	0.9716787	Passerellidae	0.9954047	SFHS	0.98856676	whtspa	0.9972441	whtspa	0.9972441	Y	2023-05-08

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1107.6	1109	0	11025	Passeriformes	0.94706345	Passerellidae	0.99033386	SFHS	0.9747474	whtspa	0.9924043	whtspa	0.9924043	Y	2023-05-08
1150.6	1152.4	0	11025	Passeriformes	0.9566941	Passerellidae	0.9937218	SFHS	0.984125	whtspa	0.99189925	whtspa	0.9918993	Y	2023-05-08
1212.4	1213.8	0	11025	Passeriformes	0.9203845	Passerellidae	0.98482776	SFHS	0.9582024	whtspa	0.97655666	whtspa	0.9765567	Y	2023-05-08
2238	2239.8	0	11025	Passeriformes	0.9719359	Passerellidae	0.99532014	SFHS	0.9892425	whtspa	0.9979533	whtspa	0.9979533	Y	2023-05-09
2836.6	2838.2	0	11025	Passeriformes	0.967894	Passerellidae	0.99437547	SFHS	0.9857895	whtspa	0.99674666	whtspa	0.9967467	Y	2023-05-09
2849.4	2851	0	11025	Passeriformes	0.9663667	Passerellidae	0.9945234	SFHS	0.9846022	whtspa	0.9829175	whtspa	0.9829175	Y	2023-05-09
3220.8	3222.6	0	11025	Passeriformes	0.95370173	Passerellidae	0.9922144	SFHS	0.98220116	whtspa	0.99561054	whtspa	0.9956105	Y	2023-05-09
3499.8	3501.6	0	11025	Passeriformes	0.9687158	Passerellidae	0.9940101	SFHS	0.9883376	whtspa	0.99671894	whtspa	0.9967189	Y	2023-05-09
3502.2	3504	0	11025	Passeriformes	0.9719814	Passerellidae	0.995466	SFHS	0.99001324	whtspa	0.99843293	whtspa	0.9984329	Y	2023-05-09
3510.8	3512.2	0	11025	Passeriformes	0.9716627	Passerellidae	0.9951859	SFHS	0.9890399	whtspa	0.99727505	whtspa	0.9972751	Y	2023-05-09
3520.6	3523.2	0	11025	Passeriformes	0.9715366	Passerellidae	0.9952408	SFHS	0.9868008	whtspa	0.99541605	whtspa	0.995416	Y	2023-05-09
3524	3525.8	0	11025	Passeriformes	0.9721842	Passerellidae	0.9954266	SFHS	0.98958486	whtspa	0.9849932	whtspa	0.9849932	Y	2023-05-09
3556.6	3558	0	11025	Passeriformes	0.9451617	Passerellidae	0.99044025	SFHS	0.9754902	whtspa	0.9908954	whtspa	0.9908954	Y	2023-05-09
3565.4	3570.4	0	11025	Passeriformes	0.9720346	Passerellidae	0.99527633	SFHS	0.98987025	whtspa	0.99830925	whtspa	0.9983093	Y	2023-05-09
3580	3581.8	0	11025	Passeriformes	0.97173655	Passerellidae	0.99543166	SFHS	0.9896119	whtspa	0.99292964	whtspa	0.9929296	Y	2023-05-09
3583.4	3584.8	0	11025	Passeriformes	0.9716258	Passerellidae	0.99523157	SFHS	0.9893974	whtspa	0.9966061	whtspa	0.9966061	Y	2023-05-09
483.6	485.2	0	11025	Passeriformes	0.81970423							Passeriformes	0.8197042	Y	2023-05-09
10.2	11.8	0	11025	Passeriformes	0.9585168	Passerellidae	0.99338233	SFHS	0.98676074	whtspa	0.9974522	whtspa	0.9974522	Y	2023-05-09
17	18.8	0	11025	Passeriformes	0.9675616	Passerellidae	0.9937715	SFHS	0.986634	whtspa	0.99645185	whtspa	0.9964519	Y	2023-05-09
272	273.8	0	11025	Passeriformes	0.967968	Passerellidae	0.99417096	SFHS	0.985422	whtspa	0.9974605	whtspa	0.9974605	Y	2023-05-09
298.2	299.6	0	11025	Passeriformes	0.9722073	Passerellidae	0.99552804	SFHS	0.990036	whtspa	0.99461985	whtspa	0.9946198	Y	2023-05-09
300.6	302.4	0	11025	Passeriformes	0.9705476	Passerellidae	0.99520445	SFHS	0.9894079	whtspa	0.9976597	whtspa	0.9976597	Y	2023-05-09
369	371	0	11025	Passeriformes	0.8774889	Passerellidae	0.92439204	SFHS	0.8239085	whtspa	0.9501545	whtspa	0.9501545	Y	2023-05-09
551	552.4	0	11025	Passeriformes	0.97150606	Passerellidae	0.99540955	SFHS	0.9898375	whtspa	0.9971129	whtspa	0.9971129	Y	2023-05-09
2297.4	2298.8	0	11025	Passeriformes	0.967234	Turdidae	0.9490769	THSH	0.93090445	herthr	0.9999975	herthr	0.9999975	Y	2023-05-10
2307.2	2309	0	11025	Passeriformes	0.9577686	Turdidae	0.9404134	THSH	0.9113784	herthr	0.9999943	herthr	0.9999943	Y	2023-05-10
637.4	638.8	0	11025	Passeriformes	0.9517805	Turdidae	0.93364197	THSH	0.91533685	swathr	0.8413004	swathr	0.8413004	Y	2023-05-15
2742.2	2743.8	0	11025	Passeriformes	0.96898276	Parulidae	0.9553951			amered	0.8953743	amered	0.8953743	Y	2023-05-20
2863.6	2864.8	0	11025	Passeriformes	0.96172124	Parulidae	0.9489907			amered	0.8860084	amered	0.8860084	Y	2023-05-20
3461.2	3462.4	0	11025	Passeriformes	0.9603017	Passerellidae	0.99367493	DESP	0.9843449	savspa	0.990936	savspa	0.990936	Y	2023-05-20
3088.2	3089.6	0	11025	Passeriformes	0.94949865	Parulidae	0.9322237			amered	0.8768366	amered	0.8768366	Y	2023-05-21
807.2	808.8	0	11025	Passeriformes	0.96810526	Passerellidae	0.993755	DESP	0.9284365	savspa	0.96857107	savspa	0.9685711	Y	2023-05-23
1990.8	1992.6	0	11025	Passeriformes	0.8202514	Parulidae	0.9312315			amered	0.85495937	amered	0.8549594	Y	2023-05-24
462.6	464.2	0	11025	Passeriformes	0.9702997	Turdidae	0.95571285	THSH	0.94227725	swathr	0.8749275	swathr	0.8749275	Y	2023-05-24
1088.2	1090.2	0	11025	Passeriformes	0.9450631	Passerellidae	0.9907624	SFHS	0.9830216	whtspa	0.9923585	whtspa	0.9923585	Y	2023-05-26
926.6	928	0	11025	Passeriformes	0.9720824	Parulidae	0.9551691	ZEEP	0.95858717	camwar	0.9999993	camwar	0.9999993	Y	2023-05-27
1454.2	1455.4	0	11025	Passeriformes	0.97107196	Parulidae	0.9538523	ZEEP	0.9570051	camwar	0.8444118	camwar	0.8444118	Y	2023-05-27
1465.6	1466.8	0	11025	Passeriformes	0.9697529	Parulidae	0.95085573	ZEEP	0.95984316	camwar	0.99682	camwar	0.99682	Y	2023-05-27
1471.4	1473.4	0	11025	Passeriformes	0.970256	Parulidae	0.95108813	ZEEP	0.95870817	camwar	0.99306643	camwar	0.9930664	Y	2023-05-27
1478.6	1480.2	0	11025	Passeriformes	0.97077215	Parulidae	0.95461386	ZEEP	0.9581467	camwar	0.99996686	camwar	0.9999669	Y	2023-05-27
1498.8	1500.6	0	11025	Passeriformes	0.97200173	Parulidae	0.95513785	ZEEP	0.9599908	camwar	0.99239725	camwar	0.9923972	Y	2023-05-27
1512.8	1514.4	0	11025	Passeriformes	0.9721676	Parulidae	0.9562368	ZEEP	0.9623962	camwar	0.9999145	camwar	0.9999145	Y	2023-05-27
1543	1544.6	0	11025	Passeriformes	0.97219115	Parulidae	0.95618576	ZEEP	0.9627405	camwar	0.99958843	camwar	0.9995884	Y	2023-05-27
1548.4	1550.2	0	11025	Passeriformes	0.9630683	Parulidae	0.95015556	ZEEP	0.946489	camwar	0.99005777	camwar	0.9900578	Y	2023-05-27
1555.4	1556.6	0	11025	Passeriformes	0.9722239	Parulidae	0.95645756	ZEEP	0.96296626	camwar	0.9999993	camwar	0.9999993	Y	2023-05-27
1559.4	1561	0	11025	Passeriformes	0.9721173	Parulidae	0.9560676	ZEEP	0.9587698	camwar	0.9999964	camwar	0.9999964	Y	2023-05-27
1569.2	1570.6	0	11025	Passeriformes	0.9704353	Parulidae	0.9529844	ZEEP	0.9451468	camwar	0.999111	camwar	0.999111	Y	2023-05-27
1644.4	1646.4	0	11025	Passeriformes	0.9617644	Parulidae	0.92722344	ZEEP	0.8718939	camwar	0.9538743	camwar	0.9538743	Y	2023-05-27
1652.6	1653.8	0	11025	Passeriformes	0.9719241	Parulidae	0.95579094	ZEEP	0.9602462	camwar	0.9999945	camwar	0.9999945	Y	2023-05-27
1666.4	1667.6	0	11025	Passeriformes	0.97105366	Parulidae	0.9526155	ZEEP	0.9571883	camwar	0.99158466	camwar	0.9915847	Y	2023-05-27
1672	1673.4	0	11025	Passeriformes	0.97222185	Parulidae	0.95642525	ZEEP	0.9629237	camwar	0.99999726	camwar	0.9999973	Y	2023-05-27
1681.2	1682.6	0	11025	Passeriformes	0.9693718	Parulidae	0.9518061	ZEEP	0.9592683	camwar	0.9998864	camwar	0.9998864	Y	2023-05-27
1683.8	1685.2	0	11025	Passeriformes	0.97220355	Parulidae	0.9563687	ZEEP	0.9627839	camwar	0.99999297	camwar	0.999993	Y	2023-05-27
1685.4	1687.2	0	11025	Passeriformes	0.9722081	Parulidae	0.9564221	ZEEP	0.9627146	camwar	0.99999714	camwar	0.9999971	Y	2023-05-27
1692.6	1694.2	0	11025	Passeriformes	0.9709155	Parulidae	0.9534508	ZEEP	0.957555	camwar	0.99703443	camwar	0.9970344	Y	2023-05-27
1698.2	1700.2	0	11025	Passeriformes	0.9722012	Parulidae	0.9563688	ZEEP	0.9613473	camwar	0.9999814	camwar	0.9999814	Y	2023-05-27
1706	1707.4	0	11025	Passeriformes	0.9721671	Parulidae	0.9557533	ZEEP	0.94679487	camwar	0.9884497	camwar	0.9884497	Y	2023-05-27



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1711.2	1713.4	0	11025	Passeriformes	0.9722057	Parulidae	0.9564623	ZEEP	0.95988286	camwar	0.9999665	camwar	0.9999665	Y	2023-05-27
1752.8	1754.2	0	11025	Passeriformes	0.9712214	Parulidae	0.95478016	ZEEP	0.9600309	camwar	0.99996066	camwar	0.9999607	Y	2023-05-27
1775.6	1777.4	0	11025	Passeriformes	0.97193617	Parulidae	0.9557443	ZEEP	0.9550028	camwar	0.99998605	camwar	0.9999861	Y	2023-05-27
1798	1799.4	0	11025	Passeriformes	0.9721147	Parulidae	0.95585716	ZEEP	0.9619784	camwar	0.9990977	camwar	0.9990977	Y	2023-05-27
1810.2	1812.4	0	11025	Passeriformes	0.9715234	Parulidae	0.95059216	ZEEP	0.9410165	camwar	0.9921705	camwar	0.9921705	Y	2023-05-27
1816	1817.6	0	11025	Passeriformes	0.971599	Parulidae	0.9559995	ZEEP	0.94749296	camwar	0.99586487	camwar	0.9958649	Y	2023-05-27
1831.4	1832.8	0	11025	Passeriformes	0.97180104	Parulidae	0.95567614	ZEEP	0.9606711	camwar	0.9989089	camwar	0.9989089	Y	2023-05-27
1839.6	1841	0	11025	Passeriformes	0.96933955	Parulidae	0.9523836	ZEEP	0.9544843	camwar	0.99993825	camwar	0.9999382	Y	2023-05-27
1856.8	1859.6	0	11025	Passeriformes	0.9693319	Parulidae	0.9528227	ZEEP	0.9559651	camwar	0.98386186	camwar	0.9838619	Y	2023-05-27
2481.2	2483	0	11025	Passeriformes	0.9717668	Parulidae	0.9553024	ZEEP	0.95781785	camwar	0.9999734	camwar	0.9999734	Y	2023-05-27
2680.8	2682.2	0	11025	Passeriformes	0.96122503	Parulidae	0.9070719	ZEEP	0.9303814	camwar	0.99981266	camwar	0.9998127	Y	2023-05-27
2686.6	2688.2	0	11025	Passeriformes	0.9715054	Parulidae	0.95449466	ZEEP	0.9457768	camwar	0.9999999	camwar	0.9999999	Y	2023-05-27
2130.4	2131.8	0	11025	Passeriformes	0.95944136	Cardinalidae	0.98986125	TANA	0.9999999	scatan	0.9999949	scatan	0.9999949	Y	2023-05-27
0	1.6	0	11025	Passeriformes	0.9721782	Passerellidae	0.9955551	SFHS	0.9901059	whtspace	0.9985336	whtspace	0.9985336	Y	2023-05-27
3	4.8	0	11025	Passeriformes	0.9722295	Passerellidae	0.9955649	SFHS	0.9901687	whtspace	0.9985965	whtspace	0.9985965	Y	2023-05-27
5.6	7.4	0	11025	Passeriformes	0.9700379	Passerellidae	0.9935948	SFHS	0.98850816	whtspace	0.9976931	whtspace	0.9976931	Y	2023-05-27
8.4	10.2	0	11025	Passeriformes	0.97216445	Passerellidae	0.99548495	SFHS	0.99002445	whtspace	0.9985043	whtspace	0.9985043	Y	2023-05-27
14.2	16	0	11025	Passeriformes	0.9719111	Passerellidae	0.9954633	SFHS	0.9898935	whtspace	0.99828917	whtspace	0.9982892	Y	2023-05-27
16.4	18.2	0	11025	Passeriformes	0.9717713	Passerellidae	0.9952305	SFHS	0.9898769	whtspace	0.9983719	whtspace	0.9983719	Y	2023-05-27
19	20.8	0	11025	Passeriformes	0.97203946	Passerellidae	0.99513876	SFHS	0.98979926	whtspace	0.9985013	whtspace	0.9985013	Y	2023-05-27
43.2	44.4	0	11025	Passeriformes	0.92267096	Passerellidae	0.9612149	SFHS	0.9157607	whtspace	0.88683176	whtspace	0.8868318	Y	2023-05-27
45.4	47.2	0	11025	Passeriformes	0.9716994	Passerellidae	0.99506974	SFHS	0.9892436	whtspace	0.99390763	whtspace	0.9939076	Y	2023-05-27
51.8	53.4	0	11025	Passeriformes	0.9684009	Passerellidae	0.9939366	SFHS	0.9878059	whtspace	0.9977863	whtspace	0.9977863	Y	2023-05-27
60	61.8	0	11025	Passeriformes	0.97075236	Passerellidae	0.9945697	SFHS	0.9870214	whtspace	0.997047	whtspace	0.997047	Y	2023-05-27
65.2	68.8	0	11025	Passeriformes	0.9719055	Passerellidae	0.9952975	SFHS	0.98959047	whtspace	0.9983943	whtspace	0.9983943	Y	2023-05-27
69.6	71.4	0	11025	Passeriformes	0.97175074	Passerellidae	0.99518377	SFHS	0.9898065	whtspace	0.9983943	whtspace	0.9983943	Y	2023-05-27
72.2	74	0	11025	Passeriformes	0.97151697	Passerellidae	0.9951475	SFHS	0.9897663	whtspace	0.9983961	whtspace	0.9983961	Y	2023-05-27
75	76.8	0	11025	Passeriformes	0.97198945	Passerellidae	0.99547714	SFHS	0.9899294	whtspace	0.99839467	whtspace	0.9983947	Y	2023-05-27
81.6	83	0	11025	Passeriformes	0.96763915	Passerellidae	0.99433386	SFHS	0.98689806	whtspace	0.99482536	whtspace	0.9948254	Y	2023-05-27
83.4	85.2	0	11025	Passeriformes	0.9720523	Passerellidae	0.99544686	SFHS	0.9898504	whtspace	0.99834013	whtspace	0.9983401	Y	2023-05-27
88	89.8	0	11025	Passeriformes	0.97174734	Passerellidae	0.99522686	SFHS	0.98984176	whtspace	0.9981883	whtspace	0.9981883	Y	2023-05-27
90.4	92.2	0	11025	Passeriformes	0.971564	Passerellidae	0.9953713	SFHS	0.9899244	whtspace	0.9983695	whtspace	0.9983695	Y	2023-05-27
92.4	94.2	0	11025	Passeriformes	0.97207326	Passerellidae	0.99549794	SFHS	0.990076	whtspace	0.99851936	whtspace	0.9985194	Y	2023-05-27
95.8	97.6	0	11025	Passeriformes	0.97206795	Passerellidae	0.99530715	SFHS	0.98980755	whtspace	0.99843174	whtspace	0.9984317	Y	2023-05-27
98.4	100.2	0	11025	Passeriformes	0.97203505	Passerellidae	0.9954726	SFHS	0.98996794	whtspace	0.99834013	whtspace	0.9983401	Y	2023-05-27
101.8	103.6	0	11025	Passeriformes	0.97191364	Passerellidae	0.99540246	SFHS	0.9899422	whtspace	0.99831545	whtspace	0.9983155	Y	2023-05-27
104.4	106.2	0	11025	Passeriformes	0.9721762	Passerellidae	0.9955232	SFHS	0.99010897	whtspace	0.99848205	whtspace	0.998482	Y	2023-05-27
107.4	109.2	0	11025	Passeriformes	0.97080845	Passerellidae	0.99462175	SFHS	0.989291	whtspace	0.9977708	whtspace	0.9977708	Y	2023-05-27
109.8	111.4	0	11025	Passeriformes	0.96755934	Passerellidae	0.9904207	SFHS	0.9805469	whtspace	0.9853527	whtspace	0.9853527	Y	2023-05-27
112.6	114.4	0	11025	Passeriformes	0.97217983	Passerellidae	0.99553865	SFHS	0.9900927	whtspace	0.99844736	whtspace	0.9984474	Y	2023-05-27
115.4	117.2	0	11025	Passeriformes	0.9720729	Passerellidae	0.9954579	SFHS	0.9899877	whtspace	0.9975382	whtspace	0.9975382	Y	2023-05-27
119.4	121.2	0	11025	Passeriformes	0.9718255	Passerellidae	0.9953003	SFHS	0.9897481	whtspace	0.9981395	whtspace	0.9981395	Y	2023-05-27
124.6	126	0	11025	Passeriformes	0.9678412	Passerellidae	0.9828845	SFHS	0.98262537	whtspace	0.9962121	whtspace	0.9962121	Y	2023-05-27
127.4	129.2	0	11025	Passeriformes	0.97205377	Passerellidae	0.99541914	SFHS	0.9898509	whtspace	0.99791545	whtspace	0.9979154	Y	2023-05-27
131.8	133.6	0	11025	Passeriformes	0.9722021	Passerellidae	0.9955467	SFHS	0.9901196	whtspace	0.9984542	whtspace	0.9984542	Y	2023-05-27
135.4	137	0	11025	Passeriformes	0.9715668	Passerellidae	0.9951084	SFHS	0.98906446	whtspace	0.99829537	whtspace	0.9982954	Y	2023-05-27
138.8	140.6	0	11025	Passeriformes	0.97186345	Passerellidae	0.995235	SFHS	0.9895566	whtspace	0.9981527	whtspace	0.9981527	Y	2023-05-27
142.2	143.8	0	11025	Passeriformes	0.9657946	Passerellidae	0.99133015	SFHS	0.9797024	whtspace	0.9899172	whtspace	0.9899172	Y	2023-05-27
144.4	146.2	0	11025	Passeriformes	0.9721919	Passerellidae	0.99550456	SFHS	0.9899831	whtspace	0.9984634	whtspace	0.9984634	Y	2023-05-27
147.2	149	0	11025	Passeriformes	0.9703916	Passerellidae	0.9946326	SFHS	0.98835933	whtspace	0.9975605	whtspace	0.9975605	Y	2023-05-27
150.2	151.8	0	11025	Passeriformes	0.9556411	Passerellidae	0.976433	SFHS	0.96588844	whtspace	0.99262965	whtspace	0.9926296	Y	2023-05-27
153.4	155.2	0	11025	Passeriformes	0.9715298	Passerellidae	0.99517596	SFHS	0.989475	whtspace	0.9982639	whtspace	0.9982639	Y	2023-05-27
156	157.8	0	11025	Passeriformes	0.9720434	Passerellidae	0.9954099	SFHS	0.98987585	whtspace	0.9982174	whtspace	0.9982174	Y	2023-05-27
158.4	160.2	0	11025	Passeriformes	0.9720426	Passerellidae	0.9954847	SFHS	0.9900002	whtspace	0.99836916	whtspace	0.9983692	Y	2023-05-27
162	163.4	0	11025	Passeriformes	0.9647566	Passerellidae	0.98729986	SFHS	0.97866344	whtspace	0.98833686	whtspace	0.9883369	Y	2023-05-27
164.4	166.2	0	11025	Passeriformes	0.9695218	Passerellidae	0.994696	SFHS	0.98865664	whtspace	0.99753225	whtspace	0.9975322	Y	2023-05-27
167	168.8	0	11025	Passeriformes	0.97182715	Passerellidae	0.9953499	SFHS	0.9897926	whtspace	0.99831474	whtspace	0.9983147	Y	2023-05-27

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
170.6	172.2	0	11025	Passeriformes	0.9625617	Passerellidae	0.98994666	SFHS	0.9793394	whtspa	0.9939249	whtspa	0.9939249	Y	2023-05-27
173.6	175.4	0	11025	Passeriformes	0.9718166	Passerellidae	0.99544287	SFHS	0.9897586	whtspa	0.99808913	whtspa	0.9980891	Y	2023-05-27
177	178.8	0	11025	Passeriformes	0.9623111	Passerellidae	0.99161536	SFHS	0.9839497	whtspa	0.9967078	whtspa	0.9967078	Y	2023-05-27
181.8	183	0	11025	Passeriformes	0.94607353	Passerellidae	0.9784469	SFHS	0.97016305	whtspa	0.97470224	whtspa	0.9747022	Y	2023-05-27
189	190.8	0	11025	Passeriformes	0.9714488	Passerellidae	0.9951355	SFHS	0.9894378	whtspa	0.99820435	whtspa	0.9982044	Y	2023-05-27
196	197.8	0	11025	Passeriformes	0.9691695	Passerellidae	0.99425715	SFHS	0.9877154	whtspa	0.99678314	whtspa	0.9967831	Y	2023-05-27
213.8	215.2	0	11025	Passeriformes	0.966506	Passerellidae	0.9944161	SFHS	0.98729604	whtspa	0.9972658	whtspa	0.9972658	Y	2023-05-27
217.2	219	0	11025	Passeriformes	0.9707583	Passerellidae	0.99513125	SFHS	0.98921585	whtspa	0.99832064	whtspa	0.9983206	Y	2023-05-27
220	223.2	0	11025	Passeriformes	0.97051316	Passerellidae	0.99411994	SFHS	0.98775905	whtspa	0.9978682	whtspa	0.9978682	Y	2023-05-27
228.6	230.4	0	11025	Passeriformes	0.967397	Passerellidae	0.98972553	SFHS	0.9826645	whtspa	0.99593973	whtspa	0.9959397	Y	2023-05-27
263.4	266	0	11025	Passeriformes	0.95454353	Passerellidae	0.98372215	SFHS	0.94962096	whtspa	0.9543837	whtspa	0.9543837	Y	2023-05-27
273	274.4	0	11025	Passeriformes	0.97158885	Passerellidae	0.99520063	SFHS	0.98951155	whtspa	0.99411917	whtspa	0.9941192	Y	2023-05-27
274.8	276.6	0	11025	Passeriformes	0.97146994	Passerellidae	0.99520797	SFHS	0.9897249	whtspa	0.9959706	whtspa	0.9959706	Y	2023-05-27
278.4	280.2	0	11025	Passeriformes	0.97106767	Passerellidae	0.99385697	SFHS	0.9871596	whtspa	0.9964019	whtspa	0.9964019	Y	2023-05-27
282.4	285.4	0	11025	Passeriformes	0.9716632	Passerellidae	0.9952975	SFHS	0.9895767	whtspa	0.9982876	whtspa	0.9982876	Y	2023-05-27
295.6	297	0	11025	Passeriformes	0.96952045	Passerellidae	0.9946924	SFHS	0.9895489	whtspa	0.9975847	whtspa	0.9975847	Y	2023-05-27
298.8	300.6	0	11025	Passeriformes	0.9659315	Passerellidae	0.9946485	SFHS	0.98828286	whtspa	0.99703586	whtspa	0.9970359	Y	2023-05-27
305.2	307	0	11025	Passeriformes	0.9715964	Passerellidae	0.99500847	SFHS	0.98938715	whtspa	0.9980756	whtspa	0.9980756	Y	2023-05-27
309.6	311.4	0	11025	Passeriformes	0.9716986	Passerellidae	0.9945576	SFHS	0.98808086	whtspa	0.9967434	whtspa	0.9967434	Y	2023-05-27
317.6	319.4	0	11025	Passeriformes	0.9715574	Passerellidae	0.99506456	SFHS	0.98882127	whtspa	0.99732	whtspa	0.99732	Y	2023-05-27
323.6	325.2	0	11025	Passeriformes	0.9719944	Passerellidae	0.9954726	SFHS	0.99007976	whtspa	0.99415475	whtspa	0.9941548	Y	2023-05-27
325.8	327.6	0	11025	Passeriformes	0.9717747	Passerellidae	0.9946871	SFHS	0.98909247	whtspa	0.9981192	whtspa	0.9981192	Y	2023-05-27
328.4	330.2	0	11025	Passeriformes	0.9711114	Passerellidae	0.99535096	SFHS	0.9888347	whtspa	0.99585164	whtspa	0.9958516	Y	2023-05-27
335.2	337	0	11025	Passeriformes	0.9721234	Passerellidae	0.99550444	SFHS	0.99000996	whtspa	0.9984511	whtspa	0.9984511	Y	2023-05-27
340	341.8	0	11025	Passeriformes	0.97171336	Passerellidae	0.9951231	SFHS	0.9889586	whtspa	0.9973578	whtspa	0.9973578	Y	2023-05-27
342.8	344.6	0	11025	Passeriformes	0.97081345	Passerellidae	0.99476695	SFHS	0.98887783	whtspa	0.9974299	whtspa	0.9974299	Y	2023-05-27
346.6	348.4	0	11025	Passeriformes	0.96943486	Passerellidae	0.9936609	SFHS	0.98838824	whtspa	0.9930373	whtspa	0.9930373	Y	2023-05-27
354.8	356.6	0	11025	Passeriformes	0.9721921	Passerellidae	0.9955581	SFHS	0.9901305	whtspa	0.9983329	whtspa	0.9983329	Y	2023-05-27
357.6	359.4	0	11025	Passeriformes	0.9710024	Passerellidae	0.99509627	SFHS	0.98936087	whtspa	0.9975217	whtspa	0.9975217	Y	2023-05-27
360.8	362.4	0	11025	Passeriformes	0.9705145	Passerellidae	0.9949935	SFHS	0.9886198	whtspa	0.99595827	whtspa	0.9959583	Y	2023-05-27
367	368.8	0	11025	Passeriformes	0.97081435	Passerellidae	0.99406177	SFHS	0.9885865	whtspa	0.997134	whtspa	0.997134	Y	2023-05-27
370.6	372.4	0	11025	Passeriformes	0.970709	Passerellidae	0.99479055	SFHS	0.9882691	whtspa	0.9951814	whtspa	0.9951814	Y	2023-05-27
373.6	375.4	0	11025	Passeriformes	0.9721807	Passerellidae	0.9955224	SFHS	0.99007577	whtspa	0.9984592	whtspa	0.9984592	Y	2023-05-27
376.4	381.2	0	11025	Passeriformes	0.9714526	Passerellidae	0.9952884	SFHS	0.9897357	whtspa	0.9983084	whtspa	0.9983084	Y	2023-05-27
381.8	383.4	0	11025	Passeriformes	0.9715238	Passerellidae	0.99530786	SFHS	0.98968554	whtspa	0.9962024	whtspa	0.9962024	Y	2023-05-27
384.2	386.8	0	11025	Passeriformes	0.97197986	Passerellidae	0.9954959	SFHS	0.9899637	whtspa	0.9977952	whtspa	0.9977952	Y	2023-05-27
388.2	391	0	11025	Passeriformes	0.97193277	Passerellidae	0.99526536	SFHS	0.989688	whtspa	0.99815756	whtspa	0.9981576	Y	2023-05-27
393.6	395.4	0	11025	Passeriformes	0.97219265	Passerellidae	0.9955408	SFHS	0.9900506	whtspa	0.99632204	whtspa	0.996322	Y	2023-05-27
395.8	397.6	0	11025	Passeriformes	0.9714697	Passerellidae	0.99515224	SFHS	0.9895537	whtspa	0.99680114	whtspa	0.9968011	Y	2023-05-27
399	400.8	0	11025	Passeriformes	0.97180116	Passerellidae	0.9954334	SFHS	0.9898453	whtspa	0.99844617	whtspa	0.9984462	Y	2023-05-27
401.4	406.4	0	11025	Passeriformes	0.971386	Passerellidae	0.9947314	SFHS	0.9881501	whtspa	0.9974252	whtspa	0.9974252	Y	2023-05-27
408.6	410.2	0	11025	Passeriformes	0.9721078	Passerellidae	0.9953263	SFHS	0.98982996	whtspa	0.9967583	whtspa	0.9967583	Y	2023-05-27
412	414.4	0	11025	Passeriformes	0.9695169	Passerellidae	0.9930328	SFHS	0.98504364	whtspa	0.9814718	whtspa	0.9814718	Y	2023-05-27
415.2	417	0	11025	Passeriformes	0.9711285	Passerellidae	0.99348396	SFHS	0.9889848	whtspa	0.99780566	whtspa	0.9978057	Y	2023-05-27
425.6	427.4	0	11025	Passeriformes	0.97199416	Passerellidae	0.9952952	SFHS	0.989938	whtspa	0.99775785	whtspa	0.9977579	Y	2023-05-27
430.4	432.2	0	11025	Passeriformes	0.97203547	Passerellidae	0.9954743	SFHS	0.99002504	whtspa	0.9976058	whtspa	0.9976058	Y	2023-05-27
435.8	437.6	0	11025	Passeriformes	0.97126985	Passerellidae	0.9952303	SFHS	0.989542	whtspa	0.98085517	whtspa	0.9808552	Y	2023-05-27
439.2	441	0	11025	Passeriformes	0.9718103	Passerellidae	0.9952603	SFHS	0.9898114	whtspa	0.9979132	whtspa	0.9979132	Y	2023-05-27
443.2	446.2	0	11025	Passeriformes	0.9721453	Passerellidae	0.99547416	SFHS	0.99002236	whtspa	0.9981487	whtspa	0.9981487	Y	2023-05-27
447.8	449.6	0	11025	Passeriformes	0.97101134	Passerellidae	0.9948902	SFHS	0.9891936	whtspa	0.9921515	whtspa	0.9921515	Y	2023-05-27
453.4	456.2	0	11025	Passeriformes	0.97049236	Passerellidae	0.99502605	SFHS	0.98857427	whtspa	0.99744415	whtspa	0.9974442	Y	2023-05-27
537.8	539.2	0	11025	Passeriformes	0.9711435	Passerellidae	0.9951534	SFHS	0.98907334	whtspa	0.9938094	whtspa	0.9938094	Y	2023-05-27
556.8	558.6	0	11025	Passeriformes	0.97199464	Passerellidae	0.995344	SFHS	0.98968047	whtspa	0.9976708	whtspa	0.9976708	Y	2023-05-27
561.2	563	0	11025	Passeriformes	0.9717082	Passerellidae	0.99504954	SFHS	0.98932767	whtspa	0.99653107	whtspa	0.9965311	Y	2023-05-27
564.8	568	0	11025	Passeriformes	0.9720447	Passerellidae	0.9953719	SFHS	0.9899704	whtspa	0.9976272	whtspa	0.9976272	Y	2023-05-27
571.4	572.8	0	11025	Passeriformes	0.9721881	Passerellidae	0.99549854	SFHS	0.9898372	whtspa	0.9324391	whtspa	0.9324391	Y	2023-05-27
576.6	578.4	0	11025	Passeriformes	0.9712701	Passerellidae	0.9950411	SFHS	0.9896209	whtspa	0.9973258	whtspa	0.9973258	Y	2023-05-27

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
586	588.2	0	11025	Passeriformes	0.9705226	Passerellidae	0.99422616	SFHS	0.9880657	whtspa	0.99598855	whtspa	0.9959885	Y	2023-05-27
591.8	593.6	0	11025	Passeriformes	0.9685629	Passerellidae	0.99341655	SFHS	0.9873389	whtspa	0.9978763	whtspa	0.9978763	Y	2023-05-27
596	597.8	0	11025	Passeriformes	0.96777177	Passerellidae	0.99409854	SFHS	0.9878715	whtspa	0.9956119	whtspa	0.9956119	Y	2023-05-27
601.4	604	0	11025	Passeriformes	0.96379846	Passerellidae	0.9929382	SFHS	0.98175514	whtspa	0.9908298	whtspa	0.9908298	Y	2023-05-27
604.4	605.8	0	11025	Passeriformes	0.9689905	Passerellidae	0.9909071	SFHS	0.9740821	whtspa	0.9339765	whtspa	0.9339765	Y	2023-05-27
606.8	608.6	0	11025	Passeriformes	0.96429694	Passerellidae	0.9924604	SFHS	0.9878236	whtspa	0.9971687	whtspa	0.9971687	Y	2023-05-27
613.4	616.8	0	11025	Passeriformes	0.97029144	Passerellidae	0.993232	SFHS	0.9889065	whtspa	0.99713683	whtspa	0.9971368	Y	2023-05-27
620	621.8	0	11025	Passeriformes	0.97123355	Passerellidae	0.9947279	SFHS	0.9882229	whtspa	0.992788	whtspa	0.992788	Y	2023-05-27
636.8	638.4	0	11025	Passeriformes	0.96798295	Passerellidae	0.99402857	SFHS	0.9890848	whtspa	0.99773943	whtspa	0.9977394	Y	2023-05-27
1910.6	1912.2	0	11025	Passeriformes	0.9661598	Parulidae	0.95439947			amered	0.9013851	amered	0.9013851	Y	2023-05-28
1966.8	1968.2	0	11025	Passeriformes	0.9609125	Parulidae	0.95178246			amered	0.8940948	amered	0.8940948	Y	2023-05-28
1084	1085.6	0	11025	Passeriformes	0.9721788	Parulidae	0.95621777	ZEEP	0.96225244	camwar	0.9999993	camwar	0.9999993	Y	2023-05-28
1397.4	1399.2	0	11025	Passeriformes	0.95662564	Parulidae	0.9157952	ZEEP	0.8952282	camwar	0.9995315	camwar	0.9995315	Y	2023-05-28
1469.6	1470.8	0	11025	Passeriformes	0.9718149	Parulidae	0.95105875	ZEEP	0.95698184	camwar	0.9958751	camwar	0.9958751	Y	2023-05-28
1551	1552.8	0	11025	Passeriformes	0.9719909	Parulidae	0.9551791	ZEEP	0.96197826	camwar	0.9999467	camwar	0.9999467	Y	2023-05-28
1610.2	1611.4	0	11025	Passeriformes	0.97214633	Parulidae	0.9559875	ZEEP	0.95734084	camwar	0.9999958	camwar	0.9999958	Y	2023-05-28
1618.4	1619.6	0	11025	Passeriformes	0.97182876	Parulidae	0.95603883	ZEEP	0.95912325	camwar	0.99988985	camwar	0.9998899	Y	2023-05-28
1823.6	1825	0	11025	Passeriformes	0.96929866	Parulidae	0.9515223	ZEEP	0.9377865	camwar	0.9885385	camwar	0.9885385	Y	2023-05-28
1893	1894.2	0	11025	Passeriformes	0.9622326	Parulidae	0.94533014	ZEEP	0.9514733	camwar	0.99973756	camwar	0.9997376	Y	2023-05-28
2003	2004.8	0	11025	Passeriformes	0.9720978	Parulidae	0.95607066	ZEEP	0.96054167	camwar	0.9999974	camwar	0.9999974	Y	2023-05-28
2352	2354	0	11025	Passeriformes	0.972038	Parulidae	0.9558568	ZEEP	0.9617282	camwar	0.9999727	camwar	0.9999727	Y	2023-05-28
745.4	746.8	0	11025	Passeriformes	0.9688891	Passerellidae	0.994919			daejun	0.9965288	daejun	0.9965288	Y	2023-05-28
759	760.2	0	11025	Passeriformes	0.9721119	Passerellidae	0.9953433			daejun	0.99312085	daejun	0.9931208	Y	2023-05-28
794.8	796.4	0	11025	Passeriformes	0.958151	Passerellidae	0.9936691			daejun	0.99323213	daejun	0.9932321	Y	2023-05-28
917.2	918.6	0	11025	Passeriformes	0.96002847	Passerellidae	0.9885188			daejun	0.9919883	daejun	0.9919883	Y	2023-05-28
966	967.2	0	11025	Passeriformes	0.9666316	Passerellidae	0.99113524			daejun	0.99313873	daejun	0.9931387	Y	2023-05-28
987.6	989.2	0	11025	Passeriformes	0.9695369	Passerellidae	0.9915324			daejun	0.99303496	daejun	0.993035	Y	2023-05-28
1028	1029.4	0	11025	Passeriformes	0.9646087	Passerellidae	0.99310774			daejun	0.99465513	daejun	0.9946551	Y	2023-05-28
1031.4	1032.8	0	11025	Passeriformes	0.97118044	Passerellidae	0.9817671			daejun	0.9801516	daejun	0.9801516	Y	2023-05-28
1174.2	1175.4	0	11025	Passeriformes	0.9708665	Passerellidae	0.99388874			daejun	0.98898983	daejun	0.9889898	Y	2023-05-28
1178	1179.4	0	11025	Passeriformes	0.97156996	Passerellidae	0.9954086			daejun	0.9159627	daejun	0.9159627	Y	2023-05-28
1191.6	1193.2	0	11025	Passeriformes	0.96828306	Passerellidae	0.9905751			daejun	0.9931155	daejun	0.9931155	Y	2023-05-28
1422.6	1424.6	0	11025	Passeriformes	0.9715154	Passerellidae	0.9904316			daejun	0.9915844	daejun	0.9915844	Y	2023-05-28
1433	1434.2	0	11025	Passeriformes	0.9513985	Passerellidae	0.9723427			daejun	0.9762679	daejun	0.9762679	Y	2023-05-28
1454.4	1455.6	0	11025	Passeriformes	0.9233014	Passerellidae	0.97800696			daejun	0.91361684	daejun	0.9136168	Y	2023-05-28
1465.8	1468	0	11025	Passeriformes	0.9665832	Passerellidae	0.9934267			daejun	0.9948526	daejun	0.9948526	Y	2023-05-28
1480	1482.4	0	11025	Passeriformes	0.9704545	Passerellidae	0.99006385			daejun	0.99274933	daejun	0.9927493	Y	2023-05-28
1497	1499	0	11025	Passeriformes	0.97114843	Passerellidae	0.9883718			daejun	0.99241394	daejun	0.9924139	Y	2023-05-28
384.4	386.2	0	11025	Passeriformes	0.96507597	Passerellidae	0.9911652	SFHS	0.9847985	whtspa	0.99432904	whtspa	0.994329	Y	2023-05-28
413.2	414.8	0	11025	Passeriformes	0.92275095	Passerellidae	0.97255343	SFHS	0.9412802	whtspa	0.98520225	whtspa	0.9852023	Y	2023-05-28
420	421.8	0	11025	Passeriformes	0.9602082	Passerellidae	0.989466	SFHS	0.9848178	whtspa	0.9061015	whtspa	0.9061015	Y	2023-05-28
422.8	424.2	0	11025	Passeriformes	0.9608991	Passerellidae	0.9919109	SFHS	0.98460686	whtspa	0.9916917	whtspa	0.9916917	Y	2023-05-28
441.6	443	0	11025	Passeriformes	0.9477399	Passerellidae	0.9813741	SFHS	0.96744573	whtspa	0.9869625	whtspa	0.9869625	Y	2023-05-28
524.2	526	0	11025	Passeriformes	0.9709688	Passerellidae	0.99479693	SFHS	0.98934805	whtspa	0.99733514	whtspa	0.9973351	Y	2023-05-28
532	533.8	0	11025	Passeriformes	0.94300115	Passerellidae	0.988593	SFHS	0.96076816	whtspa	0.98848116	whtspa	0.9884812	Y	2023-05-28
552.2	554	0	11025	Passeriformes	0.9720158	Passerellidae	0.99547076	SFHS	0.9899607	whtspa	0.9977156	whtspa	0.9977156	Y	2023-05-28
556.8	558.6	0	11025	Passeriformes	0.93869925	Passerellidae	0.96595585	SFHS	0.96154267	whtspa	0.98446184	whtspa	0.9844618	Y	2023-05-28
1085	1086.4	0	11025	Passeriformes	0.9721205	Passerellidae	0.9954727	SFHS	0.9897653	whtspa	0.99229455	whtspa	0.9922945	Y	2023-05-28
1124	1125.8	0	11025	Passeriformes	0.9722287	Passerellidae	0.99558496	SFHS	0.9875246	whtspa	0.9935062	whtspa	0.9935062	Y	2023-05-28
1129	1130.6	0	11025	Passeriformes	0.97097135	Passerellidae	0.99536246	SFHS	0.9858957	whtspa	0.9967031	whtspa	0.9967031	Y	2023-05-28
1131.8	1133.2	0	11025	Passeriformes	0.97223526	Passerellidae	0.99551	SFHS	0.989974	whtspa	0.95714396	whtspa	0.957144	Y	2023-05-28
1143.8	1145.2	0	11025	Passeriformes	0.96712196	Passerellidae	0.9949935	SFHS	0.98364025	whtspa	0.98969054	whtspa	0.9896905	Y	2023-05-28
1152.6	1154	0	11025	Passeriformes	0.96976894	Passerellidae	0.994869	SFHS	0.9859946	whtspa	0.96677744	whtspa	0.9667774	Y	2023-05-28
1164.8	1166.2	0	11025	Passeriformes	0.97192717	Passerellidae	0.99553937	SFHS	0.98983485	whtspa	0.9978745	whtspa	0.9978745	Y	2023-05-28
1167.2	1168.6	0	11025	Passeriformes	0.971762	Passerellidae	0.9954145	SFHS	0.98829716	whtspa	0.99517834	whtspa	0.9951783	Y	2023-05-28
1169.2	1170.4	0	11025	Passeriformes	0.9681069	Passerellidae	0.9945267	SFHS	0.9870859	whtspa	0.9825017	whtspa	0.9825017	Y	2023-05-28
1171.8	1173.6	0	11025	Passeriformes	0.97211176	Passerellidae	0.99555796	SFHS	0.99011314	whtspa	0.997682	whtspa	0.997682	Y	2023-05-28



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1177.4	1179.2	0	11025	Passeriformes	0.97141594	Passerellidae	0.9953654	SFHS	0.98962283	whtspa	0.9605594	whtspa	0.9605594	Y	2023-05-28
1185.8	1187.2	0	11025	Passeriformes	0.9718732	Passerellidae	0.99552155	SFHS	0.98860115	whtspa	0.96967065	whtspa	0.9696707	Y	2023-05-28
1212	1213.2	0	11025	Passeriformes	0.9631904	Passerellidae	0.99329054	SFHS	0.9856287	whtspa	0.9953034	whtspa	0.9953034	Y	2023-05-28
1288.4	1289.6	0	11025	Passeriformes	0.9714702	Passerellidae	0.99524045	SFHS	0.9064772	whtspa	0.85164094	whtspa	0.8516409	Y	2023-05-28
1459.8	1461	0	11025	Passeriformes	0.9712545	Passerellidae	0.9953107	SFHS	0.9894817	whtspa	0.9973157	whtspa	0.9973157	Y	2023-05-28
1732.6	1735.6	0	11025	Passeriformes	0.9718583	Passerellidae	0.9951702	SFHS	0.9898162	whtspa	0.99846303	whtspa	0.998463	Y	2023-05-28
1742.6	1744	0	11025	Passeriformes	0.9512782	Passerellidae	0.979322	SFHS	0.9776267	whtspa	0.99039686	whtspa	0.9903969	Y	2023-05-28
1747.2	1749.6	0	11025	Passeriformes	0.9693527	Passerellidae	0.9940461	SFHS	0.9869892	whtspa	0.99766517	whtspa	0.9976652	Y	2023-05-28
1759.2	1761	0	11025	Passeriformes	0.97125834	Passerellidae	0.9950035	SFHS	0.989588	whtspa	0.9983177	whtspa	0.9983177	Y	2023-05-28
1876.4	1877.6	0	11025	Passeriformes	0.9718127	Passerellidae	0.9937961	SFHS	0.98466915	whtspa	0.9860293	whtspa	0.9860293	Y	2023-05-28
2636	2637.4	0	11025	Passeriformes	0.9705659	Passerellidae	0.99481416	SFHS	0.98870254	whtspa	0.9980825	whtspa	0.9980825	Y	2023-05-28
2657	2658.6	0	11025	Passeriformes	0.9673006	Passerellidae	0.99304295	SFHS	0.98752147	whtspa	0.99687374	whtspa	0.9968737	Y	2023-05-28
2663	2664.8	0	11025	Passeriformes	0.9717729	Passerellidae	0.99536705	SFHS	0.98983335	whtspa	0.998131	whtspa	0.998131	Y	2023-05-28
2733	2734.4	0	11025	Passeriformes	0.9679919	Passerellidae	0.9945773	SFHS	0.9879716	whtspa	0.99545455	whtspa	0.9954545	Y	2023-05-28
2750.8	2752.2	0	11025	Passeriformes	0.97171855	Passerellidae	0.99519086	SFHS	0.9896763	whtspa	0.9984295	whtspa	0.9984295	Y	2023-05-28
2754.8	2756.6	0	11025	Passeriformes	0.9704166	Passerellidae	0.99430555	SFHS	0.9877258	whtspa	0.99552876	whtspa	0.9955288	Y	2023-05-28
2770	2771.8	0	11025	Passeriformes	0.9673913	Passerellidae	0.99365824	SFHS	0.9862482	whtspa	0.99709225	whtspa	0.9970922	Y	2023-05-28
2777.4	2779.2	0	11025	Passeriformes	0.9634978	Passerellidae	0.988518	SFHS	0.9811179	whtspa	0.99323845	whtspa	0.9932384	Y	2023-05-28
2813.2	2815	0	11025	Passeriformes	0.9697028	Passerellidae	0.99513996	SFHS	0.9894588	whtspa	0.9982192	whtspa	0.9982192	Y	2023-05-28
83	86.2	0	11025	Passeriformes	0.9690215							Passeriformes	0.9690215	Y	2023-05-28
811.2	812.4	0	11025	Passeriformes	0.97129905	Parulidae	0.9549996	ZEEP	0.9588825	camwar	0.9987632	camwar	0.9987632	Y	2023-05-30
848.6	850.2	0	11025	Passeriformes	0.971041	Parulidae	0.9544806	ZEEP	0.9591773	camwar	0.99978846	camwar	0.9997885	Y	2023-05-30
885.4	886.8	0	11025	Passeriformes	0.9718398	Parulidae	0.95516855	ZEEP	0.9587835	camwar	0.99845743	camwar	0.9984574	Y	2023-05-30
901.2	903.2	0	11025	Passeriformes	0.9711456	Parulidae	0.95284337	ZEEP	0.9578137	camwar	0.9985411	camwar	0.9985411	Y	2023-05-30
913.4	915	0	11025	Passeriformes	0.9715915	Parulidae	0.9552175	ZEEP	0.9575244	camwar	0.9232636	camwar	0.9232636	Y	2023-05-30
926.6	928	0	11025	Passeriformes	0.9710489	Parulidae	0.95470965	ZEEP	0.9585993	camwar	0.99993455	camwar	0.9999346	Y	2023-05-30
948.2	949.6	0	11025	Passeriformes	0.97214884	Parulidae	0.95590955	ZEEP	0.9624386	camwar	0.99999917	camwar	0.9999992	Y	2023-05-30
964.8	967.4	0	11025	Passeriformes	0.97112423	Parulidae	0.95426935	ZEEP	0.95498353	camwar	0.99999917	camwar	0.9999992	Y	2023-05-30
1010.2	1011.8	0	11025	Passeriformes	0.97216886	Parulidae	0.9562897	ZEEP	0.9622825	camwar	0.99999976	camwar	0.9999998	Y	2023-05-30
1085.2	1086.4	0	11025	Passeriformes	0.9688116	Parulidae	0.94626105	ZEEP	0.9501831	camwar	0.98958606	camwar	0.9895861	Y	2023-05-30
1087.4	1088.8	0	11025	Passeriformes	0.97223264	Parulidae	0.9564811	ZEEP	0.9628366	camwar	0.9999989	camwar	0.9999989	Y	2023-05-30
1123.2	1124.4	0	11025	Passeriformes	0.9694812	Parulidae	0.95224476	ZEEP	0.9480389	camwar	0.9985964	camwar	0.9985964	Y	2023-05-30
1166.4	1167.6	0	11025	Passeriformes	0.97218794	Parulidae	0.9559758	ZEEP	0.9577817	camwar	0.99948776	camwar	0.9994878	Y	2023-05-30
1230	1231.4	0	11025	Passeriformes	0.97180027	Parulidae	0.95485526	ZEEP	0.960269	camwar	0.99987566	camwar	0.9998757	Y	2023-05-30
1252.8	1254	0	11025	Passeriformes	0.97185904	Parulidae	0.9554864	ZEEP	0.93968725	camwar	0.99886537	camwar	0.9988654	Y	2023-05-30
1274	1275.4	0	11025	Passeriformes	0.9721585	Parulidae	0.9563546	ZEEP	0.9622847	camwar	0.9999982	camwar	0.9999982	Y	2023-05-30
1297.6	1299.2	0	11025	Passeriformes	0.97222453	Parulidae	0.95643616	ZEEP	0.9627523	camwar	0.9999937	camwar	0.9999937	Y	2023-05-30
1453.8	1455.4	0	11025	Passeriformes	0.96450126	Parulidae	0.9448735	ZEEP	0.9265259	camwar	0.94738466	camwar	0.9473847	Y	2023-05-30
1473.2	1474.8	0	11025	Passeriformes	0.97183293	Parulidae	0.9558472	ZEEP	0.962089	camwar	0.9987631	camwar	0.9987631	Y	2023-05-30
1502.8	1504.4	0	11025	Passeriformes	0.96421593	Parulidae	0.94505703	ZEEP	0.9339548	camwar	0.99936754	camwar	0.9993675	Y	2023-05-30
1523	1524.2	0	11025	Passeriformes	0.971649	Parulidae	0.9551075	ZEEP	0.9535149	camwar	0.99927527	camwar	0.9992753	Y	2023-05-30
1568.6	1570.2	0	11025	Passeriformes	0.97150415	Parulidae	0.95496625	ZEEP	0.95697975	camwar	0.999153	camwar	0.999153	Y	2023-05-30
1573.2	1574.8	0	11025	Passeriformes	0.97165114	Parulidae	0.9549236	ZEEP	0.94267	camwar	0.9999701	camwar	0.9999701	Y	2023-05-30
1594.8	1596.6	0	11025	Passeriformes	0.9721973	Parulidae	0.9563391	ZEEP	0.96129113	camwar	0.99999964	camwar	0.9999996	Y	2023-05-30
1637	1638.4	0	11025	Passeriformes	0.9665051	Parulidae	0.94561434	ZEEP	0.93518525	camwar	0.8876679	camwar	0.8876679	Y	2023-05-30
1656	1657.4	0	11025	Passeriformes	0.9667927	Parulidae	0.94494987	ZEEP	0.89434487	camwar	0.98223084	camwar	0.9822308	Y	2023-05-30
1658.2	1659.6	0	11025	Passeriformes	0.96932286	Parulidae	0.9456008	ZEEP	0.950636	camwar	0.9998135	camwar	0.9998135	Y	2023-05-30
1729.6	1730.8	0	11025	Passeriformes	0.95456636	Parulidae	0.9339868	ZEEP	0.93765336	camwar	0.99600023	camwar	0.9960002	Y	2023-05-30
1762.6	1764.2	0	11025	Passeriformes	0.94418865	Parulidae	0.9327822	ZEEP	0.94142383	camwar	0.99852693	camwar	0.9985269	Y	2023-05-30
2113.2	2114.4	0	11025	Passeriformes	0.97080135	Parulidae	0.9548044	ZEEP	0.95711756	camwar	0.9991171	camwar	0.9991171	Y	2023-05-30
2242.8	2244.2	0	11025	Passeriformes	0.97201455	Parulidae	0.9557403	ZEEP	0.96241164	camwar	0.99936265	camwar	0.9993626	Y	2023-05-30
2262	2263.2	0	11025	Passeriformes	0.95188886	Parulidae	0.9344674	ZEEP	0.92226756	camwar	0.99932706	camwar	0.9993271	Y	2023-05-30
2273.4	2274.8	0	11025	Passeriformes	0.9699569	Parulidae	0.9538257	ZEEP	0.9592372	camwar	0.99998415	camwar	0.9999841	Y	2023-05-30
2583.4	2586	0	11025	Passeriformes	0.9718435	Sittidae	0.9844488			rebnt	0.9980388	rebnt	0.9980388	Y	2023-05-30
2606.6	2607.8	0	11025	Passeriformes	0.96377754	Sittidae	0.98301435			rebnt	0.99691135	rebnt	0.9969113	Y	2023-05-30
2628.8	2630.6	0	11025	Passeriformes	0.9720194	Sittidae	0.98446566			rebnt	0.9980616	rebnt	0.9980616	Y	2023-05-30
850.6	852	0	11025	Passeriformes	0.97176075	Passerellidae	0.9944332	SFHS	0.9888053	whtspa	0.9951696	whtspa	0.9951696	Y	2023-05-30

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
2559.6	2560.8	0	11025	Passeriformes	0.905869	Passerellidae	0.9815611	SFHS	0.9612398	whtspa	0.98799115	whtspa	0.9879912	Y	2023-05-30
547.6	549	0	11025	Passeriformes	0.96884537	Parulidae	0.9420655	ZEEP	0.92992646	camwar	0.96376306	camwar	0.9637631	Y	2023-05-31
551.8	553.6	0	11025	Passeriformes	0.9722091	Parulidae	0.95639974	ZEEP	0.9626999	camwar	0.99999976	camwar	0.9999998	Y	2023-05-31
576	577.4	0	11025	Passeriformes	0.97031677	Parulidae	0.95361435	ZEEP	0.9600928	camwar	0.99983966	camwar	0.9998397	Y	2023-05-31
581.2	582.6	0	11025	Passeriformes	0.9721423	Parulidae	0.95531654	ZEEP	0.9615989	camwar	0.99992764	camwar	0.9999276	Y	2023-05-31
583.6	585.4	0	11025	Passeriformes	0.97215444	Parulidae	0.9560641	ZEEP	0.96253866	camwar	0.9999993	camwar	0.9999993	Y	2023-05-31
721	722.4	0	11025	Passeriformes	0.97162086	Parulidae	0.95435961	ZEEP	0.95716405	camwar	0.99982125	camwar	0.9998212	Y	2023-05-31
734.8	736.4	0	11025	Passeriformes	0.9721982	Parulidae	0.9561763	ZEEP	0.9626703	camwar	0.9970401	camwar	0.9970401	Y	2023-05-31
740	742	0	11025	Passeriformes	0.9681761	Parulidae	0.9473667	ZEEP	0.94891095	camwar	0.98334354	camwar	0.9833435	Y	2023-05-31
768.6	770.2	0	11025	Passeriformes	0.9719663	Parulidae	0.95542496	ZEEP	0.9610733	camwar	0.99995923	camwar	0.9999592	Y	2023-05-31
790.4	791.6	0	11025	Passeriformes	0.9721264	Parulidae	0.9562081	ZEEP	0.96165085	camwar	0.99664766	camwar	0.9966477	Y	2023-05-31
817.4	819.2	0	11025	Passeriformes	0.9695886	Parulidae	0.95179164	ZEEP	0.9349976	camwar	0.9615502	camwar	0.9615502	Y	2023-05-31
862.4	864	0	11025	Passeriformes	0.9711802	Parulidae	0.95357174	ZEEP	0.9495811	camwar	0.9982658	camwar	0.9982658	Y	2023-05-31
948.8	950	0	11025	Passeriformes	0.96714514	Parulidae	0.94435155	ZEEP	0.93415684	camwar	0.9912781	camwar	0.9912781	Y	2023-05-31
979	980.4	0	11025	Passeriformes	0.9720624	Parulidae	0.95519865	ZEEP	0.95959747	camwar	0.99998283	camwar	0.9999828	Y	2023-05-31
980.6	982	0	11025	Passeriformes	0.9718332	Parulidae	0.9553155	ZEEP	0.96137565	camwar	0.9977933	camwar	0.9977933	Y	2023-05-31
986.4	987.8	0	11025	Passeriformes	0.94889975	Parulidae	0.8990062	ZEEP	0.92038137	camwar	0.9836927	camwar	0.9836927	Y	2023-05-31
1066.8	1068.2	0	11025	Passeriformes	0.9678522	Parulidae	0.9524355	ZEEP	0.9502491	camwar	0.99514765	camwar	0.9951476	Y	2023-05-31
1129.2	1130.8	0	11025	Passeriformes	0.96997774	Parulidae	0.95355713	ZEEP	0.9541337	camwar	0.9994067	camwar	0.9994067	Y	2023-05-31
1228.4	1230	0	11025	Passeriformes	0.96150213	Parulidae	0.9353703	ZEEP	0.9342428	camwar	0.9943605	camwar	0.9943605	Y	2023-05-31
1252.8	1254.4	0	11025	Passeriformes	0.97218645	Parulidae	0.9563037	ZEEP	0.95831144	camwar	0.9999962	camwar	0.9999962	Y	2023-05-31
1263.2	1265.4	0	11025	Passeriformes	0.96582943	Parulidae	0.94884986	ZEEP	0.9448949	camwar	0.999987	camwar	0.999987	Y	2023-05-31
1362.2	1363.8	0	11025	Passeriformes	0.97203153	Parulidae	0.95486754	ZEEP	0.9523879	camwar	0.9978842	camwar	0.9978842	Y	2023-05-31
1364.2	1365.8	0	11025	Passeriformes	0.9716789	Parulidae	0.9547544	ZEEP	0.9596225	camwar	0.9999993	camwar	0.9999993	Y	2023-05-31
1376.2	1377.8	0	11025	Passeriformes	0.9716016	Parulidae	0.95265734	ZEEP	0.9569566	camwar	0.99994326	camwar	0.9999433	Y	2023-05-31
1378.6	1380.2	0	11025	Passeriformes	0.97092295	Parulidae	0.9534574	ZEEP	0.95722896	camwar	0.99989164	camwar	0.9998916	Y	2023-05-31
1385.8	1387.2	0	11025	Passeriformes	0.97200567	Parulidae	0.955844	ZEEP	0.95335686	camwar	0.99985516	camwar	0.9998552	Y	2023-05-31
1401.8	1403.6	0	11025	Passeriformes	0.97203314	Parulidae	0.954738	ZEEP	0.9454081	camwar	0.9949203	camwar	0.9949203	Y	2023-05-31
1420.4	1421.6	0	11025	Passeriformes	0.9675454	Parulidae	0.9476232	ZEEP	0.95729405	camwar	0.9927126	camwar	0.9927126	Y	2023-05-31
1424.4	1425.8	0	11025	Passeriformes	0.9721789	Parulidae	0.95601577	ZEEP	0.9613361	camwar	0.999387	camwar	0.999387	Y	2023-05-31
1461.8	1463.2	0	11025	Passeriformes	0.9722063	Parulidae	0.9560832	ZEEP	0.95990205	camwar	0.9996531	camwar	0.9996531	Y	2023-05-31
1465.6	1466.8	0	11025	Passeriformes	0.9722091	Parulidae	0.95636016	ZEEP	0.9619124	camwar	0.98439425	camwar	0.9843943	Y	2023-05-31
1566.2	1567.4	0	11025	Passeriformes	0.9702158	Parulidae	0.9377737	ZEEP	0.9202717	camwar	0.92762476	camwar	0.9276248	Y	2023-05-31
1578.4	1580.2	0	11025	Passeriformes	0.9722366	Parulidae	0.95648426	ZEEP	0.9625995	camwar	0.9999863	camwar	0.9999863	Y	2023-05-31
1595	1597.2	0	11025	Passeriformes	0.9710733	Parulidae	0.95287406	ZEEP	0.93661296	camwar	0.9996462	camwar	0.9996462	Y	2023-05-31
1735.6	1736.8	0	11025	Passeriformes	0.97222906	Parulidae	0.95642865	ZEEP	0.9629844	camwar	0.9845218	camwar	0.9845218	Y	2023-05-31
1752.8	1754.4	0	11025	Passeriformes	0.9721148	Parulidae	0.9561396	ZEEP	0.95779634	camwar	0.87755585	camwar	0.8775558	Y	2023-05-31
1804.6	1806.2	0	11025	Passeriformes	0.9721195	Parulidae	0.9562305	ZEEP	0.9624186	camwar	0.9998927	camwar	0.9998927	Y	2023-05-31
1832	1833.4	0	11025	Passeriformes	0.9722134	Parulidae	0.9563198	ZEEP	0.9613505	camwar	0.99870896	camwar	0.998709	Y	2023-05-31
22.6	23.8	0	11025	Passeriformes	0.9721252	Parulidae	0.9557721	ZEEP	0.94678664	camwar	0.9902159	camwar	0.9902159	Y	2023-06-09
127.2	130.2	0	11025	Passeriformes	0.9722096	Parulidae	0.95644337	ZEEP	0.96124244	camwar	0.99994826	camwar	0.9999483	Y	2023-06-09
144.8	146	0	11025	Passeriformes	0.97171515	Parulidae	0.9547164	ZEEP	0.9511381	camwar	0.9950252	camwar	0.9950252	Y	2023-06-09
151.8	153.2	0	11025	Passeriformes	0.9717947	Parulidae	0.9549682	ZEEP	0.95560527	camwar	0.98591346	camwar	0.9859135	Y	2023-06-09
161.6	163.2	0	11025	Passeriformes	0.97222126	Parulidae	0.9564582	ZEEP	0.9607336	camwar	0.9995413	camwar	0.9995413	Y	2023-06-09
191.6	193	0	11025	Passeriformes	0.9721925	Parulidae	0.95639694	ZEEP	0.96061987	camwar	0.9998927	camwar	0.9998927	Y	2023-06-09
215.6	217	0	11025	Passeriformes	0.97223645	Parulidae	0.9564598	ZEEP	0.96269506	camwar	0.99998736	camwar	0.9999874	Y	2023-06-09
237.6	239	0	11025	Passeriformes	0.97216684	Parulidae	0.9563337	ZEEP	0.96049917	camwar	0.9999529	camwar	0.9999529	Y	2023-06-09
262.6	263.8	0	11025	Passeriformes	0.97188985	Parulidae	0.95575184	ZEEP	0.9579055	camwar	0.9807083	camwar	0.9807083	Y	2023-06-09
279.4	281	0	11025	Passeriformes	0.97222286	Parulidae	0.9564372	ZEEP	0.9630045	camwar	0.9999988	camwar	0.9999988	Y	2023-06-09
289.2	290.6	0	11025	Passeriformes	0.97217417	Parulidae	0.9561414	ZEEP	0.96086854	camwar	0.99962866	camwar	0.9996287	Y	2023-06-09
309.2	310.8	0	11025	Passeriformes	0.96669185	Parulidae	0.9449599	ZEEP	0.94669837	camwar	0.9803192	camwar	0.9803192	Y	2023-06-09
863.2	864.4	0	11025	Passeriformes	0.97217983	Parulidae	0.9556411	ZEEP	0.9596204	camwar	0.96490973	camwar	0.9649097	Y	2023-06-09
870	872	0	11025	Passeriformes	0.97218305	Parulidae	0.95611686	ZEEP	0.9615996	camwar	0.9996768	camwar	0.9996768	Y	2023-06-09
898	900.2	0	11025	Passeriformes	0.97223413	Parulidae	0.9563932	ZEEP	0.96017265	camwar	0.9999989	camwar	0.9999989	Y	2023-06-09
912.6	914	0	11025	Passeriformes	0.97220355	Parulidae	0.95642823	ZEEP	0.9624556	camwar	0.99999595	camwar	0.9999959	Y	2023-06-09
1078	1079.4	0	11025	Passeriformes	0.9722269	Parulidae	0.9562164	ZEEP	0.9623273	camwar	0.9999603	camwar	0.9999603	Y	2023-06-09
1099.4	1100.8	0	11025	Passeriformes	0.9720528	Parulidae	0.9551872	ZEEP	0.9348653	camwar	0.9926489	camwar	0.9926489	Y	2023-06-09

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1187.6	1189	0	11025	Passeriformes	0.97192895	Parulidae	0.95326215	ZEEP	0.9586176	camwar	0.9993463	camwar	0.9993463	Y	2023-06-09
1282.2	1283.6	0	11025	Passeriformes	0.97198594	Parulidae	0.95266783	ZEEP	0.9405678	camwar	0.9888719	camwar	0.9888719	Y	2023-06-09
1347.8	1349	0	11025	Passeriformes	0.97172695	Parulidae	0.9540789	ZEEP	0.95814013	camwar	0.99997985	camwar	0.9999799	Y	2023-06-09
1375.6	1376.8	0	11025	Passeriformes	0.9719374	Parulidae	0.95618904	ZEEP	0.95886767	camwar	0.9995552	camwar	0.9995552	Y	2023-06-09
1383.6	1385.4	0	11025	Passeriformes	0.9721848	Parulidae	0.95627576	ZEEP	0.95486146	camwar	0.9999987	camwar	0.9999987	Y	2023-06-09
1410	1411.4	0	11025	Passeriformes	0.9702794	Parulidae	0.9509108	ZEEP	0.9543027	camwar	0.9996301	camwar	0.9996301	Y	2023-06-09
1437.4	1439	0	11025	Passeriformes	0.9720924	Parulidae	0.9562134	ZEEP	0.96050525	camwar	0.999974	camwar	0.999974	Y	2023-06-09
1556.8	1558.6	0	11025	Passeriformes	0.97045934	Parulidae	0.9522437	ZEEP	0.9535493	camwar	0.99200696	camwar	0.992007	Y	2023-06-09
1819.8	1821	0	11025	Passeriformes	0.9586954	Passerellidae	0.9910164	SFHS	0.98349345	whtspa	0.99063194	whtspa	0.9906319	Y	2023-06-09
1841.8	1843.4	0	11025	Passeriformes	0.97175986	Passerellidae	0.99524915	SFHS	0.9897427	whtspa	0.9984125	whtspa	0.9984125	Y	2023-06-09
1846.4	1847.8	0	11025	Passeriformes	0.96813554	Passerellidae	0.99236053	SFHS	0.9807037	whtspa	0.9807581	whtspa	0.9807581	Y	2023-06-09
1848	1849.2	0	11025	Passeriformes	0.97089356	Passerellidae	0.99306047	SFHS	0.9871365	whtspa	0.99717027	whtspa	0.9971703	Y	2023-06-09
1849.4	1851.2	0	11025	Passeriformes	0.971998	Passerellidae	0.99528956	SFHS	0.9896784	whtspa	0.99801135	whtspa	0.9980114	Y	2023-06-09
181.2	182.6	0	11025	Passeriformes	0.97212064	Parulidae	0.9560076	ZEEP	0.9535916	camwar	0.9994931	camwar	0.9994931	Y	2023-06-10
505	506.4	0	11025	Passeriformes	0.97209495	Parulidae	0.95637524	ZEEP	0.9619439	camwar	0.98702323	camwar	0.9870232	Y	2023-06-10
549.2	550.8	0	11025	Passeriformes	0.9715631	Parulidae	0.9559642	ZEEP	0.9563072	camwar	0.999297	camwar	0.999297	Y	2023-06-10
588	589.2	0	11025	Passeriformes	0.9722148	Parulidae	0.95632833	ZEEP	0.95824623	camwar	0.9997526	camwar	0.9997526	Y	2023-06-10
589.4	590.8	0	11025	Passeriformes	0.97175306	Parulidae	0.9559634	ZEEP	0.95695937	camwar	0.9992368	camwar	0.9992368	Y	2023-06-10
607.8	609.2	0	11025	Passeriformes	0.9716842	Parulidae	0.9554125	ZEEP	0.9424556	camwar	0.999281	camwar	0.999281	Y	2023-06-10
615.8	617.2	0	11025	Passeriformes	0.9721243	Parulidae	0.9561771	ZEEP	0.9521048	camwar	0.9990866	camwar	0.9990866	Y	2023-06-10
642.4	643.8	0	11025	Passeriformes	0.9722148	Parulidae	0.9564193	ZEEP	0.95782024	camwar	0.9998491	camwar	0.9998491	Y	2023-06-10
704.4	705.6	0	11025	Passeriformes	0.9722292	Parulidae	0.9564564	ZEEP	0.96185833	camwar	0.99999857	camwar	0.9999986	Y	2023-06-10
758.8	760	0	11025	Passeriformes	0.9722138	Parulidae	0.9562976	ZEEP	0.96268666	camwar	0.99997866	camwar	0.9999787	Y	2023-06-10
762	763.6	0	11025	Passeriformes	0.97168237	Parulidae	0.9554022	ZEEP	0.9574295	camwar	0.99825937	camwar	0.9982594	Y	2023-06-10
773.2	774.6	0	11025	Passeriformes	0.97223455	Parulidae	0.95644814	ZEEP	0.962848	camwar	0.9963566	camwar	0.9963566	Y	2023-06-10
1129.4	1131.2	0	11025	Passeriformes	0.97216594	Parulidae	0.9561321	ZEEP	0.96210414	camwar	0.9999924	camwar	0.9999924	Y	2023-06-10
1297.8	1299	0	11025	Passeriformes	0.97218406	Parulidae	0.9563207	ZEEP	0.9621891	camwar	0.99998474	camwar	0.9999847	Y	2023-06-10
1321.6	1323.2	0	11025	Passeriformes	0.9722262	Parulidae	0.956444	ZEEP	0.96284246	camwar	0.9999993	camwar	0.9999993	Y	2023-06-10
1350	1351.4	0	11025	Passeriformes	0.9717076	Parulidae	0.95506084	ZEEP	0.9575095	camwar	0.97609633	camwar	0.9760963	Y	2023-06-10
1564	1565.8	0	11025	Passeriformes	0.97139716	Parulidae	0.9550397	ZEEP	0.95424277	camwar	0.962766	camwar	0.962766	Y	2023-06-10
1581.6	1583	0	11025	Passeriformes	0.9721638	Parulidae	0.95578855	ZEEP	0.9599024	camwar	0.99999845	camwar	0.9999985	Y	2023-06-10
1379	1380.8	0	11025	Passeriformes	0.97205293	Passerellidae	0.9949122	SFHS	0.98811907	whtspa	0.99443555	whtspa	0.9944355	Y	2023-06-10
1539.2	1540.6	0	11025	Passeriformes	0.9670123	Passerellidae	0.98970234	SFHS	0.9857998	whtspa	0.9884792	whtspa	0.9884792	Y	2023-06-10
1574.6	1576	0	11025	Passeriformes	0.9718114	Passerellidae	0.99526155	SFHS	0.9890314	whtspa	0.9972886	whtspa	0.9972886	Y	2023-06-10
1579.8	1581.4	0	11025	Passeriformes	0.9720919	Passerellidae	0.995402	SFHS	0.98926485	whtspa	0.98256934	whtspa	0.9825693	Y	2023-06-10
1721.8	1723.2	0	11025	Passeriformes	0.9708193	Passerellidae	0.994433	SFHS	0.9858867	whtspa	0.9841809	whtspa	0.9841809	Y	2023-06-10
533.4	535.6	0	11025	Passeriformes	0.9720843	Parulidae	0.9562907	ZEEP	0.9580088	camwar	0.9999994	camwar	0.9999994	Y	2023-06-15
540.4	543.2	0	11025	Passeriformes	0.97121584	Parulidae	0.9548018	ZEEP	0.9481567	camwar	0.9997806	camwar	0.9997806	Y	2023-06-15
554	555.6	0	11025	Passeriformes	0.972153	Parulidae	0.9561425	ZEEP	0.96270376	camwar	0.9999577	camwar	0.9999577	Y	2023-06-15
565	567	0	11025	Passeriformes	0.97203845	Parulidae	0.9559235	ZEEP	0.96078277	camwar	0.99999714	camwar	0.9999971	Y	2023-06-15
569.8	571	0	11025	Passeriformes	0.96544105	Parulidae	0.9490167	ZEEP	0.9156328	camwar	0.9986332	camwar	0.9986332	Y	2023-06-15
578.6	580.2	0	11025	Passeriformes	0.96905273	Parulidae	0.95376813	ZEEP	0.94398683	camwar	0.999729	camwar	0.999729	Y	2023-06-15
580.6	582.2	0	11025	Passeriformes	0.9722115	Parulidae	0.95643103	ZEEP	0.9627784	camwar	0.99999976	camwar	0.9999998	Y	2023-06-15
587.2	589.8	0	11025	Passeriformes	0.972063	Parulidae	0.9557697	ZEEP	0.95457625	camwar	0.9999509	camwar	0.9999509	Y	2023-06-15
615	616.4	0	11025	Passeriformes	0.9655838	Parulidae	0.9414911	ZEEP	0.87217474	camwar	0.94999665	camwar	0.9499967	Y	2023-06-15
616.6	618	0	11025	Passeriformes	0.9721409	Parulidae	0.95592153	ZEEP	0.96126944	camwar	0.9999975	camwar	0.9999975	Y	2023-06-15
619.6	621	0	11025	Passeriformes	0.95168	Parulidae	0.9309642	ZEEP	0.93616027	camwar	0.9954881	camwar	0.9954881	Y	2023-06-15
621.2	623	0	11025	Passeriformes	0.9717472	Parulidae	0.955432	ZEEP	0.9600353	camwar	0.9999579	camwar	0.9999579	Y	2023-06-15
38.4	39.8	0	11025	Passeriformes	0.96902696	Parulidae	0.9556877			amered	0.900111	amered	0.900111	Y	2023-06-17
157.2	159	0	11025	Passeriformes	0.9722268	Parulidae	0.95506305	ZEEP	0.9576359	camwar	0.99999	camwar	0.99999	Y	2023-06-17
355.2	356.8	0	11025	Passeriformes	0.9699321	Parulidae	0.9531907	ZEEP	0.9368796	camwar	0.9995136	camwar	0.9995136	Y	2023-06-17
403.4	404.8	0	11025	Passeriformes	0.9694614	Parulidae	0.9513005	ZEEP	0.9560354	camwar	0.99902165	camwar	0.9990216	Y	2023-06-17
545.8	547.6	0	11025	Passeriformes	0.96979403	Parulidae	0.95108956	ZEEP	0.9376192	camwar	0.99553204	camwar	0.995532	Y	2023-06-17
579.4	581.2	0	11025	Passeriformes	0.9720181	Parulidae	0.95609576	ZEEP	0.958054	camwar	0.97455084	camwar	0.9745508	Y	2023-06-17
600.8	602.4	0	11025	Passeriformes	0.9722135	Parulidae	0.9562734	ZEEP	0.96134865	camwar	0.9999995	camwar	0.9999995	Y	2023-06-17
1413	1414.2	0	11025	Passeriformes	0.9583802	Parulidae	0.92280203	ZEEP	0.88265795	camwar	0.9832259	camwar	0.9832259	Y	2023-06-17
336.8	338	0	11025	Passeriformes	0.9625624	Passerellidae	0.9689159	SFHS	0.96096045	whtspa	0.98865813	whtspa	0.9886581	Y	2023-06-17



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
3467.2	3468.4	0	11025	Passeriformes	0.97219694	Parulidae	0.95629877	ZEEP	0.9626979	camwar	0.9974318	camwar	0.9974318	Y	2023-06-24
1603.8	1605.4	0	11025	Passeriformes	0.9590542	Turdidae	0.93739843	THSH	0.9116556	herthr	0.9999938	herthr	0.9999938	Y	2023-06-24
153.2	154.4	0	11025	Passeriformes	0.95194954	Parulidae	0.8650692	ZEEP	0.83814764	camwar	0.9998153	camwar	0.9998153	Y	2023-06-24
291.6	293.2	0	11025	Passeriformes	0.9721572	Parulidae	0.9562764	ZEEP	0.96027213	camwar	0.9999306	camwar	0.9999306	Y	2023-06-24
760	761.4	0	11025	Passeriformes	0.97148794	Parulidae	0.95542735	ZEEP	0.9597653	camwar	0.9999604	camwar	0.9999604	Y	2023-06-24
492	493.8	0	11025	Passeriformes	0.9719149	Turdidae	0.94763887	GCBI	0.9997135	gycthr	0.99999356	gycthr	0.9999936	Y	2023-06-24
1424.6	1425.8	0	11025	Passeriformes	0.9644439	Turdidae	0.9449908	THSH	0.9243748	herthr	0.999995	herthr	0.999995	Y	2023-06-24
1908.4	1910	0	11025	Cuculiformes	0.9852342	Cuculidae	0.9796936			yebcuc	0.9799554	yebcuc	0.9799554	Y	2023-06-24
864.8	866.8	0	11025	Passeriformes	0.971787	Parulidae	0.952087	ZEEP	0.9575831	camwar	0.83350104	camwar	0.833501	Y	2023-06-25
1505.4	1507	0	11025	Passeriformes	0.9722014	Parulidae	0.9562413	ZEEP	0.96259254	camwar	0.99986553	camwar	0.9998655	Y	2023-06-25
1276.4	1277.8	0	11025	Passeriformes	0.9613318	Sittidae	0.9829767			rebnut	0.9966882	rebnut	0.9966882	Y	2023-06-25
1285.6	1287.6	0	11025	Passeriformes	0.9491044	Sittidae	0.97898346			rebnut	0.99235123	rebnut	0.9923512	Y	2023-06-25
1294.2	1296	0	11025	Passeriformes	0.9716101	Sittidae	0.9843795			rebnut	0.99799925	rebnut	0.9979993	Y	2023-06-25
1297	1298.4	0	11025	Passeriformes	0.9012072	Sittidae	0.9555295			rebnut	0.9372671	rebnut	0.9372671	Y	2023-06-25
1301.4	1302.6	0	11025	Passeriformes	0.95603275	Sittidae	0.97915137			rebnut	0.99283326	rebnut	0.9928333	Y	2023-06-25
1304.4	1306.2	0	11025	Passeriformes	0.9663362	Sittidae	0.9792684			rebnut	0.99166507	rebnut	0.9916651	Y	2023-06-25
1313.4	1314.6	0	11025	Passeriformes	0.96662295	Sittidae	0.9818423			rebnut	0.9960174	rebnut	0.9960174	Y	2023-06-25
1318.8	1320.2	0	11025	Passeriformes	0.97189385	Sittidae	0.98436236			rebnut	0.99799275	rebnut	0.9979928	Y	2023-06-25
1336	1337.4	0	11025	Passeriformes	0.96756786	Sittidae	0.9801502			rebnut	0.99533796	rebnut	0.995338	Y	2023-06-25
110	111.6	0	11025	Passeriformes	0.9717923	Passerellidae	0.9951609	SFHS	0.9883199	whtspa	0.99784267	whtspa	0.9978427	Y	2023-06-25
116	117.8	0	11025	Passeriformes	0.9720418	Passerellidae	0.9937504	SFHS	0.9857329	whtspa	0.99146605	whtspa	0.991466	Y	2023-06-25
1086	1087.4	0	11025	Passeriformes	0.94571626	Passerellidae	0.9570099	SFHS	0.93736744	whtspa	0.95310044	whtspa	0.9531004	Y	2023-06-25
1559	1560.4	0	11025	Passeriformes	0.9702298	Turdidae	0.9558202	THSH	0.94154537	herthr	0.9999989	herthr	0.9999989	Y	2023-07-01
130.6	132.4	0	11025	Passeriformes	0.9663774	Parulidae	0.9557533			amered	0.8991683	amered	0.8991683	Y	2023-07-02
1621.6	1623	0	11025	Passeriformes	0.9703966	Parulidae	0.9541781	ZEEP	0.9534983	camwar	0.9985482	camwar	0.9985482	Y	2023-07-02
1779.8	1781.2	0	11025	Passeriformes	0.96509904	Parulidae	0.93820393	ZEEP	0.93790793	camwar	0.99994266	camwar	0.9999427	Y	2023-07-02
317.6	319	0	11025	Passeriformes	0.96690005	Parulidae	0.9509537	ZEEP	0.9454902	camwar	0.9765846	camwar	0.9765846	Y	2023-07-05
1732	1733.6	0	11025	Passeriformes	0.963954	Turdidae	0.93470967	THSH	0.9171063	herthr	0.99999595	herthr	0.9999959	Y	2023-07-05
1764.6	1766	0	11025	Passeriformes	0.96348655	Turdidae	0.94854987	THSH	0.9286961	herthr	0.999997	herthr	0.999997	Y	2023-07-05
2312.6	2314	0	11025	Passeriformes	0.9612878	Turdidae	0.94261944	THSH	0.92239904	herthr	0.99999845	herthr	0.9999985	Y	2023-07-05
2557.4	2558.8	0	11025	Passeriformes	0.9717748	Turdidae	0.95908684	THSH	0.94619584	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2563	2564.6	0	11025	Passeriformes	0.9639337	Turdidae	0.94726974	THSH	0.9292545	herthr	0.99999833	herthr	0.9999983	Y	2023-07-05
2570.8	2572	0	11025	Passeriformes	0.9714722	Turdidae	0.9585398	THSH	0.9452271	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2574	2575.6	0	11025	Passeriformes	0.9291557	Turdidae	0.9053357	THSH	0.87251455	herthr	0.9999912	herthr	0.9999912	Y	2023-07-05
2582.4	2584	0	11025	Passeriformes	0.97197807	Turdidae	0.95909476	THSH	0.9461524	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2586.4	2588	0	11025	Passeriformes	0.9720814	Turdidae	0.9593773	THSH	0.94661427	herthr	0.99999905	herthr	0.999999	Y	2023-07-05
2592	2593.8	0	11025	Passeriformes	0.9718623	Turdidae	0.9588905	THSH	0.94591534	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2598	2599.8	0	11025	Passeriformes	0.9698368	Turdidae	0.95656604	THSH	0.9418519	herthr	0.9999988	herthr	0.9999988	Y	2023-07-05
2605.4	2607.4	0	11025	Passeriformes	0.97082996	Turdidae	0.9579325	THSH	0.9439211	herthr	0.9999925	herthr	0.9999925	Y	2023-07-05
2613.2	2614.6	0	11025	Passeriformes	0.9716186	Turdidae	0.95754933	THSH	0.9437631	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2624.2	2625.8	0	11025	Passeriformes	0.9699303	Turdidae	0.95636725	THSH	0.9422632	herthr	0.9999987	herthr	0.9999987	Y	2023-07-05
2690.8	2692.4	0	11025	Passeriformes	0.9719049	Turdidae	0.9589314	THSH	0.9456879	herthr	0.9999988	herthr	0.9999988	Y	2023-07-05
2695.4	2697.2	0	11025	Passeriformes	0.9720848	Turdidae	0.9592723	THSH	0.94648653	herthr	0.99999905	herthr	0.999999	Y	2023-07-05
2700	2701.8	0	11025	Passeriformes	0.97199064	Turdidae	0.9590832	THSH	0.9461811	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2704.4	2706.2	0	11025	Passeriformes	0.97194123	Turdidae	0.9591761	THSH	0.9463686	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2707.8	2709.4	0	11025	Passeriformes	0.97205544	Turdidae	0.9594771	THSH	0.94673866	herthr	0.99999905	herthr	0.999999	Y	2023-07-05
2711.8	2713.6	0	11025	Passeriformes	0.97212213	Turdidae	0.9595012	THSH	0.94672894	herthr	0.99999905	herthr	0.999999	Y	2023-07-05
2716.8	2718.4	0	11025	Passeriformes	0.97213066	Turdidae	0.959619	THSH	0.94693327	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2729	2730.6	0	11025	Passeriformes	0.9721334	Turdidae	0.95948	THSH	0.9467662	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2733.2	2735	0	11025	Passeriformes	0.97215456	Turdidae	0.9595948	THSH	0.94690084	herthr	0.99999905	herthr	0.999999	Y	2023-07-05
2738.4	2740	0	11025	Passeriformes	0.9715452	Turdidae	0.9589126	THSH	0.94585025	herthr	0.9999989	herthr	0.9999989	Y	2023-07-05
2746.2	2747.6	0	11025	Passeriformes	0.9719763	Turdidae	0.9591998	THSH	0.9465216	herthr	0.9999988	herthr	0.9999988	Y	2023-07-05
2748.8	2750.4	0	11025	Passeriformes	0.9707007	Turdidae	0.95768595	THSH	0.94422156	herthr	0.9999974	herthr	0.9999974	Y	2023-07-05
2877	2878.4	0	11025	Passeriformes	0.9181583	Turdidae	0.88357306	THSH	0.83329517	herthr	0.9999782	herthr	0.9999782	Y	2023-07-05
1213	1214.2	0	11025	Passeriformes	0.97207433	Parulidae	0.955523	ZEEP	0.96063185	camwar	0.99996495	camwar	0.999965	Y	2023-07-06
1773.6	1775.2	0	11025	Passeriformes	0.97134566	Turdidae	0.95847183	THSH	0.9456975	herthr	0.99999833	herthr	0.9999983	Y	2023-07-06
1929	1930.4	0	11025	Passeriformes	0.9458268	Turdidae	0.92648387	THSH	0.897475	herthr	0.9999976	herthr	0.9999976	Y	2023-07-06

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
1695.2	1696.8	0	11025	Passeriformes	0.94804615	Sittidae	0.9708118			rebnut	0.9833339	rebnut	0.9833339	Y	2023-07-06
19.6	21.2	0	11025	Passeriformes	0.9721933	Parulidae	0.9563641			amered	0.9032688	amered	0.9032688	Y	2023-08-22
184.8	186.4	0	11025	Passeriformes	0.97074425	Parulidae	0.9546353			amered	0.8849752	amered	0.8849752	Y	2023-08-22
279.8	281.4	0	11025	Passeriformes	0.9591897	Parulidae	0.9272783			amered	0.8864356	amered	0.8864356	Y	2023-08-22
285.4	287	0	11025	Passeriformes	0.97212	Parulidae	0.9562965			amered	0.9030974	amered	0.9030974	Y	2023-08-22
314.6	316.4	0	11025	Passeriformes	0.9722055	Parulidae	0.9564641			amered	0.9027248	amered	0.9027248	Y	2023-08-22
421.4	423.2	0	11025	Passeriformes	0.9700177	Parulidae	0.9531503			amered	0.8995588	amered	0.8995588	Y	2023-08-22
427.8	429.6	0	11025	Passeriformes	0.9721361	Parulidae	0.9562623			amered	0.90237236	amered	0.9023724	Y	2023-08-22
444.6	446	0	11025	Passeriformes	0.9613472	Parulidae	0.9522655			amered	0.8949547	amered	0.8949547	Y	2023-08-22
503.6	505.4	0	11025	Passeriformes	0.97049385	Parulidae	0.9530724			amered	0.89852077	amered	0.8985208	Y	2023-08-22
566.6	568.2	0	11025	Passeriformes	0.97222024	Parulidae	0.9564183			amered	0.90329206	amered	0.9032921	Y	2023-08-22
686.6	688.4	0	11025	Passeriformes	0.9719241	Parulidae	0.95505315			amered	0.9013481	amered	0.9013481	Y	2023-08-22
715.8	717.4	0	11025	Passeriformes	0.9720283	Parulidae	0.95619076			amered	0.89808524	amered	0.8980852	Y	2023-08-22
906	907.8	0	11025	Passeriformes	0.9722268	Parulidae	0.9564405			amered	0.90313	amered	0.90313	Y	2023-08-22
1003.6	1005.2	0	11025	Passeriformes	0.97187966	Parulidae	0.9560642			amered	0.9016426	amered	0.9016426	Y	2023-08-22
1050.8	1052.4	0	11025	Passeriformes	0.97074205	Parulidae	0.9558443			amered	0.89900285	amered	0.8990029	Y	2023-08-22
1104.6	1106.4	0	11025	Passeriformes	0.9438916	Parulidae	0.92615867			amered	0.84359854	amered	0.8435985	Y	2023-08-22
1120.4	1122.2	0	11025	Passeriformes	0.97210014	Parulidae	0.956266			amered	0.90295595	amered	0.9029559	Y	2023-08-22
1127.4	1129	0	11025	Passeriformes	0.9722163	Parulidae	0.9562713			amered	0.90304625	amered	0.9030463	Y	2023-08-22
1217	1218.4	0	11025	Passeriformes	0.9709419	Parulidae	0.95403254			amered	0.9007584	amered	0.9007584	Y	2023-08-22
1373.4	1375	0	11025	Passeriformes	0.9719685	Parulidae	0.95618457			amered	0.9029085	amered	0.9029085	Y	2023-08-22
1517.8	1519.4	0	11025	Passeriformes	0.97219807	Parulidae	0.95640814			amered	0.90312296	amered	0.903123	Y	2023-08-22
1617.6	1619.2	0	11025	Passeriformes	0.9708124	Parulidae	0.95389694			amered	0.9001297	amered	0.9001297	Y	2023-08-22
1886.2	1888	0	11025	Passeriformes	0.97219557	Parulidae	0.95642066			amered	0.90290016	amered	0.9029002	Y	2023-08-22
2014	2015.2	0	11025	Passeriformes	0.9608877	Parulidae	0.9415492			amered	0.8848407	amered	0.8848407	Y	2023-08-22
2017.6	2019	0	11025	Passeriformes	0.97025764	Parulidae	0.94661355			amered	0.89271235	amered	0.8927124	Y	2023-08-22
2116.6	2118.4	0	11025	Passeriformes	0.9713685	Parulidae	0.9539729			amered	0.9005959	amered	0.9005959	Y	2023-08-22
2392.6	2394.4	0	11025	Passeriformes	0.97194856	Parulidae	0.9562505			amered	0.9025633	amered	0.9025633	Y	2023-08-22
2403.8	2405.6	0	11025	Passeriformes	0.9719177	Parulidae	0.9561466			amered	0.90201765	amered	0.9020177	Y	2023-08-22
2425.8	2427.6	0	11025	Passeriformes	0.9721342	Parulidae	0.95617706			amered	0.90186036	amered	0.9018604	Y	2023-08-22
2507.4	2509	0	11025	Passeriformes	0.9686807	Parulidae	0.95082104			amered	0.8972392	amered	0.8972392	Y	2023-08-22
2644	2645.8	0	11025	Passeriformes	0.9718642	Parulidae	0.95578176			amered	0.90240043	amered	0.9024004	Y	2023-08-22
2718.6	2719.8	0	11025	Passeriformes	0.9693108	Parulidae	0.94052833			amered	0.81934404	amered	0.819344	Y	2023-08-22
3054.4	3056.2	0	11025	Passeriformes	0.97222465	Parulidae	0.95644695			amered	0.90318674	amered	0.9031867	Y	2023-08-22
3079.4	3081	0	11025	Passeriformes	0.9721953	Parulidae	0.9563532			amered	0.9027921	amered	0.9027921	Y	2023-08-23
3085	3086.6	0	11025	Passeriformes	0.9721342	Parulidae	0.9562734			amered	0.902927	amered	0.902927	Y	2023-08-23
3204.6	3206.4	0	11025	Passeriformes	0.9721923	Parulidae	0.9564099			amered	0.9031248	amered	0.9031248	Y	2023-08-23
3315.6	3317.2	0	11025	Passeriformes	0.97222215	Parulidae	0.9564372			amered	0.90322655	amered	0.9032266	Y	2023-08-23
3563.4	3565.2	0	11025	Passeriformes	0.970478	Parulidae	0.9535787			amered	0.9020354	amered	0.9020354	Y	2023-08-23
3584.2	3585.6	0	11025	Passeriformes	0.9683357	Parulidae	0.9539718			amered	0.86261195	amered	0.8626119	Y	2023-08-23
3586.8	3588.6	0	11025	Passeriformes	0.97049844	Parulidae	0.9546144			amered	0.9013916	amered	0.9013916	Y	2023-08-23
278.8	280.6	0	11025	Passeriformes	0.9722378	Parulidae	0.95649594			bawwar	0.9999999	bawwar	0.9999999	Y	2023-08-22
732.4	733.8	0	11025	Passeriformes	0.9721156	Parulidae	0.95545256			bawwar	0.97159606	bawwar	0.9715961	Y	2023-08-22
770	771.8	0	11025	Passeriformes	0.97193325	Parulidae	0.95152366			bawwar	0.9999993	bawwar	0.9999993	Y	2023-08-22
2029.2	2030.8	0	11025	Passeriformes	0.9722253	Parulidae	0.9564436			bawwar	0.9999995	bawwar	0.9999995	Y	2023-08-22
2874	2875.6	0	11025	Passeriformes	0.97223264	Parulidae	0.9563521			bawwar	0.9999995	bawwar	0.9999995	Y	2023-08-22
851.8	853.6	0	11025	Passeriformes	0.9595765	Parulidae	0.9504013	SBUF	0.9318225	btbwar	0.8770232	btbwar	0.8770232	Y	2023-08-22
1159.2	1160.8	0	11025	Passeriformes	0.96330506	Parulidae	0.94374007	BZWA	0.9386395	chswar	0.94893426	chswar	0.9489343	Y	2023-08-22
1166.8	1168.2	0	11025	Passeriformes	0.9688718	Parulidae	0.95011705	BZWA	0.9615621	chswar	0.95472974	chswar	0.9547297	Y	2023-08-22
1614.2	1615.8	0	11025	Passeriformes	0.9412115	Parulidae	0.88388884	BZWA	0.9736365	chswar	0.93659055	chswar	0.9365906	Y	2023-08-22
2414.8	2416.2	0	11025	Passeriformes	0.9719438	Parulidae	0.9549528	BZWA	0.9703397	chswar	0.962155	chswar	0.962155	Y	2023-08-22
3285.6	3287.2	0	11025	Passeriformes	0.9695674	Parulidae	0.945689	BZWA	0.97889245	chswar	0.9656474	chswar	0.9656474	Y	2023-08-23
3297	3298.6	0	11025	Passeriformes	0.97082615	Parulidae	0.9346345	BZWA	0.9795674	chswar	0.9681386	chswar	0.9681386	Y	2023-08-23
3029.8	3031.2	0	11025	Passeriformes	0.97221553	Parulidae	0.9563708	DBUP	0.9564385	naswar	0.83536893	naswar	0.8353689	Y	2023-08-22
522.4	524	0	11025	Passeriformes	0.9717981	Parulidae	0.95151377	ZEEP	0.954371	norwat	0.9996481	norwat	0.9996481	Y	2023-08-22
1177.8	1179.2	0	11025	Passeriformes	0.97174263	Parulidae	0.95177996	ZEEP	0.9485873	norwat	0.999752	norwat	0.999752	Y	2023-08-22
2461.2	2462.4	0	11025	Passeriformes	0.9714931	Parulidae	0.95289695	ZEEP	0.96123946	norwat	0.9999964	norwat	0.9999964	Y	2023-08-22

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
208.6	210.4	0	11025	Passeriformes	0.9722312	Parulidae	0.95643747	SBUF	0.94155496	ovenbi1	0.985062	ovenbi1	0.985062	Y	2023-08-22
920	921.8	0	11025	Passeriformes	0.97223276	Parulidae	0.95647573	SBUF	0.9406418	ovenbi1	0.98050964	ovenbi1	0.9805096	Y	2023-08-22
1111.4	1113.2	0	11025	Passeriformes	0.9721982	Parulidae	0.95640326	SBUF	0.94089305	ovenbi1	0.98407876	ovenbi1	0.9840788	Y	2023-08-22
1841.8	1843.2	0	11025	Passeriformes	0.9719792	Parulidae	0.9517351	SBUF	0.9215763	ovenbi1	0.9635141	ovenbi1	0.9635141	Y	2023-08-22
2430.4	2432.2	0	11025	Passeriformes	0.9720659	Parulidae	0.9542315	SBUF	0.93028367	ovenbi1	0.97290957	ovenbi1	0.9729096	Y	2023-08-22
2751.6	2753.4	0	11025	Passeriformes	0.9715486	Parulidae	0.9539551	SBUF	0.9234662	ovenbi1	0.9797473	ovenbi1	0.9797473	Y	2023-08-22
797.8	799.6	0	11025	Passeriformes	0.9711558	Cardinalidae	0.99381965	GROS	0.9984883	robgro	0.9995161	robgro	0.9995161	Y	2023-08-22
2662.2	2663.6	0	11025	Passeriformes	0.9712269	Turdidae	0.957903	THSH	0.94398665	swathr	0.8489924	swathr	0.8489924	Y	2023-08-22
45.6	47.4	0	11025	Passeriformes	0.97222173	Parulidae	0.9562164			bawwar	0.9999968	bawwar	0.9999968	Y	2023-08-23
610	611.8	0	11025	Passeriformes	0.97223693	Parulidae	0.9564869			bawwar	0.9999999	bawwar	0.9999999	Y	2023-08-23
1804.6	1806.2	0	11025	Passeriformes	0.97223127	Parulidae	0.9564364			bawwar	0.9999944	bawwar	0.9999944	Y	2023-08-23
287.8	289.2	0	11025	Passeriformes	0.9715991	Parulidae	0.9474751			canwar	0.9923057	canwar	0.9923057	Y	2023-08-23
312.2	314	0	11025	Passeriformes	0.9722322	Parulidae	0.9562939			canwar	0.99801457	canwar	0.9980146	Y	2023-08-23
1064.2	1066	0	11025	Passeriformes	0.97223175	Parulidae	0.9563011			canwar	0.99799806	canwar	0.9979981	Y	2023-08-23
1451.2	1453	0	11025	Passeriformes	0.97087497	Parulidae	0.9448068			canwar	0.99560744	canwar	0.9956074	Y	2023-08-23
2319	2320.6	0	11025	Passeriformes	0.9714301	Parulidae	0.9488374			canwar	0.9942245	canwar	0.9942245	Y	2023-08-23
3154.8	3156.6	0	11025	Passeriformes	0.9721948	Parulidae	0.95605487			canwar	0.99694014	canwar	0.9969401	Y	2023-08-23
3429	3430.8	0	11025	Passeriformes	0.9718949	Parulidae	0.9512083			canwar	0.99568605	canwar	0.9956861	Y	2023-08-23
318	319.8	0	11025	Passeriformes	0.9720429	Parulidae	0.95548826	BZWA	0.9808462	chswar	0.96655667	chswar	0.9665567	Y	2023-08-23
1413.2	1415	0	11025	Passeriformes	0.97208554	Parulidae	0.9548417	BZWA	0.9826177	chswar	0.9684361	chswar	0.9684361	Y	2023-08-23
1685.4	1687	0	11025	Passeriformes	0.97190666	Parulidae	0.9543445	BZWA	0.98240775	chswar	0.9656304	chswar	0.9656304	Y	2023-08-23
1808.2	1810	0	11025	Passeriformes	0.82303315	Parulidae	0.80075955	BZWA	0.95038897	chswar	0.92792004	chswar	0.92792	Y	2023-08-23
2297.6	2299	0	11025	Passeriformes	0.9563783	Parulidae	0.93297327	BZWA	0.96791613	chswar	0.88136005	chswar	0.8813601	Y	2023-08-23
2682	2683.6	0	11025	Passeriformes	0.97069	Parulidae	0.9527226	BZWA	0.98044306	chswar	0.9662429	chswar	0.9662429	Y	2023-08-23
3461.4	3462.8	0	11025	Passeriformes	0.96755165	Parulidae	0.9482014	BZWA	0.9805561	chswar	0.93727714	chswar	0.9372771	Y	2023-08-23
1574.6	1576.2	0	11025	Passeriformes	0.97221035	Parulidae	0.9562535	BZWA	0.9828761	hoowar	0.9455362	hoowar	0.9455362	Y	2023-08-23
1586	1587.6	0	11025	Passeriformes	0.97220516	Parulidae	0.95607054	BZWA	0.9827559	hoowar	0.90817213	hoowar	0.9081721	Y	2023-08-23
1618.4	1620	0	11025	Passeriformes	0.9711429	Parulidae	0.9534749	BZWA	0.97823787	hoowar	0.88914174	hoowar	0.8891417	Y	2023-08-23
1515.2	1516.8	0	11025	Passeriformes	0.97073674	Parulidae	0.94517547	ZEEP	0.93531036	norwat	0.9999925	norwat	0.9999925	Y	2023-08-23
378.8	380.2	0	11025	Passeriformes	0.9719214	Parulidae	0.95385534	SBUF	0.8874891	ovenbi1	0.95730925	ovenbi1	0.9573092	Y	2023-08-23
941.4	943.2	0	11025	Passeriformes	0.9721953	Parulidae	0.9557707	SBUF	0.9364608	ovenbi1	0.94611347	ovenbi1	0.9461135	Y	2023-08-23
2279	2280.4	0	11025	Passeriformes	0.9712875	Parulidae	0.9547077	SBUF	0.8671575	ovenbi1	0.9491801	ovenbi1	0.9491801	Y	2023-08-23
2527.4	2529.2	0	11025	Passeriformes	0.97221935	Parulidae	0.95613104	SBUF	0.9369786	ovenbi1	0.972659	ovenbi1	0.972659	Y	2023-08-23
2751.6	2753.4	0	11025	Passeriformes	0.97138274	Passerellidae	0.99474055	DESP	0.9898859	savspa	0.9968436	savspa	0.9968436	Y	2023-08-23
2604	2605.8	0	11025	Passeriformes	0.97214556	Passerellidae	0.9955	SFHS	0.989967	whtspa	0.99846953	whtspa	0.9984695	Y	2023-08-23
276	277.2	0	11025	Passeriformes	0.96876234	Parulidae	0.9509647			wlswar	0.9518154	wlswar	0.9518154	Y	2023-08-23
173.8	175.6	0	11025	Passeriformes	0.97213924	Parulidae	0.9559688			canwar	0.9974669	canwar	0.9974669	Y	2023-08-23
1049.6	1051.2	0	11025	Passeriformes	0.9721761	Parulidae	0.9559055			canwar	0.99793077	canwar	0.9979308	Y	2023-08-23
1150	1151.4	0	11025	Passeriformes	0.96975076	Parulidae	0.94113475			canwar	0.92538166	canwar	0.9253817	Y	2023-08-23
1521.2	1523	0	11025	Passeriformes	0.97223616	Parulidae	0.9563859			canwar	0.9980173	canwar	0.9980173	Y	2023-08-23
2088.2	2090	0	11025	Passeriformes	0.9680973	Parulidae	0.9446722			canwar	0.9639493	canwar	0.9639493	Y	2023-08-23
1243.6	1245	0	11025	Passeriformes	0.9570808	Parulidae	0.9354764	BZWA	0.97010744	chswar	0.9385396	chswar	0.9385396	Y	2023-08-23
1255.8	1257.6	0	11025	Passeriformes	0.9721343	Parulidae	0.95595866	BZWA	0.9830908	chswar	0.969666	chswar	0.969666	Y	2023-08-23
3003.6	3005.2	0	11025	Passeriformes	0.9720648	Parulidae	0.9371023	BZWA	0.9798615	chswar	0.9634912	chswar	0.9634912	Y	2023-08-23
3421	3422.6	0	11025	Passeriformes	0.96816987	Parulidae	0.9429299	BZWA	0.9808967	chswar	0.96312636	chswar	0.9631264	Y	2023-08-23
1200.8	1202.2	0	11025	Passeriformes	0.97057635	Parulidae	0.95270365	BZWA	0.9784555	comyel	0.9941578	comyel	0.9941578	Y	2023-08-23
1738.4	1740.2	0	11025	Passeriformes	0.9715381	Parulidae	0.9534828	BZWA	0.9772947	comyel	0.99995553	comyel	0.9999555	Y	2023-08-23
597.2	598.8	0	11025	Passeriformes	0.9721744	Parulidae	0.9529359	DEWA	0.99998486	norpar	0.99987364	norpar	0.9998736	Y	2023-08-23
286.8	288.4	0	11025	Passeriformes	0.9722178	Parulidae	0.956344	SBUF	0.940664	ovenbi1	0.9856533	ovenbi1	0.9856533	Y	2023-08-23
704.8	706.6	0	11025	Passeriformes	0.97204745	Parulidae	0.95605844	SBUF	0.93756557	ovenbi1	0.9846229	ovenbi1	0.9846229	Y	2023-08-23
488.6	490.2	0	11025	Passeriformes	0.9693554	Parulidae	0.9400594	SBUF	0.8959448	palwar	0.999985	palwar	0.999985	Y	2023-08-23
3184.6	3186.2	0	11025	Charadriiformes	0.98132503	Scolopacidae	0.99568415			solsan	0.97334564	solsan	0.9733456	Y	2023-08-23
569.4	571.2	0	11025	Passeriformes	0.97204775	Turdidae	0.95897895	THSH	0.94631493	swathr	0.8840156	swathr	0.8840156	Y	2023-08-23
3435	3436.6	0	11025	Passeriformes	0.9630264	Turdidae	0.94955146	THSH	0.936143	swathr	0.87038285	swathr	0.8703828	Y	2023-08-23
1986	1987.8	0	11025	Passeriformes	0.97103304	Parulidae	0.95357925			wlswar	0.9936811	wlswar	0.9936811	Y	2023-08-23
3378.4	3379.8	0	11025	Passeriformes	0.9608995	Parulidae	0.9432397			wlswar	0.94588834	wlswar	0.9458883	Y	2023-08-23
168.2	170	0	11025	Passeriformes	0.9722296	Parulidae	0.95645785			amered	0.90317315	amered	0.9031731	Y	2023-08-24



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
198.2	200	0	11025	Passeriformes	0.97217137	Parulidae	0.95639616			amered	0.9028977	amered	0.9028977	Y	2023-08-24
218.2	219.4	0	11025	Passeriformes	0.9671824	Parulidae	0.9510348			amered	0.8618583	amered	0.8618583	Y	2023-08-24
317.2	319	0	11025	Passeriformes	0.97215617	Parulidae	0.95629543			amered	0.9028528	amered	0.9028528	Y	2023-08-24
351	352.8	0	11025	Passeriformes	0.9722224	Parulidae	0.9562334			amered	0.90310913	amered	0.9031091	Y	2023-08-24
487.4	489.2	0	11025	Passeriformes	0.9722136	Parulidae	0.9564443			amered	0.9031408	amered	0.9031408	Y	2023-08-24
512.8	514	0	11025	Passeriformes	0.97000545	Parulidae	0.9525798			amered	0.8939956	amered	0.8939956	Y	2023-08-24
542	543.6	0	11025	Passeriformes	0.9701129	Parulidae	0.95258886			amered	0.8808874	amered	0.8808874	Y	2023-08-24
654.8	656.6	0	11025	Passeriformes	0.9721815	Parulidae	0.956312			amered	0.9029303	amered	0.9029303	Y	2023-08-24
873.6	875.4	0	11025	Passeriformes	0.97220975	Parulidae	0.9562606			amered	0.90313	amered	0.90313	Y	2023-08-24
957.2	959	0	11025	Passeriformes	0.97068584	Parulidae	0.94447744			amered	0.89630145	amered	0.8963014	Y	2023-08-24
1052.6	1054.4	0	11025	Passeriformes	0.9720648	Parulidae	0.9561196			amered	0.9019238	amered	0.9019238	Y	2023-08-24
1075.4	1077.2	0	11025	Passeriformes	0.97212875	Parulidae	0.9559401			amered	0.9024291	amered	0.9024291	Y	2023-08-24
1152.4	1154.2	0	11025	Passeriformes	0.972119	Parulidae	0.9555381			amered	0.90050477	amered	0.9005048	Y	2023-08-24
1266.8	1268	0	11025	Passeriformes	0.9688014	Parulidae	0.94874203			amered	0.8280449	amered	0.8280449	Y	2023-08-24
1289.4	1291.2	0	11025	Passeriformes	0.9712161	Parulidae	0.95200974			amered	0.8870233	amered	0.8870233	Y	2023-08-24
1350	1351.6	0	11025	Passeriformes	0.971437	Parulidae	0.95338625			amered	0.89842755	amered	0.8984275	Y	2023-08-24
1491.2	1492.8	0	11025	Passeriformes	0.9718712	Parulidae	0.9560096			amered	0.9023893	amered	0.9023893	Y	2023-08-24
1528.8	1530	0	11025	Passeriformes	0.97204024	Parulidae	0.9561529			amered	0.89385295	amered	0.8938529	Y	2023-08-24
1536	1537.8	0	11025	Passeriformes	0.9721061	Parulidae	0.95602053			amered	0.9026994	amered	0.9026994	Y	2023-08-24
1630.2	1631.4	0	11025	Passeriformes	0.9721491	Parulidae	0.9562018			amered	0.8836474	amered	0.8836474	Y	2023-08-24
1702	1703.6	0	11025	Passeriformes	0.9714446	Parulidae	0.95564026			amered	0.9014004	amered	0.9014004	Y	2023-08-24
1787	1788.4	0	11025	Passeriformes	0.94722635	Parulidae	0.91858166			amered	0.8730199	amered	0.8730199	Y	2023-08-24
1888.8	1890.6	0	11025	Passeriformes	0.9722092	Parulidae	0.95641303			amered	0.9031194	amered	0.9031194	Y	2023-08-24
1976.8	1978	0	11025	Passeriformes	0.97215617	Parulidae	0.956116			amered	0.8831285	amered	0.8831285	Y	2023-08-24
2060	2061.8	0	11025	Passeriformes	0.97212327	Parulidae	0.9563523			amered	0.9023886	amered	0.9023886	Y	2023-08-24
2094.4	2096.2	0	11025	Passeriformes	0.971972	Parulidae	0.95619667			amered	0.89869136	amered	0.8986914	Y	2023-08-24
2230.4	2232.2	0	11025	Passeriformes	0.9722158	Parulidae	0.9563606			amered	0.9032063	amered	0.9032063	Y	2023-08-24
2302	2303.8	0	11025	Passeriformes	0.97222644	Parulidae	0.95642823			amered	0.9030601	amered	0.9030601	Y	2023-08-24
2457.4	2459.2	0	11025	Passeriformes	0.9714906	Parulidae	0.9557749			amered	0.90211874	amered	0.9021187	Y	2023-08-24
2492	2493.4	0	11025	Passeriformes	0.968593	Parulidae	0.95070165			amered	0.89487505	amered	0.894875	Y	2023-08-24
2501.4	2503.2	0	11025	Passeriformes	0.97205997	Parulidae	0.956283			amered	0.9023858	amered	0.9023858	Y	2023-08-24
2528.2	2530	0	11025	Passeriformes	0.97204566	Parulidae	0.9560821			amered	0.9025685	amered	0.9025685	Y	2023-08-24
2599.8	2601.6	0	11025	Passeriformes	0.9722172	Parulidae	0.9563529			amered	0.90329665	amered	0.9032966	Y	2023-08-24
2603.6	2605	0	11025	Passeriformes	0.969571	Parulidae	0.95402074			amered	0.8996216	amered	0.8996216	Y	2023-08-24
2884	2885.6	0	11025	Passeriformes	0.97218555	Parulidae	0.9562868			amered	0.90320796	amered	0.903208	Y	2023-08-24
2923.6	2925.2	0	11025	Passeriformes	0.97110623	Parulidae	0.95507944			amered	0.8954135	amered	0.8954135	Y	2023-08-24
2949.4	2951	0	11025	Passeriformes	0.9720687	Parulidae	0.955952			amered	0.902937	amered	0.902937	Y	2023-08-24
3050.2	3051.8	0	11025	Passeriformes	0.9703791	Parulidae	0.95490247			amered	0.899122	amered	0.899122	Y	2023-08-24
3076.6	3078.4	0	11025	Passeriformes	0.97209454	Parulidae	0.9561722			amered	0.9024801	amered	0.9024801	Y	2023-08-24
3080.4	3081.6	0	11025	Passeriformes	0.97017384	Parulidae	0.9505253			amered	0.88373363	amered	0.8837336	Y	2023-08-24
3128.8	3130.6	0	11025	Passeriformes	0.97215605	Parulidae	0.9562059			amered	0.9027529	amered	0.9027529	Y	2023-08-24
3309.2	3311	0	11025	Passeriformes	0.97220504	Parulidae	0.9562126			amered	0.9030724	amered	0.9030724	Y	2023-08-24
3331.8	3333.6	0	11025	Passeriformes	0.9717936	Parulidae	0.9559627			amered	0.90282094	amered	0.9028209	Y	2023-08-24
3485.2	3486.8	0	11025	Passeriformes	0.97151744	Parulidae	0.9557832			amered	0.8734027	amered	0.8734027	Y	2023-08-24
3505.4	3506.6	0	11025	Passeriformes	0.9720148	Parulidae	0.9556125			amered	0.8811555	amered	0.8811555	Y	2023-08-24
3562.6	3564.2	0	11025	Passeriformes	0.9520615	Parulidae	0.83120996			amered	0.8595048	amered	0.8595048	Y	2023-08-24
392.2	393.6	0	11025	Passeriformes	0.9722269	Parulidae	0.95634514			bawwar	0.99997616	bawwar	0.9999762	Y	2023-08-24
843.6	844.8	0	11025	Passeriformes	0.97217417	Parulidae	0.95576173			bawwar	0.99830925	bawwar	0.9983093	Y	2023-08-24
862.8	864.4	0	11025	Passeriformes	0.97222793	Parulidae	0.9561378			bawwar	0.99999595	bawwar	0.9999959	Y	2023-08-24
895.4	897	0	11025	Passeriformes	0.97223425	Parulidae	0.9564769			bawwar	0.99996626	bawwar	0.9999663	Y	2023-08-24
1131.4	1133.2	0	11025	Passeriformes	0.97223073	Parulidae	0.9564147			bawwar	0.9999999	bawwar	0.9999999	Y	2023-08-24
1337.2	1338.4	0	11025	Passeriformes	0.9720427	Parulidae	0.9558836			bawwar	0.99644464	bawwar	0.9964446	Y	2023-08-24
1707.2	1708.4	0	11025	Passeriformes	0.9721648	Parulidae	0.9563462			bawwar	0.9934017	bawwar	0.9934017	Y	2023-08-24
2800.4	2802.2	0	11025	Passeriformes	0.9690605	Parulidae	0.9521422	SBUF	0.9319551	btbwar	0.8448775	btbwar	0.8448775	Y	2023-08-24
402.2	404	0	11025	Passeriformes	0.9720577	Parulidae	0.9555639	BZWA	0.96326977	comyel	0.999933	comyel	0.999933	Y	2023-08-24
2923	2924.2	0	11025	Passeriformes	0.96995544	Parulidae	0.946715	BZWA	0.96325153	comyel	0.9998115	comyel	0.9998115	Y	2023-08-24
3251.8	3253.6	0	11025	Passeriformes	0.96462363	Parulidae	0.9374065	BZWA	0.96356666	comyel	0.99987984	comyel	0.9998798	Y	2023-08-24

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
107	108.8	0	11025	Passeriformes	0.9721547	Parulidae	0.9543332	DEWA	0.9999863	norpar	0.999902	norpar	0.999902	Y	2023-08-24
950.8	952.6	0	11025	Passeriformes	0.972195	Parulidae	0.95496106	ZEEP	0.9320199	norwat	0.9999931	norwat	0.9999931	Y	2023-08-24
1222	1223.4	0	11025	Passeriformes	0.9705951	Parulidae	0.9443366	ZEEP	0.95623946	norwat	0.9999521	norwat	0.9999521	Y	2023-08-24
1572.4	1573.8	0	11025	Passeriformes	0.96359634	Parulidae	0.93285656	ZEEP	0.9089846	norwat	0.94523054	norwat	0.9452305	Y	2023-08-24
1787.8	1789.6	0	11025	Passeriformes	0.9721296	Parulidae	0.95390487	ZEEP	0.9591751	norwat	0.9999993	norwat	0.9999993	Y	2023-08-24
2149	2150.8	0	11025	Passeriformes	0.972072	Parulidae	0.9544406	ZEEP	0.9611344	norwat	0.99996567	norwat	0.9999657	Y	2023-08-24
2289	2290.8	0	11025	Passeriformes	0.9717287	Parulidae	0.95327693	ZEEP	0.96084577	norwat	0.99999917	norwat	0.9999992	Y	2023-08-24
2480.4	2481.8	0	11025	Passeriformes	0.97217566	Parulidae	0.9495841	ZEEP	0.95640224	norwat	0.9999901	norwat	0.9999901	Y	2023-08-24
2488.4	2490.2	0	11025	Passeriformes	0.97223556	Parulidae	0.95605963	ZEEP	0.9626004	norwat	0.99999917	norwat	0.9999992	Y	2023-08-24
2737	2738.6	0	11025	Passeriformes	0.97222644	Parulidae	0.9557404	ZEEP	0.9626806	norwat	0.9999999	norwat	0.9999999	Y	2023-08-24
2928.2	2930	0	11025	Passeriformes	0.9722039	Parulidae	0.95541185	ZEEP	0.96204776	norwat	0.9999999	norwat	0.9999999	Y	2023-08-24
3138.4	3140.2	0	11025	Passeriformes	0.9722189	Parulidae	0.95585495	ZEEP	0.96212786	norwat	0.99999976	norwat	0.9999998	Y	2023-08-24
3522.6	3524	0	11025	Passeriformes	0.97149426	Parulidae	0.9488831	ZEEP	0.8823571	norwat	0.9961202	norwat	0.9961202	Y	2023-08-24
3527.2	3528.8	0	11025	Passeriformes	0.9719738	Parulidae	0.9506378	ZEEP	0.92717606	norwat	0.99983406	norwat	0.9998341	Y	2023-08-24
632.2	634	0	11025	Passeriformes	0.9721314	Turdidae	0.9595699	THSH	0.94693273	swathr	0.8850881	swathr	0.8850881	Y	2023-08-24
2081.2	2083	0	11025	Passeriformes	0.9718463	Turdidae	0.9586194	THSH	0.9458229	swathr	0.8805758	swathr	0.8805758	Y	2023-08-24
2234.2	2235.8	0	11025	Passeriformes	0.97110736	Turdidae	0.95455027	THSH	0.93938875	swathr	0.85285443	swathr	0.8528544	Y	2023-08-24
1148	1149.8	0	11025	Passeriformes	0.97196	Turdidae	0.9575466	THSH	0.9412575	veery	0.99327224	veery	0.9932722	Y	2023-08-24
1203.6	1205.2	0	11025	Passeriformes	0.972024	Parulidae	0.9557155			wlswar	0.9872766	wlswar	0.9872766	Y	2023-08-24
1287.2	1288.8	0	11025	Passeriformes	0.9708995	Parulidae	0.95472735			wlswar	0.9891355	wlswar	0.9891355	Y	2023-08-24
2826.2	2828	0	11025	Passeriformes	0.9710061	Parulidae	0.95463437			wlswar	0.99197805	wlswar	0.991978	Y	2023-08-24
1665.8	1667.4	0	11025	Passeriformes	0.9673099	Icteridae	0.99999976			boboli	0.99860674	boboli	0.9986067	Y	2023-09-13
3286.8	3288	0	11025	Passeriformes	0.9702992	Icteridae	0.99999976			boboli	0.99943095	boboli	0.999431	Y	2023-09-13
2008.4	2009.8	0	11025	Passeriformes	0.97215015	Parulidae	0.9251978	ZEEP	0.94179153	norwat	0.9997266	norwat	0.9997266	Y	2023-09-13
2028.4	2029.8	0	11025	Passeriformes	0.9712474	Turdidae	0.95693445	THSH	0.94104713	veery	0.95542276	veery	0.9554228	Y	2023-09-13
2296.2	2298	0	11025	Passeriformes	0.9721556	Turdidae	0.95853734	THSH	0.9434005	veery	0.99452496	veery	0.994525	Y	2023-09-13
2362.4	2363.8	0	11025	Passeriformes	0.970788	Turdidae	0.9554353	THSH	0.93795216	veery	0.97086436	veery	0.9708644	Y	2023-09-13
2498.8	2500.2	0	11025	Passeriformes	0.9690505	Turdidae	0.93609077	THSH	0.8976174	veery	0.8800513	veery	0.8800513	Y	2023-09-13
3435	3436.6	0	11025	Passeriformes	0.9717262	Turdidae	0.9552634	THSH	0.9360304	veery	0.9924871	veery	0.9924871	Y	2023-09-13
1493.4	1495.2	0	11025	Passeriformes	0.97221595	Icteridae	0.9999999			boboli	0.9999856	boboli	0.9999856	Y	2023-09-15
1518.2	1520	0	11025	Passeriformes	0.9722322	Icteridae	0.9999999			boboli	0.9999795	boboli	0.9999795	Y	2023-09-15
2146	2147.8	0	11025	Passeriformes	0.95839816	Parulidae	0.93512696	ZEEP	0.90572935	camwar	0.9999696	camwar	0.9999696	Y	2023-09-15
201.8	203.4	0	11025	Passeriformes	0.9571114	Parulidae	0.89453363	BZWA	0.94240785	chswar	0.9151433	chswar	0.9151433	Y	2023-09-15
991.2	993	0	11025	Passeriformes	0.9720372	Turdidae	0.95910287	GCBI	0.99978584	gycthr	0.9999974	gycthr	0.9999974	Y	2023-09-15
1019	1020.8	0	11025	Passeriformes	0.9721718	Turdidae	0.9595889	GCBI	0.99978834	gycthr	0.9999975	gycthr	0.9999975	Y	2023-09-15
1944.6	1946.2	0	11025	Passeriformes	0.9721457	Turdidae	0.95951504	GCBI	0.99968326	gycthr	0.9999901	gycthr	0.9999901	Y	2023-09-15
3055.4	3057	0	11025	Passeriformes	0.96701837	Turdidae	0.9490896	THSH	0.9264475	herthr	0.99999547	herthr	0.9999955	Y	2023-09-15
3081.8	3083.4	0	11025	Passeriformes	0.97105736	Turdidae	0.939829	THSH	0.9154427	herthr	0.9999845	herthr	0.9999845	Y	2023-09-15
3088.6	3090.2	0	11025	Passeriformes	0.96851826	Turdidae	0.9455075	THSH	0.92406636	herthr	0.999998	herthr	0.999998	Y	2023-09-15
3105.4	3107	0	11025	Passeriformes	0.96916616	Turdidae	0.93585235	THSH	0.90961343	herthr	0.99999833	herthr	0.9999983	Y	2023-09-15
1941.6	1943.2	0	11025	Passeriformes	0.97009325	Parulidae	0.9416394	DEWA	0.9999465	norpar	0.99943906	norpar	0.9994391	Y	2023-09-15
1728.2	1730	0	11025	Passeriformes	0.97200024	Cardinalidae	0.9935634	GROS	0.9984347	robgro	0.99942577	robgro	0.9994258	Y	2023-09-15
319.2	320.8	0	11025	Passeriformes	0.9721329	Turdidae	0.95937324	THSH	0.94668716	swathr	0.8817672	swathr	0.8817672	Y	2023-09-15
364.8	366.4	0	11025	Passeriformes	0.97187614	Turdidae	0.95881695	THSH	0.9460439	swathr	0.8786219	swathr	0.8786219	Y	2023-09-15
2048.8	2050.6	0	11025	Passeriformes	0.97049606	Turdidae	0.9526446	THSH	0.93814117	swathr	0.8567742	swathr	0.8567742	Y	2023-09-15
2055.4	2056.8	0	11025	Passeriformes	0.97071415	Turdidae	0.95568943	THSH	0.9414126	swathr	0.8591297	swathr	0.8591297	Y	2023-09-15
2083	2084.4	0	11025	Passeriformes	0.9708147	Turdidae	0.95157224	THSH	0.9356146	swathr	0.82973784	swathr	0.8297378	Y	2023-09-15
2304.6	2306.2	0	11025	Passeriformes	0.96978384	Turdidae	0.9534544	THSH	0.93953604	swathr	0.86560655	swathr	0.8656065	Y	2023-09-15
2386.6	2388	0	11025	Passeriformes	0.96992123	Turdidae	0.9559288	THSH	0.94273895	swathr	0.8719421	swathr	0.8719421	Y	2023-09-15
2402.2	2404	0	11025	Passeriformes	0.97216964	Turdidae	0.95818985	THSH	0.94520795	swathr	0.87175786	swathr	0.8717579	Y	2023-09-15
2433.6	2435.2	0	11025	Passeriformes	0.97056705	Turdidae	0.95639133	THSH	0.94293624	swathr	0.8805647	swathr	0.8805647	Y	2023-09-15
2439.2	2440.8	0	11025	Passeriformes	0.971966	Turdidae	0.9592435	THSH	0.9464796	swathr	0.8850211	swathr	0.8850211	Y	2023-09-15
2442	2443.6	0	11025	Passeriformes	0.9719079	Turdidae	0.95898277	THSH	0.94587994	swathr	0.88416994	swathr	0.8841699	Y	2023-09-15
2452.6	2454.4	0	11025	Passeriformes	0.9721725	Turdidae	0.95961016	THSH	0.94694823	swathr	0.88589966	swathr	0.8858997	Y	2023-09-15
228.4	230.2	0	11025	Passeriformes	0.9722001	Turdidae	0.959117	THSH	0.94566494	veery	0.9941204	veery	0.9941204	Y	2023-09-15
1815.4	1817	0	11025	Passeriformes	0.9722135	Parulidae	0.9564272			bawwar	0.9999994	bawwar	0.9999994	Y	2023-09-17
2674.4	2676	0	11025	Passeriformes	0.97035235	Parulidae	0.95401573			bawwar	0.99995494	bawwar	0.9999549	Y	2023-09-17

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
3180	3181.4	0	11025	Passeriformes	0.97198933	Parulidae	0.9551979			bawwar	0.99999607	bawwar	0.9999961	Y	2023-09-17
2134	2135.8	0	11025	Passeriformes	0.972141	Parulidae	0.954108	BZWA	0.98290145	chswar	0.9655754	chswar	0.9655754	Y	2023-09-17
2070.8	2072.2	0	11025	Passeriformes	0.97123355	Parulidae	0.95367074	BZWA	0.9758046	comyel	0.9999217	comyel	0.9999217	Y	2023-09-17
2893	2894.2	0	11025	Passeriformes	0.97206086	Parulidae	0.9554075	BZWA	0.9787098	comyel	0.9996191	comyel	0.9996191	Y	2023-09-17
3311.6	3313.4	0	11025	Passeriformes	0.9712135	Parulidae	0.9506618	BZWA	0.97626	comyel	0.9999968	comyel	0.9999968	Y	2023-09-17
277.4	278.8	0	11025	Charadriiformes	0.98140246	Scolopacidae	0.9952584			greyel	0.99050117	greyel	0.9905012	Y	2023-09-17
2312.8	2314.4	0	11025	Passeriformes	0.97193086	Parulidae	0.95519406	BZWA	0.98127156	hoowar	0.9030167	hoowar	0.9030167	Y	2023-09-17
2317.6	2319	0	11025	Passeriformes	0.9721404	Parulidae	0.95601064	BZWA	0.98212653	hoowar	0.8667155	hoowar	0.8667155	Y	2023-09-17
2764.4	2765.6	0	11025	Passeriformes	0.96948963	Parulidae	0.91628736	DEWA	0.9999629	norpar	0.9997317	norpar	0.9997317	Y	2023-09-17
3583.8	3585.2	0	11025	Passeriformes	0.9693971	Parulidae	0.9048608	DEWA	0.998058	norpar	0.92755175	norpar	0.9275517	Y	2023-09-17
1374.8	1376.4	0	11025	Passeriformes	0.9695803	Parulidae	0.9286975	ZEEP	0.89704454	norwat	0.98122853	norwat	0.9812285	Y	2023-09-17
3162	3163.4	0	11025	Passeriformes	0.97215265	Parulidae	0.9522934	ZEEP	0.9579381	norwat	0.9999695	norwat	0.9999695	Y	2023-09-17
1052.8	1054.6	0	11025	Passeriformes	0.9719338	Parulidae	0.95336455	SBUF	0.9264275	ovenbi1	0.9785659	ovenbi1	0.9785659	Y	2023-09-17
8.8	10.2	0	11025	Passeriformes	0.9722205	Parulidae	0.9563713			amered	0.8814036	amered	0.8814036	Y	2023-09-18
959.8	961.6	0	11025	Passeriformes	0.970649	Parulidae	0.95443386			amered	0.89789987	amered	0.8978999	Y	2023-09-18
1872.2	1874	0	11025	Passeriformes	0.97217935	Parulidae	0.956163			amered	0.90293527	amered	0.9029353	Y	2023-09-18
2393.6	2395	0	11025	Passeriformes	0.94750625	Parulidae	0.94159514			amered	0.8643507	amered	0.8643507	Y	2023-09-18
2943.8	2945.6	0	11025	Passeriformes	0.9717656	Parulidae	0.95293504			amered	0.9021194	amered	0.9021194	Y	2023-09-18
3548.4	3550.2	0	11025	Passeriformes	0.9722048	Parulidae	0.9563666			amered	0.90324354	amered	0.9032435	Y	2023-09-18
3555.2	3557	0	11025	Passeriformes	0.9722254	Parulidae	0.9564406			bawwar	0.99999976	bawwar	0.9999998	Y	2023-09-18
715.4	717	0	11025	Passeriformes	0.97210544	Parulidae	0.9555831	BZWA	0.9828743	chswar	0.9522385	chswar	0.9522385	Y	2023-09-18
2373.2	2374.8	0	11025	Passeriformes	0.9657543	Parulidae	0.9454579	BZWA	0.9771643	chswar	0.9479768	chswar	0.9479768	Y	2023-09-18
2487	2488.8	0	11025	Passeriformes	0.97028804	Parulidae	0.94887745	BZWA	0.981547	comyel	0.9998729	comyel	0.9998729	Y	2023-09-18
2947.4	2949.2	0	11025	Passeriformes	0.9722178	Parulidae	0.9563327	BZWA	0.98315835	comyel	0.9999994	comyel	0.9999994	Y	2023-09-18
1948.4	1950	0	11025	Passeriformes	0.9719677	Parulidae	0.95573014	BZWA	0.97953826	hoowar	0.8624844	hoowar	0.8624844	Y	2023-09-18
1031.6	1033.2	0	11025	Passeriformes	0.96205074	Parulidae	0.85280085	DEWA	0.9996308	norpar	0.99378914	norpar	0.9937891	Y	2023-09-18
1570.6	1572.2	0	11025	Passeriformes	0.97185475	Parulidae	0.95539993	SBUF	0.9315339	ovenbi1	0.9586894	ovenbi1	0.9586894	Y	2023-09-18
1468	1469.6	0	11025	Passeriformes	0.97021914	Turdidae	0.9577044	THSH	0.9450076	swathr	0.8821416	swathr	0.8821416	Y	2023-09-18
1472.8	1474.4	0	11025	Passeriformes	0.96395755	Turdidae	0.95054555	THSH	0.93707526	swathr	0.8690876	swathr	0.8690876	Y	2023-09-18
1479.6	1481.2	0	11025	Passeriformes	0.9718022	Turdidae	0.95440435	THSH	0.9411469	swathr	0.8693704	swathr	0.8693704	Y	2023-09-18
1492	1493.8	0	11025	Passeriformes	0.9719982	Turdidae	0.9589229	THSH	0.94610757	swathr	0.8799189	swathr	0.8799189	Y	2023-09-18
1502.4	1504	0	11025	Passeriformes	0.970181	Turdidae	0.957264	THSH	0.9441105	swathr	0.8776043	swathr	0.8776043	Y	2023-09-18
3589	3590.8	0	11025	Passeriformes	0.9722296	Parulidae	0.95638263			bawwar	0.9999995	bawwar	0.9999995	Y	2023-09-19
1635.2	1636.8	0	11025	Passeriformes	0.93468195	Parulidae	0.9039679	BZWA	0.8891924	chswar	0.871528	chswar	0.871528	Y	2023-09-19
1781.6	1783.4	0	11025	Passeriformes	0.97210836	Parulidae	0.95622855	BZWA	0.978555	comyel	0.9999993	comyel	0.9999993	Y	2023-09-19
1788.6	1790.4	0	11025	Passeriformes	0.97210073	Parulidae	0.9558919	BZWA	0.9822134	comyel	0.9997781	comyel	0.9997781	Y	2023-09-19
2366.4	2368	0	11025	Passeriformes	0.9719092	Parulidae	0.95535594	BZWA	0.97916645	comyel	0.9997677	comyel	0.9997677	Y	2023-09-19
2419.8	2421	0	11025	Passeriformes	0.96500725	Parulidae	0.93095785	BZWA	0.9578685	comyel	0.99994123	comyel	0.9999412	Y	2023-09-19
2943.4	2945	0	11025	Passeriformes	0.97172606	Parulidae	0.9542622	BZWA	0.9799514	comyel	0.99999654	comyel	0.9999965	Y	2023-09-19
831.8	833.6	0	11025	Passeriformes	0.97096866	Parulidae	0.9302414	DEWA	0.99995136	norpar	0.999328	norpar	0.999328	Y	2023-09-19
2253.6	2255.4	0	11025	Passeriformes	0.96984875	Parulidae	0.9114753	DEWA	0.9998901	norpar	0.9984983	norpar	0.9984983	Y	2023-09-19
3357	3358.8	0	11025	Passeriformes	0.9717753	Parulidae	0.95474434	DEWA	0.9999913	norpar	0.99996877	norpar	0.9999688	Y	2023-09-19
3371.2	3373	0	11025	Passeriformes	0.97077405	Parulidae	0.9304399	DEWA	0.9999733	norpar	0.9995524	norpar	0.9995524	Y	2023-09-19
2123	2124.4	0	11025	Passeriformes	0.97217506	Parulidae	0.95537823	ZEEP	0.9568704	norwat	0.9881442	norwat	0.9881442	Y	2023-09-19
1937.4	1939	0	11025	Passeriformes	0.9689775	Parulidae	0.95091844	SBUF	0.91411644	ovenbi1	0.9731007	ovenbi1	0.9731007	Y	2023-09-19
1008	1009.8	0	11025	Passeriformes	0.97133756	Passerellidae	0.9948789	DESP	0.9896459	savspa	0.9974498	savspa	0.9974498	Y	2023-09-19
338.6	340	0	11025	Passeriformes	0.9719821	Turdidae	0.95805633	THSH	0.9453402	swathr	0.87691164	swathr	0.8769116	Y	2023-09-19
1498.2	1499.6	0	11025	Passeriformes	0.88253117	Cardinalidae	0.82848614	GROS	0.9581087	robgro	0.95486265	robgro	0.9548627	Y	2023-10-07
844	845.8	0	11025	Passeriformes	0.97220963	Passerellidae	0.9955004	DESP	0.99191076	savspa	0.99846315	savspa	0.9984632	Y	2023-10-07
1669.4	1671	0	11025	Passeriformes	0.97215694	Passerellidae	0.99503785	DESP	0.99074465	savspa	0.99736136	savspa	0.9973614	Y	2023-10-07
2727.2	2729	0	11025	Passeriformes	0.97107476	Passerellidae	0.9948532	DESP	0.9900557	savspa	0.99698645	savspa	0.9969864	Y	2023-10-07
2734.4	2735.8	0	11025	Passeriformes	0.9705038	Passerellidae	0.9924932	DESP	0.9875451	savspa	0.993558	savspa	0.993558	Y	2023-10-07
1	2.4	0	11025	Passeriformes	0.9713902	Turdidae	0.9545992	THSH	0.9407795	swathr	0.85894334	swathr	0.8589433	Y	2023-10-06
31.4	33.2	0	11025	Passeriformes	0.972001	Turdidae	0.9589583	THSH	0.94633836	swathr	0.880535	swathr	0.880535	Y	2023-10-06
43.8	45.4	0	11025	Passeriformes	0.9716135	Turdidae	0.9577461	THSH	0.9445055	swathr	0.8766473	swathr	0.8766473	Y	2023-10-06
210.4	212.2	0	11025	Passeriformes	0.97083753	Turdidae	0.95169026	THSH	0.93471164	swathr	0.8426163	swathr	0.8426163	Y	2023-10-06
214	215.4	0	11025	Passeriformes	0.97133285	Turdidae	0.95711714	THSH	0.9441087	swathr	0.87383133	swathr	0.8738313	Y	2023-10-06



Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
226.2	227.8	0	11025	Passeriformes	0.9623261	Turdidae	0.93685156	THSH	0.9160249	swathr	0.8441338	swathr	0.8441338	Y	2023-10-06
307	310.2	0	11025	Passeriformes	0.9710566	Turdidae	0.95369536	THSH	0.93872076	swathr	0.85276115	swathr	0.8527611	Y	2023-10-06
396.4	400	0	11025	Passeriformes	0.9690689	Turdidae	0.94691455	THSH	0.9325026	swathr	0.85257065	swathr	0.8525707	Y	2023-10-06
465.4	467.2	0	11025	Passeriformes	0.97139955	Turdidae	0.9463083	THSH	0.9317991	swathr	0.8329184	swathr	0.8329184	Y	2023-10-06
478.4	479.8	0	11025	Passeriformes	0.9688492	Turdidae	0.91744	THSH	0.89379936	swathr	0.8102929	swathr	0.8102929	Y	2023-10-06
488	490	0	11025	Passeriformes	0.969571	Turdidae	0.95336014	THSH	0.9389143	swathr	0.8664901	swathr	0.8664901	Y	2023-10-06
2667	2671.8	0	11025	Passeriformes	0.9720509	Turdidae	0.958617	THSH	0.94567287	swathr	0.8819599	swathr	0.8819599	Y	2023-10-07
2672.6	2674.8	0	11025	Passeriformes	0.9716294	Turdidae	0.9572496	THSH	0.94435287	swathr	0.87824327	swathr	0.8782433	Y	2023-10-07
2776.2	2777.6	0	11025	Passeriformes	0.9708288	Turdidae	0.956357	THSH	0.94360775	swathr	0.87759244	swathr	0.8775924	Y	2023-10-07
2778.4	2780.8	0	11025	Passeriformes	0.9715336	Turdidae	0.9573878	THSH	0.9442544	swathr	0.8734791	swathr	0.8734791	Y	2023-10-07
2897	2898.8	0	11025	Passeriformes	0.9669844	Turdidae	0.943839	THSH	0.9264117	swathr	0.83714396	swathr	0.837144	Y	2023-10-07
2903.8	2905.8	0	11025	Passeriformes	0.9698225	Turdidae	0.95274746	THSH	0.93691444	swathr	0.8556842	swathr	0.8556842	Y	2023-10-07
233.8	235.4	0	11025	Passeriformes	0.9720809	Passerellidae	0.9953986	SFHS	0.9895113	whtspace	0.9982229	whtspace	0.9982229	Y	2023-10-06
253.2	254.8	0	11025	Passeriformes	0.97141224	Passerellidae	0.99530905	SFHS	0.9891404	whtspace	0.9979876	whtspace	0.9979876	Y	2023-10-06
741.4	743.2	0	11025	Passeriformes	0.9721801	Passerellidae	0.9955362	SFHS	0.9900727	whtspace	0.99852175	whtspace	0.9985217	Y	2023-10-06
1239.4	1241	0	11025	Passeriformes	0.9721429	Passerellidae	0.99547344	SFHS	0.9899053	whtspace	0.9985336	whtspace	0.9985336	Y	2023-10-07
1485.4	1487	0	11025	Passeriformes	0.9719663	Parulidae	0.94996446	SBUF	0.9248475	palwar	0.9999995	palwar	0.9999995	Y	2023-10-12
28.6	30.4	0	11025	Passeriformes	0.97221696	Passerellidae	0.99553764	DESP	0.99192435	savspa	0.998425	savspa	0.998425	Y	2023-10-12
1550.8	1552.6	0	11025	Passeriformes	0.9720506	Passerellidae	0.9955142	SFHS	0.9899636	whtspace	0.9985252	whtspace	0.9985252	Y	2023-10-12
2494.2	2495.6	0	11025	Passeriformes	0.9719635	Passerellidae	0.9953324	SFHS	0.988971	whtspace	0.97821736	whtspace	0.9782174	Y	2023-10-12
3293.2	3295	0	11025	Passeriformes	0.9722099	Passerellidae	0.9955498	SFHS	0.9900932	whtspace	0.99854666	whtspace	0.9985467	Y	2023-10-12
101.6	103.2	0	11025	Passeriformes	0.9702499	Passerellidae	0.9951923			daejun	0.9967648	daejun	0.9967648	Y	2023-10-12
119.8	121.6	0	11025	Passeriformes	0.9722126	Passerellidae	0.9955426	DESP	0.99190444	savspa	0.99843246	savspa	0.9984325	Y	2023-10-12
276.6	278.4	0	11025	Passeriformes	0.9717874	Passerellidae	0.9942274	DESP	0.9892936	savspa	0.99652797	savspa	0.996528	Y	2023-10-12
516.4	518.8	0	11025	Passeriformes	0.97210556	Passerellidae	0.99548644	DESP	0.99167764	savspa	0.99825066	savspa	0.9982507	Y	2023-10-12
519.6	522.4	0	11025	Passeriformes	0.9721939	Passerellidae	0.99555874	DESP	0.99189794	savspa	0.9983469	savspa	0.9983469	Y	2023-10-12
528	530	0	11025	Passeriformes	0.9717308	Passerellidae	0.995375	DESP	0.99168915	savspa	0.9983877	savspa	0.9983877	Y	2023-10-12
738.8	740.6	0	11025	Passeriformes	0.9720899	Passerellidae	0.9955035	DESP	0.9917412	savspa	0.9983942	savspa	0.9983942	Y	2023-10-12
747.6	748.8	0	11025	Passeriformes	0.9336949	Passerellidae	0.9504683	DESP	0.8904987	savspa	0.8723901	savspa	0.8723901	Y	2023-10-12
3329.8	3331.4	0	11025	Passeriformes	0.97185564	Passerellidae	0.99525994	DESP	0.95018375	savspa	0.96706253	savspa	0.9670625	Y	2023-10-12
3490.2	3492	0	11025	Passeriformes	0.9722014	Passerellidae	0.99556434	DESP	0.9919594	savspa	0.9981839	savspa	0.9981839	Y	2023-10-12
3571	3572.8	0	11025	Passeriformes	0.96899027	Passerellidae	0.99391115	DESP	0.9821676	savspa	0.9868956	savspa	0.9868956	Y	2023-10-12
655.6	657.4	0	11025	Passeriformes	0.97170943	Passerellidae	0.9952943	SFHS	0.9894667	whtspace	0.9981092	whtspace	0.9981092	Y	2023-10-12
662.4	664	0	11025	Passeriformes	0.97212327	Passerellidae	0.9955207	SFHS	0.98997635	whtspace	0.998323	whtspace	0.998323	Y	2023-10-12
2439.2	2441	0	11025	Passeriformes	0.97209984	Passerellidae	0.9953831	SFHS	0.9887806	whtspace	0.9979627	whtspace	0.9979627	Y	2023-10-12
2773	2774.8	0	11025	Passeriformes	0.9721581	Passerellidae	0.99545527	SFHS	0.9899406	whtspace	0.9984497	whtspace	0.9984497	Y	2023-10-12
1294.8	1296.4	0	11025	Passeriformes	0.96815175	Parulidae	0.8063918	BZWA	0.96040386	chswar	0.9474728	chswar	0.9474728	Y	2023-10-12
1453	1454.8	0	11025	Passeriformes	0.97050214	Passerellidae	0.99495137	DESP	0.97960347	savspa	0.98879707	savspa	0.9887971	Y	2023-10-12
2784.8	2786.6	0	11025	Passeriformes	0.9708136	Passerellidae	0.99377257	DESP	0.9838811	savspa	0.9938822	savspa	0.9938822	Y	2023-10-12
2996.8	2998.6	0	11025	Passeriformes	0.964782	Turdidae	0.9449656	THSH	0.93017805	swathr	0.8627697	swathr	0.8627697	Y	2023-10-12
3008	3009.4	0	11025	Passeriformes	0.97001994	Turdidae	0.9513681	THSH	0.9362813	swathr	0.8279646	swathr	0.8279646	Y	2023-10-12
126.6	128.4	0	11025	Passeriformes	0.97199667	Passerellidae	0.9954699	SFHS	0.98987085	whtspace	0.9985007	whtspace	0.9985007	Y	2023-10-12
233.4	235.2	0	11025	Passeriformes	0.9714299	Passerellidae	0.9952402	SFHS	0.9889442	whtspace	0.99816316	whtspace	0.9981632	Y	2023-10-12
287.8	289.6	0	11025	Passeriformes	0.97209924	Passerellidae	0.9954881	SFHS	0.98952895	whtspace	0.9984106	whtspace	0.9984106	Y	2023-10-12
1202	1203.8	0	11025	Passeriformes	0.9721833	Passerellidae	0.99546355	SFHS	0.98994035	whtspace	0.9985273	whtspace	0.9985273	Y	2023-10-12
1544.4	1546.2	0	11025	Passeriformes	0.96117395	Passerellidae	0.99303246	SFHS	0.9789876	whtspace	0.9944681	whtspace	0.9944681	Y	2023-10-12
1630.2	1631.4	0	11025	Passeriformes	0.956458	Passerellidae	0.98974484	SFHS	0.94499636	whtspace	0.9761353	whtspace	0.9761353	Y	2023-10-12
2138	2139.4	0	11025	Passeriformes	0.9296898	Passerellidae	0.9847935	SFHS	0.96604073	whtspace	0.9878534	whtspace	0.9878534	Y	2023-10-12
490.8	492.6	0	11025	Passeriformes	0.9720972	Passerellidae	0.99551	DESP	0.99184144	savspa	0.9984145	savspa	0.9984145	Y	2023-10-13
1132	1133.8	0	11025	Passeriformes	0.9692267	Passerellidae	0.994003	DESP	0.9893478	savspa	0.9968989	savspa	0.9968989	Y	2023-10-13
1156.4	1158.2	0	11025	Passeriformes	0.9721262	Passerellidae	0.99538875	DESP	0.99159896	savspa	0.9983121	savspa	0.9983121	Y	2023-10-13
2700.6	2702.4	0	11025	Passeriformes	0.9722216	Passerellidae	0.9955581	DESP	0.99195755	savspa	0.9984804	savspa	0.9984804	Y	2023-10-13
3116	3117.8	0	11025	Passeriformes	0.9722296	Passerellidae	0.9955766	DESP	0.99195427	savspa	0.9974191	savspa	0.9974191	Y	2023-10-13
3354.4	3355.8	0	11025	Passeriformes	0.9694716	Passerellidae	0.98925334	DESP	0.97754276	savspa	0.99418914	savspa	0.9941891	Y	2023-10-13
3369.4	3371.2	0	11025	Passeriformes	0.9716723	Passerellidae	0.99542916	DESP	0.99153054	savspa	0.9982674	savspa	0.9982674	Y	2023-10-13
1913.4	1915	0	11025	Passeriformes	0.9694798	Turdidae	0.9562216	THSH	0.9432154	swathr	0.87579274	swathr	0.8757927	Y	2023-10-13
3188	3189.6	0	11025	Passeriformes	0.9639369	Turdidae	0.94226914	THSH	0.9216976	swathr	0.8562988	swathr	0.8562988	Y	2023-10-13

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
996.4	997.6	0	11025	Passeriformes	0.96301514	Turdidae	0.9355807	THSH	0.91014344	herthr	0.999997	herthr	0.999997	Y	2023-10-13
1016.6	1018.4	0	11025	Passeriformes	0.97021735	Turdidae	0.95633477	THSH	0.9424303	herthr	0.9999988	herthr	0.9999988	Y	2023-10-13
1037	1038.4	0	11025	Passeriformes	0.96342045	Turdidae	0.93997455	THSH	0.9182598	herthr	0.9999988	herthr	0.9999988	Y	2023-10-13
1466	1467.4	0	11025	Passeriformes	0.95755076	Turdidae	0.931658	THSH	0.8996397	herthr	0.99996495	herthr	0.999965	Y	2023-10-13
961	962.8	0	11025	Passeriformes	0.971788	Passerellidae	0.9954691	DESP	0.9917903	savspa	0.998395	savspa	0.998395	Y	2023-10-13
1378.8	1380.6	0	11025	Passeriformes	0.9719372	Passerellidae	0.99543166	DESP	0.9917719	savspa	0.9984668	savspa	0.9984668	Y	2023-10-13
2643.4	2645.2	0	11025	Passeriformes	0.9721469	Passerellidae	0.99552935	SFHS	0.98979646	whtspa	0.9933861	whtspa	0.9933861	Y	2023-10-13
2652.6	2654.4	0	11025	Passeriformes	0.97221166	Passerellidae	0.9955715	SFHS	0.99010676	whtspa	0.99800617	whtspa	0.9980062	Y	2023-10-13
2659.2	2660.8	0	11025	Passeriformes	0.9699588	Passerellidae	0.9932278	SFHS	0.98199743	whtspa	0.99125355	whtspa	0.9912536	Y	2023-10-13
2667.2	2668.6	0	11025	Passeriformes	0.9709891	Passerellidae	0.99534947	SFHS	0.9849054	whtspa	0.9942913	whtspa	0.9942913	Y	2023-10-13
2771.2	2773	0	11025	Passeriformes	0.9710915	Passerellidae	0.99524564	SFHS	0.9887078	whtspa	0.9980572	whtspa	0.9980572	Y	2023-10-13
2982.6	2984.4	0	11025	Passeriformes	0.9603967	Passerellidae	0.9937755	SFHS	0.98491096	whtspa	0.9969681	whtspa	0.9969681	Y	2023-10-13
2043.8	2045.2	0	11025	Passeriformes	0.9616122	Turdidae	0.9517261	THSH	0.9349802	herthr	0.9999963	herthr	0.9999963	Y	2023-10-15
2866.2	2867.6	0	11025	Passeriformes	0.9696396	Sittidae	0.9842524			rebnt	0.9979241	rebnt	0.9979241	Y	2023-10-15
2922.4	2923.8	0	11025	Passeriformes	0.97053045	Sittidae	0.98408496			rebnt	0.9977597	rebnt	0.9977597	Y	2023-10-15
3087.8	3089.4	0	11025	Passeriformes	0.9620834	Sittidae	0.97316676			rebnt	0.9884651	rebnt	0.9884651	Y	2023-10-15
3106.6	3108.8	0	11025	Passeriformes	0.9707997	Sittidae	0.9842312			rebnt	0.9978398	rebnt	0.9978398	Y	2023-10-15
3120.6	3122.8	0	11025	Passeriformes	0.9722357	Sittidae	0.9845709			rebnt	0.99816424	rebnt	0.9981642	Y	2023-10-15
3334	3335.8	0	11025	Passeriformes	0.97160316	Sittidae	0.98447984			rebnt	0.99806195	rebnt	0.998062	Y	2023-10-15
3348.4	3350.8	0	11025	Passeriformes	0.97104734	Sittidae	0.9844525			rebnt	0.998047	rebnt	0.998047	Y	2023-10-15
3355.6	3357.2	0	11025	Passeriformes	0.9717642	Sittidae	0.9844714			rebnt	0.9980703	rebnt	0.9980703	Y	2023-10-15
3378.6	3380.4	0	11025	Passeriformes	0.9709854	Sittidae	0.98434293			rebnt	0.9979836	rebnt	0.9979836	Y	2023-10-15
3385.2	3386.4	0	11025	Passeriformes	0.9570124	Sittidae	0.97887224			rebnt	0.9922964	rebnt	0.9922964	Y	2023-10-15
3399.6	3401.4	0	11025	Passeriformes	0.970266	Sittidae	0.9842795			rebnt	0.9978714	rebnt	0.9978714	Y	2023-10-15
3408.2	3410.4	0	11025	Passeriformes	0.9694484	Sittidae	0.983721			rebnt	0.997361	rebnt	0.997361	Y	2023-10-15
2799.8	2801.6	0	11025	Passeriformes	0.9641147	Passerellidae	0.9933055	SFHS	0.98527306	whtspa	0.9973016	whtspa	0.9973016	Y	2023-10-15
3203	3204.2	0	11025	Passeriformes	0.8697783	Passerellidae	0.9703353	SFHS	0.9548794	whtspa	0.9820063	whtspa	0.9820063	Y	2023-10-15
356.4	358	0	11025	Passeriformes	0.96926683	Turdidae	0.95287406			amerob	0.99640733	amerob	0.9964073	Y	2023-10-18
2848.8	2850.2	0	11025	Passeriformes	0.9323167	Passerellidae	0.988298			daejun	0.985507	daejun	0.985507	Y	2023-10-18
1033.8	1035.4	0	11025	Passeriformes	0.968199	Turdidae	0.93687373	THSH	0.91135687	herthr	0.9999958	herthr	0.9999958	Y	2023-10-18
1043.4	1044.8	0	11025	Passeriformes	0.9715971	Turdidae	0.9569259	THSH	0.94253385	herthr	0.9999989	herthr	0.9999989	Y	2023-10-18
1051	1052.4	0	11025	Passeriformes	0.9720294	Turdidae	0.95909363	THSH	0.94616956	herthr	0.9999905	herthr	0.9999905	Y	2023-10-18
1115.4	1117.2	0	11025	Passeriformes	0.9699552	Turdidae	0.9568827	THSH	0.9420151	herthr	0.9999988	herthr	0.9999988	Y	2023-10-18
1122.2	1123.6	0	11025	Passeriformes	0.92762333	Turdidae	0.9072431	THSH	0.8612463	herthr	0.99999785	herthr	0.9999979	Y	2023-10-18
1136.4	1137.8	0	11025	Passeriformes	0.97214884	Turdidae	0.9595477	THSH	0.94670326	herthr	0.9999989	herthr	0.9999989	Y	2023-10-18
1894.6	1896.2	0	11025	Passeriformes	0.9708307	Turdidae	0.9562764	THSH	0.94184506	herthr	0.9999988	herthr	0.9999988	Y	2023-10-18
1904.8	1906.6	0	11025	Passeriformes	0.9713769	Turdidae	0.9581626	THSH	0.94474554	herthr	0.9999988	herthr	0.9999988	Y	2023-10-18
1911.8	1913.6	0	11025	Passeriformes	0.96170837	Turdidae	0.9442511	THSH	0.9247403	herthr	0.99999774	herthr	0.9999977	Y	2023-10-18
1916.4	1918	0	11025	Passeriformes	0.9526515	Turdidae	0.9239816	THSH	0.8817008	herthr	0.9999962	herthr	0.9999962	Y	2023-10-18
3071.2	3072.6	0	11025	Passeriformes	0.9720291	Turdidae	0.95883876	THSH	0.9458153	herthr	0.99999905	herthr	0.999999	Y	2023-10-18
3094.4	3095.8	0	11025	Passeriformes	0.9692314	Turdidae	0.95141035	THSH	0.93230164	herthr	0.99999785	herthr	0.9999979	Y	2023-10-18
1039.2	1040.8	0	11025	Passeriformes	0.9719802	Passerellidae	0.9953629	SFHS	0.9898756	whtspa	0.99845564	whtspa	0.9984556	Y	2023-10-18
2840	2841.6	0	11025	Passeriformes	0.9688904	Turdidae	0.9537052	THSH	0.93763566	herthr	0.9999981	herthr	0.9999981	Y	2023-10-19
2874.2	2875.6	0	11025	Passeriformes	0.96966404	Turdidae	0.95635056	THSH	0.9424211	herthr	0.9999944	herthr	0.9999944	Y	2023-10-19
3259.6	3261.2	0	11025	Passeriformes	0.97003144	Turdidae	0.9540513	THSH	0.9366798	herthr	0.99999845	herthr	0.9999985	Y	2023-10-19
3274.4	3276	0	11025	Passeriformes	0.9710401	Turdidae	0.95574933	THSH	0.94003963	herthr	0.9999988	herthr	0.9999988	Y	2023-10-19
3280	3281.8	0	11025	Passeriformes	0.97215533	Turdidae	0.9595118	THSH	0.94669527	herthr	0.99999905	herthr	0.999999	Y	2023-10-19
2758.6	2760.4	0	11025	Passeriformes	0.9694746	Passerellidae	0.9943845	SFHS	0.98634756	whtspa	0.9971079	whtspa	0.9971079	Y	2023-10-19
2786.2	2788.6	0	11025	Passeriformes	0.9674334	Passerellidae	0.9923496	SFHS	0.9747165	whtspa	0.99423754	whtspa	0.9942375	Y	2023-10-19
2965.6	2967	0	11025	Passeriformes	0.947561	Passerellidae	0.97366285	SFHS	0.89789927	whtspa	0.95496744	whtspa	0.9549674	Y	2023-10-19
2989.8	2991.4	0	11025	Passeriformes	0.96935004	Passerellidae	0.9948527	SFHS	0.9856322	whtspa	0.9966583	whtspa	0.9966583	Y	2023-10-19
3032.4	3033.8	0	11025	Passeriformes	0.95576555	Passerellidae	0.9902688	SFHS	0.97997767	whtspa	0.9966467	whtspa	0.9966467	Y	2023-10-19
3057.2	3058.6	0	11025	Passeriformes	0.9610657	Passerellidae	0.99335057	SFHS	0.98406696	whtspa	0.9958753	whtspa	0.9958753	Y	2023-10-19
194.2	195.8	0	11025	Passeriformes	0.95667243	Sittidae	0.98115647			rebnt	0.9958209	rebnt	0.9958209	Y	2023-10-20
292	293.6	0	11025	Passeriformes	0.97075677	Sittidae	0.983431			rebnt	0.99740785	rebnt	0.9974079	Y	2023-10-20
683.2	684.4	0	11025	Passeriformes	0.9706077	Passerellidae	0.9948578	SFHS	0.9885809	whtspa	0.99821365	whtspa	0.9982136	Y	2023-10-20
715.2	717.2	0	11025	Passeriformes	0.966508	Parulidae	0.91615367			amered	0.8888563	amered	0.8888563	Y	2023-10-21

Table 42: 2023 Nighthawk Acoustic Output

Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	order	prob_order	family	prob_family	group	prob_group	species	prob_species	predicted_category	prob	Annotation	Day
732.4	733.6	0	11025	Passeriformes	0.97032106	Parulidae	0.91769344			amered	0.8940437	amered	0.8940437	Y	2023-10-21
775.4	777	0	11025	Passeriformes	0.9719087	Parulidae	0.95561713			amered	0.90304965	amered	0.9030496	Y	2023-10-21
825.8	827.6	0	11025	Passeriformes	0.9716632	Parulidae	0.9531326			amered	0.9015711	amered	0.9015711	Y	2023-10-21
544.8	546.4	0	11025	Passeriformes	0.8915731	Passerellidae	0.9724858	CUPS	0.8846275	amtspa	0.9831798	amtspa	0.9831798	Y	2023-10-21
411.2	412.4	0	11025	Passeriformes	0.9696091	Parulidae	0.9248994	DEWA	0.9997371	norpar	0.98539054	norpar	0.9853905	Y	2023-10-21
2317	2318.6	0	11025	Passeriformes	0.97186553	Turdidae	0.95877784	THSH	0.9452986	herthr	0.99999905	herthr	0.999999	Y	2023-10-24
2322.8	2324.6	0	11025	Passeriformes	0.96163607	Turdidae	0.94174004	THSH	0.9184184	herthr	0.9999987	herthr	0.9999987	Y	2023-10-24
2329.8	2331.2	0	11025	Passeriformes	0.97111094	Turdidae	0.95683926	THSH	0.94102347	herthr	0.9999987	herthr	0.9999987	Y	2023-10-24
2336.8	2338.2	0	11025	Passeriformes	0.9696116	Turdidae	0.9519973	THSH	0.93301237	herthr	0.99999857	herthr	0.9999986	Y	2023-10-24
2339.4	2341.2	0	11025	Passeriformes	0.9715086	Turdidae	0.9576537	THSH	0.9435685	herthr	0.9999989	herthr	0.9999989	Y	2023-10-24
2378.2	2379.6	0	11025	Passeriformes	0.94479764	Turdidae	0.9014941	THSH	0.83113056	herthr	0.99992836	herthr	0.9999284	Y	2023-10-24
2593	2594.4	0	11025	Passeriformes	0.9282699	Turdidae	0.8848039	THSH	0.80409855	herthr	0.99999535	herthr	0.9999954	Y	2023-10-24
3154	3155.4	0	11025	Passeriformes	0.9526846	Turdidae	0.9272541	THSH	0.8927817	herthr	0.9921686	herthr	0.9921686	Y	2023-10-24
3168	3169.4	0	11025	Passeriformes	0.97172076	Turdidae	0.957389	THSH	0.94282126	herthr	0.9999986	herthr	0.9999986	Y	2023-10-24
3263	3264.4	0	11025	Passeriformes	0.96494573	Turdidae	0.94332105	THSH	0.9234566	herthr	0.99999714	herthr	0.9999971	Y	2023-10-24
3391.6	3393.2	0	11025	Passeriformes	0.97216874	Turdidae	0.9594935	THSH	0.9468693	herthr	0.9999989	herthr	0.9999989	Y	2023-10-24
3407.2	3408.8	0	11025	Passeriformes	0.9650413	Turdidae	0.948748	THSH	0.927833	herthr	0.9999976	herthr	0.9999976	Y	2023-10-24
145.6	148	0	11025	Passeriformes	0.96624357	Turdidae	0.95045066	THSH	0.9371519	swathr	0.8604416	swathr	0.8604416	Y	2023-10-26
517	518.4	0	11025	Passeriformes	0.96884626	Turdidae	0.9549289	THSH	0.94112337	swathr	0.85974145	swathr	0.8597414	Y	2023-10-26
629.4	631.2	0	11025	Passeriformes	0.96944267	Turdidae	0.9491493	THSH	0.93424124	swathr	0.85061854	swathr	0.8506185	Y	2023-10-26
3329.8	3331.2	0	11025	Passeriformes	0.9705823	Turdidae	0.95655733	THSH	0.9427049	swathr	0.87771636	swathr	0.8777164	Y	2023-10-26
1538.6	1539.8	0	11025	Passeriformes	0.95098066	Turdidae	0.90891564	THSH	0.88211423	swathr	0.82612824	swathr	0.8261282	Y	2023-10-27
3008.8	3010.2	0	11025	Passeriformes	0.9601285	Turdidae	0.9397881	THSH	0.9166457	swathr	0.85076195	swathr	0.850762	Y	2023-10-27
1250.4	1253.2	0	11025	Passeriformes	0.9619609	Turdidae	0.9469884	THSH	0.9309159	swathr	0.8605199	swathr	0.8605199	Y	2023-10-27
3015.6	3017.2	0	11025	Passeriformes	0.9598644	Turdidae	0.9466419	THSH	0.93049884	swathr	0.86651987	swathr	0.8665199	Y	2023-10-27
1256.8	1258.4	0	11025	Passeriformes	0.968134	Turdidae	0.951525	THSH	0.93728	swathr	0.86755544	swathr	0.8675554	Y	2023-10-27
3017.6	3019.2	0	11025	Passeriformes	0.96248776	Turdidae	0.9482745	THSH	0.9325732	swathr	0.8683111	swathr	0.8683111	Y	2023-10-27
1673.2	1676	0	11025	Passeriformes	0.9685675	Turdidae	0.9551543	THSH	0.94134504	swathr	0.87385195	swathr	0.873852	Y	2023-10-27
1540	1543.6	0	11025	Passeriformes	0.9683043	Turdidae	0.9532809	THSH	0.93960243	swathr	0.87531996	swathr	0.87532	Y	2023-10-27
1246.2	1250.2	0	11025	Passeriformes	0.9699481	Turdidae	0.95329726	THSH	0.93945915	swathr	0.8765239	swathr	0.8765239	Y	2023-10-27
1544.2	1545.6	0	11025	Passeriformes	0.9707022	Turdidae	0.9571453	THSH	0.94296306	swathr	0.87737703	swathr	0.877377	Y	2023-10-27
2627.4	2628.8	0	11025	Passeriformes	0.9652165	Parulidae	0.873342			amered	0.8849948	amered	0.8849948	Y	2023-11-03
3437.4	3439.2	0	11025	Passeriformes	0.9719927	Turdidae	0.9595388			amerob	0.99999976	amerob	0.9999998	Y	2023-11-08



Table 43: Species at Risk Observation Summary - 2022 - Melvin Lake Wind Farm Project

Date	Survey Type	Point count #	Survey start Time	Total survey time (mins)	Species code	Common name	#	Breeding Evidence	Distance	Bearing	Incidental	Pass. Height	Pass. Direction	Scientific Name	Group	Comments
20-May-22	Point Count	ml 20	6:21	10	CAWA	Canada Warbler	1	Singing	100	Southwest				Cardellina canadensis	6	
20-May-22	Point Count	ml 16	8:01	10	CAWA	Canada Warbler	1	Singing	100	North				Cardellina canadensis	6	waypoint 131, singing farther north than point
20-May-22	Point Count	ml 15	7:43	10	OSFL	Olive-sided Flycatcher	1	Singing	0	East				Contopus cooperi	6	
20-May-22	Point Count	ml 15	7:43	10	OSFL	Olive-sided Flycatcher	1	Singing	100	Southeast				Contopus cooperi	6	
20-May-22	Diurnal Count	hawk 1	14:16	30	OSFL	Olive-sided Flycatcher	1	Singing	250	West				Contopus cooperi	6	
02-Jun-22	Point Count	ml 14	6:47	10	CAWA	Canada Warbler	1	Singing	100	Northwest				Cardellina canadensis	6	
07-Jun-22	Point Count	ml 5	7:21	10	CAWA	Canada Warbler	1	Singing	100	East				Cardellina canadensis	6	waypoint 233
27-Jun-22	Point Count	ml 17	8:58	10	CAWA	Canada Warbler	1	Singing	100	Northwest				Cardellina canadensis	6	
14-Jul-22	Point Count	ml 15	7:36	10	CONI	Common Nighthawk	1	Boom	100	Northwest				Chordeiles minor	6	booming throughout waypoint
14-Jul-22	Point Count	ml 20	8:36	10	CONI	Common Nighthawk	1	Boom	500	Northwest				Chordeiles minor	6	
02-Jun-22	Point Count	ml 21	7:37	10	EAWP	Eastern Wood-Pewee	1	Singing	100	North				Contopus virens	6	
02-Jun-22	Point Count	ml 13	6:10	10	OSFL	Olive-sided Flycatcher	1	Singing	100	Northeast				Contopus cooperi	6	
02-Jun-22	Point Count	ml 16	8:21	10	OSFL	Olive-sided Flycatcher	1	Pipping	0	North				Contopus cooperi	6	
02-Jun-22	Point Count	ml 16	8:21	10	OSFL	Olive-sided Flycatcher	1	Singing	250	Northeast				Contopus cooperi	6	
02-Jun-22	Point Count	ml 19	9:41	10	OSFL	Olive-sided Flycatcher	1	Singing	0	Southeast				Contopus cooperi	6	
07-Jun-22	Point Count	ml 25	7:06	10	OSFL	Olive-sided Flycatcher	1	Singing	500	Northwest				Contopus cooperi	6	
07-Jun-22	Point Count	ml 24	7:52	10	OSFL	Olive-sided Flycatcher	1	Singing	250	Southeast				Contopus cooperi	6	
07-Jun-22	Point Count	ml 26	9:05	10	OSFL	Olive-sided Flycatcher	1	Singing	100	Northwest				Contopus cooperi	6	
07-Jun-22	Point Count	ml 28	9:42	10	OSFL	Olive-sided Flycatcher	1	Singing	250	North				Contopus cooperi	6	
14-Jul-22	Point Count	ml 16	7:16	10	OSFL	Olive-sided Flycatcher	2	Agitated	0	North				Contopus cooperi	6	
07-Jul-22	Nightjar	ML CONI 2	8:54	6	CONI	Common Nighthawk	1	Peent	500	South				Chordeiles minor	6	
07-Jul-22	Nightjar	ML CONI 2	8:54	6	CONI	Common Nighthawk	2	Boom	500	Southeast				Chordeiles minor	6	
07-Jul-22	Nightjar	ML CONI 6	9:36	6	CONI	Common Nighthawk	1	Peent	500	Northwest				Chordeiles minor	6	
07-Jul-22	Nightjar	ML CONI 6	9:36	6	CONI	Common Nighthawk	2	Boom	100	North				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 1	8:45	6	CONI	Common Nighthawk	2	Peent	500	Northwest				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 1	8:45	6	CONI	Common Nighthawk	1	Boom	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 1	8:45	6	CONI	Common Nighthawk	2	Peent	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 1	8:45	6	CONI	Common Nighthawk	1	Peent	250	West				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 2	8:59	6	CONI	Common Nighthawk	1	Peent	500	East				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 2	8:59	6	CONI	Common Nighthawk	1	Peent	500	West				Chordeiles minor	6	
15-Jul-22	Nightjar	ML CONI 4	9:29	6	CONI	Common Nighthawk	1	Peent	500	South				Chordeiles minor	6	

Table 44: Habitat Descriptions for 2022 Point and Diurnal Count Locations Based on Satellite Imagery and the Nova Scotia Provincial Landscape Viewer, using CWS Habitat Code

Project # 24-9856

Point Count #	Habitat Class	Habitat Subclass	Habitat Structure	Habitat Modification	Additional Notes
ML1	Woodland	Softwood dominant mixed	Mixed age	Human disturbance little to moderate	Confirmed old growth stand southeast of PC along Rafter Lake
ML2	Woodland	Softwood dominant mixed	Mixed age	Human disturbance little to moderate	
ML3	Woodland	Softwood dominant mixed	Mixed age	Human disturbance little to moderate	
ML4	Woodland	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	
ML5	Woodland	Softwood dominant mixed	Mixed age	Human disturbance little to moderate	Wetland to the east, harvest/softwood plantation to the southeast
ML6	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance little to moderate	
ML7	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance heavy, partially logged	Wetland complex with fen to the south
ML8	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance heavy, partially logged	
ML9	Woodland	Mixed (> 10% each)	Young	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML10	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML11	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance little to moderate	Drainage/wet area flows towards Big Indian Lake
ML12	Woodland	Mixed (> 10% each)	Mixed age, open canopy	Human disturbance heavy	Small quarry present
ML13	Woodland	Mixed (> 10% each)	Young	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML14	Woodland	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	Large clearcut to the north
ML15	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance little to moderate	
ML16	Lake	Softwood	Mixed age	Human disturbance little to moderate	Lake with wet coniferous edges, extensive logging in the area
ML17	Woodland	Softwood dominant mixed	Mixed age	Human disturbance little to moderate	
ML18	Woodland	Softwood	Young	Human disturbance heavy, partially logged	
ML19	Woodland	Softwood	Mixed age	Human disturbance heavy, partially logged	Small wetland to the west
ML20	Woodland	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML21	Woodland	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML22	Woodland	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	
ML23	Woodland	Softwood	Young	Human disturbance heavy, partially logged	Area has been heavily clearcut
ML24	Woodland	Softwood	Mixed age	Human disturbance little to moderate	Lake nearby
ML25	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance little to moderate	
ML26	Woodland	Mixed (> 10% each)	Mixed age	Human disturbance little to moderate	
ML27	Wetlands dominated by vegetation	Softwood dominant mixed	Mixed age	Human disturbance heavy, partially logged	Part of fen complex. Area has been heavily clearcut
ML28	Wetlands with mainly open water	Softwood dominant mixed	Mixed age, wet/standing water present	No human disturbance	Edge of fen complex

**Table 45: Habitat Descriptions for 2024 Point and Diurnal Count Locations Based on CWS Habitat Codes**

Point Count #	Habitat Class	Habitat Subclass	Habitat Structure	Habitat Modification
PC1	Wetlands dominated	Deciduous	Mixed Age	Human disturbance heavy
PC2	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
PC3	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC4	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
PC5	Woodland	Coniferous	Mature	Human disturbance light to moderate
PC6	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC7	Woodland	Mixed (>10% each)	Young, very low shrubs	Human disturbance light to moderate
PC8	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
PC9	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC10	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC11	Wetlands with mainly open water	Lake	Slow running, rock shore, oligotrophic	Human disturbance light to moderate
PC12	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
PC13	Woodland	Coniferous	Tall shrubs layer present	Partially logged
PC14	Woodland	Coniferous	Mixed Age	Partially logged
PC15	Woodland	Mixed (>10% each)	Tall shrubs layer present	Human disturbance light to moderate
PC16	Wetlands dominated	Shrubs	Areas of open water, freshwater, fen	No human disturbance
PC17	Woodland	Coniferous	very low shrubs	Partially logged
PC18	Woodland	Coniferous	Tall shrubs layer present	Partially logged
PC19	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
PC20	Woodland	Mixed (>10% each)	Mixed Age	Partially logged
PC21	Woodland	Mixed (>10% each)	Young	Partially logged
PC22	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC55	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC56	Woodland	Mixed (>10% each)	Young, mixed age	Human disturbance light to moderate
PC57	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
PC58	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
Diurnal 1	Woodland	Coniferous	Mature	Human disturbance light to moderate
Diurnal 2	Woodland	Undefined	Young	Human disturbance light to moderate
Diurnal 3	Woodland	Mixed (>10% each)	Young	Human disturbance light to moderate
Diurnal 4	Woodland	Coniferous	Mature	Partially logged
Area Search 1	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
Area Search 2	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
Area Search 3	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance light to moderate
Area Search 4	Woodland	Mixed (>10% each)	Mixed Age	Human disturbance heavy
Area Search 5	Woodland	Mixed (>10% each)	Mixed Age	No human disturbance
Area Search 6	Woodland	Mixed (>10% each)	Young	Human disturbance heavy

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Project # 24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-01	2022	1	1	4.9	11.4		
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-02	2022	1	2	3.9		35	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-03	2022	1	3	-4.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-04	2022	1	4	-8.1		32	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-05	2022	1	5	0.5		17	51
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-06	2022	1	6	4.5		19	54
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-07	2022	1	7	-0.3		34	74
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-08	2022	1	8	-9		33	59
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-09	2022	1	9	-3.3		25	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-10	2022	1	10	-2.4		31	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-11	2022	1	11	-13.6		31	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-12	2022	1	12	-7.2		19	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-13	2022	1	13	0.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-14	2022	1	14	-0.6		3	69
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-15	2022	1	15	-10.4		33	74
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-16	2022	1	16	-11.6		32	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-17	2022	1	17	-4.6		13	72
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-18	2022	1	18	-2.4		30	46
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-19	2022	1	19	-3.2		32	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-20	2022	1	20	-1.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-21	2022	1	21	-12.2		34	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-22	2022	1	22	-11.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-23	2022	1	23	-4.1		22	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-24	2022	1	24	-6.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-25	2022	1	25	-3.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-26	2022	1	26	-8.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-27	2022	1	27	-12.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-28	2022	1	28	-5.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-29	2022	1	29	-0.7		1	46
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-30	2022	1	30	-4.1		20	67
-63.66	44.75	BEDFORD RANGE	8200574	2022-01-31	2022	1	31	-10.8		32	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-01	2022	2	1	-13.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-02	2022	2	2	-9.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-03	2022	2	3	4.7	11.8	19	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-04	2022	2	4	0.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-05	2022	2	5	-7.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-06	2022	2	6	-11.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-07	2022	2	7	-6.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-08	2022	2	8	3.2		11	64
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-09	2022	2	9	1.6		29	45
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-10	2022	2	10	1.2		19	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-11	2022	2	11	3.4		24	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-12	2022	2	12	5.8		19	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-13	2022	2	13	-2.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-14	2022	2	14	-8.9		35	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-15	2022	2	15	-14.7		31	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-16	2022	2	16	-8.9		19	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-17	2022	2	17	6.1	0.4	21	54
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-18	2022	2	18	3.1		20	77
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-19	2022	2	19	-3.9		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-20	2022	2	20	-4.1		29	52
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-21	2022	2	21	3.5		21	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-22	2022	2	22	1.3		9	43

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-23	2022	2	23	3.5		30	60
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-24	2022	2	24	-6.6		33	56
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-25	2022	2	25	-10.5		36	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-26	2022	2	26	-9.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-27	2022	2	27	-7.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-02-28	2022	2	28	-10.8		29	51
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-01	2022	3	1	-11.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-02	2022	3	2	-0.3		31	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-03	2022	3	3	-7.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-04	2022	3	4	-11.8		30	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-05	2022	3	5	-9		28	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-06	2022	3	6	0		15	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-07	2022	3	7	5.4	8.8		
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-08	2022	3	8	3.1		30	61
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-09	2022	3	9	-2.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-10	2022	3	10	1.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-11	2022	3	11	1.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-12	2022	3	12	6.8		16	69
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-13	2022	3	13	0.9		29	68
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-14	2022	3	14	-2.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-15	2022	3	15	3.1		30	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-16	2022	3	16	-0.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-17	2022	3	17	3.6	0	17	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-18	2022	3	18	9.1	0	32	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-19	2022	3	19	2.1		14	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-20	2022	3	20	9.8	8.2	9	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-21	2022	3	21	2.4	2.2	29	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-22	2022	3	22	1.2		29	50
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-23	2022	3	23	0.4		34	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-24	2022	3	24	2		10	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-25	2022	3	25	2.9	24	12	50
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-26	2022	3	26	4.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-27	2022	3	27	3.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-28	2022	3	28	4.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-29	2022	3	29	-0.3		30	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-30	2022	3	30				
-63.66	44.75	BEDFORD RANGE	8200574	2022-03-31	2022	3	31	1.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-01	2022	4	1	7.8		23	45
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-02	2022	4	2	4		29	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-03	2022	4	3	4		23	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-04	2022	4	4	0.3		31	55
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-05	2022	4	5	2.4		28	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-06	2022	4	6	3.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-07	2022	4	7	4		34	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-08	2022	4	8	3.8		10	48
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-09	2022	4	9	6.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-10	2022	4	10	4.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-11	2022	4	11	5.6		30	57
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-12	2022	4	12	5.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-13	2022	4	13	7		33	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-14	2022	4	14	7.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-15	2022	4	15	3.9		11	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-16	2022	4	16	7.3		21	51

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-17	2022	4	17	7		30	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-18	2022	4	18	6.2		31	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-19	2022	4	19	6.1		14	65
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-20	2022	4	20	6.3		18	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-21	2022	4	21	4.7		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-22	2022	4	22	8.4		30	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-23	2022	4	23	4.1		32	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-24	2022	4	24	3.2		33	55
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-25	2022	4	25	9.7		36	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-26	2022	4	26	7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-27	2022	4	27	7.4		12	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-28	2022	4	28	5.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-29	2022	4	29	5.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-04-30	2022	4	30	4.8		33	46
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-01	2022	5	1	4.6		35	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-02	2022	5	2	7.5		3	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-03	2022	5	3	6.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-04	2022	5	4	5.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-05	2022	5	5	7.5		28	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-06	2022	5	6	5.5		28	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-07	2022	5	7	5.4		2	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-08	2022	5	8	4.3		4	45
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-09	2022	5	9	7.2		13	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-10	2022	5	10	8.7		14	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-11	2022	5	11	11.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-12	2022	5	12	18			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-13	2022	5	13	13.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-14	2022	5	14	18.1		31	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-15	2022	5	15	9.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-16	2022	5	16	10			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-17	2022	5	17	11.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-18	2022	5	18	8.5		31	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-19	2022	5	19	9.5		18	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-20	2022	5	20	11.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-21	2022	5	21	10.6		17	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-22	2022	5	22	14			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-23	2022	5	23	11		33	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-24	2022	5	24	10.5		33	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-25	2022	5	25	10.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-26	2022	5	26	12.6		20	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-27	2022	5	27	13.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-28	2022	5	28	15			
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-29	2022	5	29	17.8		31	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-30	2022	5	30	17.9		30	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-05-31	2022	5	31	9.8		34	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-01	2022	6	1	11.4		31	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-02	2022	6	2	11.9		32	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-03	2022	6	3	11.7		16	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-04	2022	6	4	13			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-05	2022	6	5	13.2		14	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-06	2022	6	6	11.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-07	2022	6	7	14.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-08	2022	6	8	13.9			



Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-09	2022	6	9	17		20	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-10	2022	6	10	16.6		23	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-11	2022	6	11	16.5		20	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-12	2022	6	12	17.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-13	2022	6	13	16.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-14	2022	6	14	14.8		35	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-15	2022	6	15	14.6		35	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-16	2022	6	16	16.1		19	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-17	2022	6	17	15.2		21	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-18	2022	6	18	16.9		14	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-19	2022	6	19	14.5		17	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-20	2022	6	20	13.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-21	2022	6	21	11.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-22	2022	6	22	12.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-23	2022	6	23	17.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-24	2022	6	24	17.4		18	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-25	2022	6	25	19.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-26	2022	6	26	19.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-27	2022	6	27	18.7		20	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-28	2022	6	28	16.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-29	2022	6	29	17.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-06-30	2022	6	30	17.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-01	2022	7	1	18.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-02	2022	7	2	18.3		16	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-03	2022	7	3	19.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-04	2022	7	4	16.7		31	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-05	2022	7	5	17.9		28	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-06	2022	7	6	15.8		15	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-07	2022	7	7	16.8		32	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-08	2022	7	8	16.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-09	2022	7	9	16.1		33	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-10	2022	7	10	15.7		31	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-11	2022	7	11	16.2		20	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-12	2022	7	12	16		19	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-13	2022	7	13	20.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-14	2022	7	14	19.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-15	2022	7	15	19.1		31	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-16	2022	7	16	19.9		30	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-17	2022	7	17	18.9		17	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-18	2022	7	18	20.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-19	2022	7	19	20.1		18	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-20	2022	7	20	20.6		28	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-21	2022	7	21				
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-22	2022	7	22				
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-23	2022	7	23	22.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-24	2022	7	24	22.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-25	2022	7	25	22.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-26	2022	7	26	20.4		21	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-27	2022	7	27	19.8		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-28	2022	7	28	20.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-29	2022	7	29	17.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-30	2022	7	30	18.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-07-31	2022	7	31	20.5		29	31

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-01	2022	8	1	19.7		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-02	2022	8	2	19		15	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-03	2022	8	3	21			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-04	2022	8	4	20.2		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-05	2022	8	5	22.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-06	2022	8	6	22.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-07	2022	8	7	24		20	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-08	2022	8	8	21.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-09	2022	8	9	19.4		32	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-10	2022	8	10	18.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-11	2022	8	11	19.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-12	2022	8	12	20.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-13	2022	8	13	21.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-14	2022	8	14	19.4		27	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-15	2022	8	15	18.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-16	2022	8	16	19.9		9	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-17	2022	8	17	19.9		11	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-18	2022	8	18	19.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-19	2022	8	19	20.2		29	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-20	2022	8	20	21.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-21	2022	8	21	21			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-22	2022	8	22	20.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-23	2022	8	23	21.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-24	2022	8	24	22.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-25	2022	8	25	22.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-26	2022	8	26	20.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-27	2022	8	27	20.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-28	2022	8	28	18.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-29	2022	8	29	20.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-30	2022	8	30	20.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-08-31	2022	8	31	22.3		13	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-01	2022	9	1	20.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-02	2022	9	2	15.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-03	2022	9	3	16			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-04	2022	9	4	16.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-05	2022	9	5	18.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-06	2022	9	6	16.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-07	2022	9	7	15.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-08	2022	9	8	15.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-09	2022	9	9	17.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-10	2022	9	10	16.7		32	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-11	2022	9	11	18.8		34	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-12	2022	9	12	18.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-13	2022	9	13	18.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-14	2022	9	14	20.7		21	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-15	2022	9	15	14.4		28	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-16	2022	9	16	13.2		30	46
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-17	2022	9	17	11.4		33	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-18	2022	9	18	10.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-19	2022	9	19	13.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-20	2022	9	20	13.3		11	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-21	2022	9	21	18.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-22	2022	9	22	17.9		17	50

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Project # 24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-23	2022	9	23	13.7		32	90
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-24	2022	9	24	10.3		31	83
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-25	2022	9	25	12.5		20	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-26	2022	9	26	16.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-27	2022	9	27	16.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-28	2022	9	28	14.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-29	2022	9	29	13.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-09-30	2022	9	30	11.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-01	2022	10	1	12.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-02	2022	10	2	5.9		35	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-03	2022	10	3	6.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-04	2022	10	4	7.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-05	2022	10	5	13			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-06	2022	10	6	14.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-07	2022	10	7	15.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-08	2022	10	8	9.5		29	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-09	2022	10	9	7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-10	2022	10	10	6.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-11	2022	10	11	8.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-12	2022	10	12	9.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-13	2022	10	13	10.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-14	2022	10	14	14		15	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-15	2022	10	15	16.5		13	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-16	2022	10	16	14.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-17	2022	10	17	14.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-18	2022	10	18	14.6		17	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-19	2022	10	19	14.8		12	53
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-20	2022	10	20	9.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-21	2022	10	21	9.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-22	2022	10	22	9.5			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-23	2022	10	23	11.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-24	2022	10	24	13.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-25	2022	10	25	17.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-26	2022	10	26	17.5		12	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-27	2022	10	27	14.8		31	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-28	2022	10	28	5.3		33	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-29	2022	10	29	5.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-30	2022	10	30	8.7			
-63.66	44.75	BEDFORD RANGE	8200574	2022-10-31	2022	10	31	8.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-01	2022	11	1	11.2			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-02	2022	11	2	9.6		31	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-03	2022	11	3	6.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-04	2022	11	4	11.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-05	2022	11	5	17.7		19	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-06	2022	11	6	16		20	38
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-07	2022	11	7	13.7		34	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-08	2022	11	8	6.3		30	65
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-09	2022	11	9	3.3		32	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-10	2022	11	10	8.4		21	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-11	2022	11	11	11.9			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-12	2022	11	12	12.3		20	55
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-13	2022	11	13	8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-14	2022	11	14	7.7		28	49

Table 46: 2022 Daily Weather Data - Melvin Lake Wind Farm Project

Project # 24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-15	2022	11	15	1.8		30	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-16	2022	11	16	7.2		17	46
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-17	2022	11	17	5.7		29	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-18	2022	11	18	0.1		27	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-19	2022	11	19	1.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-20	2022	11	20	2.3		29	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-21	2022	11	21	0.1		29	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-22	2022	11	22	1.4		30	53
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-23	2022	11	23	0.2		30	44
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-24	2022	11	24	-2.7		30	35
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-25	2022	11	25	0.5		14	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-26	2022	11	26	4.6		32	70
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-27	2022	11	27	3.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-28	2022	11	28	7.3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-29	2022	11	29	-2.8		14	40
-63.66	44.75	BEDFORD RANGE	8200574	2022-11-30	2022	11	30	1.6		32	34
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-01	2022	12	1	5.8		13	57
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-02	2022	12	2	-1		14	74
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-03	2022	12	3	2.9		31	32
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-04	2022	12	4	5.2		16	48
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-05	2022	12	5	-0.9		19	51
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-06	2022	12	6	0.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-07	2022	12	7	7.9		13	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-08	2022	12	8	7		12	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-09	2022	12	9	4.2		34	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-10	2022	12	10	-0.4		2	47
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-11	2022	12	11	-3.7		35	31
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-12	2022	12	12	-3.6		35	39
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-13	2022	12	13	-3.6		35	65
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-14	2022	12	14	-2.9		35	37
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-15	2022	12	15	2.5		1	41
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-16	2022	12	16	2.6			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-17	2022	12	17	3		6	49
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-18	2022	12	18	2.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-19	2022	12	19	1.8		31	36
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-20	2022	12	20	2.9		33	42
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-21	2022	12	21	0.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-22	2022	12	22	-1.4			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-23	2022	12	23	4.5		11	78
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-24	2022	12	24	7.5		24	49
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-25	2022	12	25	0.2		24	43
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-26	2022	12	26	-0.8			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-27	2022	12	27	-0.1		32	33
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-28	2022	12	28	-4.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-29	2022	12	29	-2.1			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-30	2022	12	30	3			
-63.66	44.75	BEDFORD RANGE	8200574	2022-12-31	2022	12	31	7.3			

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-01	2023	1	1	6.9		32	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-02	2023	1	2	1.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-03	2023	1	3	3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-04	2023	1	4	3.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-05	2023	1	5	-1.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-06	2023	1	6	-0.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-07	2023	1	7	-0.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-08	2023	1	8	-4.7		34	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-09	2023	1	9	-0.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-10	2023	1	10	-2.8		28	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-11	2023	1	11	-7.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-12	2023	1	12	-6.7			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-13	2023	1	13	4.3		18	56
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-14	2023	1	14	6.6		2	48
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-15	2023	1	15	0.5		1	51
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-16	2023	1	16	4.5		2	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-17	2023	1	17	4.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-18	2023	1	18	4.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-19	2023	1	19	0.2		31	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-20	2023	1	20	-0.7		34	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-21	2023	1	21				
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-22	2023	1	22				
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-23	2023	1	23	4.6		33	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-24	2023	1	24	-1.6		31	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-25	2023	1	25	-3.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-26	2023	1	26	5		17	79
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-27	2023	1	27	-0.7		30	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-28	2023	1	28	-1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-29	2023	1	29	2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-30	2023	1	30	4.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-01-31	2023	1	31	-4.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-01	2023	2	1	-11.8			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-02	2023	2	2	-8.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-03	2023	2	3	-10.8		32	55
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-04	2023	2	4	-19.3		28	62
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-05	2023	2	5	-5.4		18	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-06	2023	2	6	1.2		2	60
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-07	2023	2	7	-4.7		36	54
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-08	2023	2	8	-2.1		30	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-09	2023	2	9	-2.9		31	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-10	2023	2	10	2.4		13	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-11	2023	2	11	-2.4		33	48
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-12	2023	2	12	-1.2		22	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-13	2023	2	13	-2.2		1	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-14	2023	2	14	-4.3		33	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-15	2023	2	15	-3.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-16	2023	2	16	7.2		31	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-17	2023	2	17	0.5		34	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-18	2023	2	18	-7.2		36	49
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-19	2023	2	19	-3.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-20	2023	2	20	4.5		16	52

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-21	2023	2	21	0.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-22	2023	2	22	0.1		30	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-23	2023	2	23	-7.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-24	2023	2	24	-9.9		3	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-25	2023	2	25	-14.4		32	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-26	2023	2	26	-13.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-27	2023	2	27	-10.8			
-63.66	44.75	BEDFORD RANGE	8200574	2023-02-28	2023	2	28	-10.6		15	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-01	2023	3	1	-4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-02	2023	3	2	-3.6		35	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-03	2023	3	3	-6.3		34	52
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-04	2023	3	4	-8.8			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-05	2023	3	5	-3.4		31	45
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-06	2023	3	6	-0.6		32	46
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-07	2023	3	7	-0.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-08	2023	3	8	1.1		3	55
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-09	2023	3	9	-0.1		2	45
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-10	2023	3	10	-2.1		34	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-11	2023	3	11	-2.3		36	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-12	2023	3	12	2.6		2	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-13	2023	3	13	1.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-14	2023	3	14	-0.4		9	59
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-15	2023	3	15	4.3		34	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-16	2023	3	16	0.5		32	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-17	2023	3	17	2.7		36	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-18	2023	3	18	4.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-19	2023	3	19	2.7		29	47
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-20	2023	3	20	0.6		29	52
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-21	2023	3	21				
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-22	2023	3	22	1		32	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-23	2023	3	23	-1.2		11	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-24	2023	3	24	0.6		31	60
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-25	2023	3	25	1.6		32	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-26	2023	3	26	0.8		9	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-27	2023	3	27	2.3		29	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-28	2023	3	28	2		30	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-29	2023	3	29	2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-30	2023	3	30	0.3		15	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-03-31	2023	3	31	-0.5		32	48
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-01	2023	4	1	3.8		13	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-02	2023	4	2	3		32	55
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-03	2023	4	3	2.7		32	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-04	2023	4	4	5.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-05	2023	4	5				
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-06	2023	4	6	1.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-07	2023	4	7	6		29	57
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-08	2023	4	8	-0.8		29	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-09	2023	4	9	-0.6		27	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-10	2023	4	10	6		32	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-11	2023	4	11	7.9		25	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-12	2023	4	12	6.2	0.2	32	52



Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-13	2023	4	13	8.9		28	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-14	2023	4	14	8.5	0	33	46
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-15	2023	4	15	6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-16	2023	4	16	9.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-17	2023	4	17	10.1	0.2	12	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-18	2023	4	18	9	9.4	12	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-19	2023	4	19	7.5	0	15	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-20	2023	4	20	6.9	0.2	30	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-21	2023	4	21	6.3	0	1	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-22	2023	4	22	7.5	0	1	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-23	2023	4	23	5.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-24	2023	4	24	4.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-25	2023	4	25	5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-26	2023	4	26	5.7			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-27	2023	4	27	5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-28	2023	4	28	7.9		4	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-29	2023	4	29	5.3		14	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-04-30	2023	4	30	4		14	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-01	2023	5	1	7.1	54.4	13	58
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-02	2023	5	2	5.7	0.2	8	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-03	2023	5	3	4.6	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-04	2023	5	4	6.3	0.2	35	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-05	2023	5	5	4.8		34	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-06	2023	5	6	7.6		32	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-07	2023	5	7	6.3		19	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-08	2023	5	8	10.4	0	32	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-09	2023	5	9	5.4		29	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-10	2023	5	10	7.8		28	46
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-11	2023	5	11	10.5	0	13	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-12	2023	5	12	9.9	0	16	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-13	2023	5	13	13.7	2	33	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-14	2023	5	14	8	0	30	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-15	2023	5	15	11.4	0	32	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-16	2023	5	16	13.9	0	32	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-17	2023	5	17	5.8	5.6	30	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-18	2023	5	18	6.3		32	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-19	2023	5	19	6.1		21	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-20	2023	5	20	11.4	0	18	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-21	2023	5	21	12.8	10.6	21	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-22	2023	5	22	7.9	0	2	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-23	2023	5	23	8.3		14	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-24	2023	5	24	8.6	0	18	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-25	2023	5	25	9.9	0	34	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-26	2023	5	26	7.1	0	34	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-27	2023	5	27	12.4	0	31	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-28	2023	5	28	19.7	0	29	46
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-29	2023	5	29	8	0	33	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-30	2023	5	30	10.5		22	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-05-31	2023	5	31	14.9	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-01	2023	6	1	20.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-02	2023	6	2	15.4	11.4		

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-03	2023	6	3	9.4	33.6	6	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-04	2023	6	4	9.9	6.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-05	2023	6	5	10.3	61.4	2	57
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-06	2023	6	6	11.8	5.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-07	2023	6	7	11.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-08	2023	6	8	12.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-09	2023	6	9	14	2.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-10	2023	6	10	12.2	3.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-11	2023	6	11	15.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-12	2023	6	12	18.8	0	29	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-13	2023	6	13	17.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-14	2023	6	14	13.7	5.8	12	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-15	2023	6	15	15.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-16	2023	6	16	17.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-17	2023	6	17	14.7	12.6	9	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-18	2023	6	18	12.7	11	9	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-19	2023	6	19	12.6	0.4	33	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-20	2023	6	20	12.5	0.2	31	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-21	2023	6	21	15.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-22	2023	6	22	17.6	1.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-23	2023	6	23	16.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-24	2023	6	24	19.9	2	18	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-25	2023	6	25	20.6	6.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-26	2023	6	26	15.5	11.8	12	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-27	2023	6	27	15.7	6.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-28	2023	6	28	19.8	17.4	16	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-29	2023	6	29	18.7	11.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-06-30	2023	6	30	19.2	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-01	2023	7	1	18.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-02	2023	7	2	17.9	17.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-03	2023	7	3	18.7	38.2	21	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-04	2023	7	4	20.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-05	2023	7	5	21	11.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-06	2023	7	6	23	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-07	2023	7	7	23.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-08	2023	7	8	21.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-09	2023	7	9	22.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-10	2023	7	10	20.6	1.2	10	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-11	2023	7	11	18.4	43.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-12	2023	7	12	22.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-13	2023	7	13	22.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-14	2023	7	14	22.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-15	2023	7	15	22.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-16	2023	7	16	22.8	0	17	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-17	2023	7	17	23.6	4	20	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-18	2023	7	18	24	0.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-19	2023	7	19	21.5	9.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-20	2023	7	20	23.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-21	2023	7	21	20.6	181.2	28	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-22	2023	7	22	21.1	55.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-23	2023	7	23	23.7	4.8		

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-24	2023	7	24	23.7	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-25	2023	7	25	22.1	0.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-26	2023	7	26	21.8	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-27	2023	7	27	22.6	1.4	19	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-28	2023	7	28	23.5	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-29	2023	7	29	23.8	0.2	30	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-30	2023	7	30	19.4	10.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-07-31	2023	7	31	18.9	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-01	2023	8	1	17.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-02	2023	8	2	17.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-03	2023	8	3	16.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-04	2023	8	4	16.3	0.4	14	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-05	2023	8	5	18.6	104.6	27	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-06	2023	8	6	19.2	0	29	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-07	2023	8	7	18.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-08	2023	8	8	18.6	0.2	12	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-09	2023	8	9	19.2	24	12	56
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-10	2023	8	10	20.2	0	30	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-11	2023	8	11	18.9	11.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-12	2023	8	12	19.4	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-13	2023	8	13	17.8	18.6	13	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-14	2023	8	14	22.2	4.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-15	2023	8	15	18.7	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-16	2023	8	16	18.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-17	2023	8	17	19.7	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-18	2023	8	18	21.1	33.6	15	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-19	2023	8	19	19.7	12.6	17	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-20	2023	8	20	18.7	0.2	20	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-21	2023	8	21	17.5	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-22	2023	8	22	18.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-23	2023	8	23	16	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-24	2023	8	24	17.4	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-25	2023	8	25	17.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-26	2023	8	26	19.8		17	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-27	2023	8	27	18.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-28	2023	8	28	18.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-29	2023	8	29	17.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-30	2023	8	30	20.5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-08-31	2023	8	31	14		33	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-01	2023	9	1	13.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-02	2023	9	2	16.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-03	2023	9	3	15.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-04	2023	9	4	20			
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-05	2023	9	5	21.9		33	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-06	2023	9	6	21.7	4.2	34	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-07	2023	9	7	20.1	0.4	29	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-08	2023	9	8	21.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-09	2023	9	9	23.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-10	2023	9	10	23.5	2.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-11	2023	9	11	22	2.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-12	2023	9	12	22.2	2.4		

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-13	2023	9	13	21	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-14	2023	9	14	20.6	42.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-15	2023	9	15	18.3	9.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-16	2023	9	16	19	24.6	14	88
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-17	2023	9	17	16.3	0.8	20	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-18	2023	9	18	16.2	0.8		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-19	2023	9	19	17.4	25.4	15	50
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-20	2023	9	20	14.8	0	31	33
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-21	2023	9	21	13.1	0	31	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-22	2023	9	22	12.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-23	2023	9	23	12.9	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-24	2023	9	24	14	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-25	2023	9	25	13.6	0.2	2	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-26	2023	9	26	10.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-27	2023	9	27	10.8	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-28	2023	9	28	14.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-29	2023	9	29	13.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-09-30	2023	9	30	14.4	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-01	2023	10	1	14.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-02	2023	10	2	14.6	0.2	34	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-03	2023	10	3	16.2	0	30	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-04	2023	10	4	15.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-05	2023	10	5	16.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-06	2023	10	6	16.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-07	2023	10	7	15.3	0.6	11	54
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-08	2023	10	8	12.6	21.2	11	56
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-09	2023	10	9	11.2	5.6	13	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-10	2023	10	10	10.9	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-11	2023	10	11	10.2	41		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-12	2023	10	12	14.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-13	2023	10	13	11.3	10.8	30	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-14	2023	10	14	12.2	0	32	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-15	2023	10	15	10.6	3.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-16	2023	10	16	11.1	11		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-17	2023	10	17	7.1	3.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-18	2023	10	18	7.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-19	2023	10	19	9.2	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-20	2023	10	20	11.1	0.4	16	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-21	2023	10	21	15.6	25	20	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-22	2023	10	22	11.5	5.2	29	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-23	2023	10	23	6.6	1.4	33	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-24	2023	10	24	6.5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-25	2023	10	25	13.4	0	19	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-26	2023	10	26	15.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-27	2023	10	27	13.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-28	2023	10	28	17	0	33	47
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-29	2023	10	29	7.5	0	33	38
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-30	2023	10	30	3.1	21.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-10-31	2023	10	31	3.1		33	37
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-01	2023	11	1	0.6		31	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-02	2023	11	2	0.3		31	43

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-03	2023	11	3	2.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-04	2023	11	4	7.8	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-05	2023	11	5	7.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-06	2023	11	6	2.5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-07	2023	11	7	6.6	1.8	15	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-08	2023	11	8	6.4	0.4	30	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-09	2023	11	9	3.6	0	30	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-10	2023	11	10	3.9		27	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-11	2023	11	11	2.4		31	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-12	2023	11	12	1		31	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-13	2023	11	13	0.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-14	2023	11	14	2.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-15	2023	11	15	1.5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-16	2023	11	16	4.2		33	32
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-17	2023	11	17	3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-18	2023	11	18	11.4	52	31	46
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-19	2023	11	19	2.3		28	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-20	2023	11	20	0.8		31	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-21	2023	11	21	-1.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-22	2023	11	22	0.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-23	2023	11	23	7.7	13.2	12	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-24	2023	11	24			31	47
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-25	2023	11	25	-4.7			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-26	2023	11	26	-1.6		29	43
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-27	2023	11	27	7.5	35.2	15	76
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-28	2023	11	28	1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-29	2023	11	29	-3.2		29	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-11-30	2023	11	30	-2.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-01	2023	12	1	4.5	0.4	21	35
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-02	2023	12	2	5.5	5		
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-03	2023	12	3	0.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-04	2023	12	4	0.1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-05	2023	12	5	-1.9			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-06	2023	12	6	-5.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-07	2023	12	7	-3.3		30	31
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-08	2023	12	8	-3.1		28	36
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-09	2023	12	9	-2.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-10	2023	12	10	3.2			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-11	2023	12	11	10.3	8.8	19	80
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-12	2023	12	12	0.2		27	39
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-13	2023	12	13	1.7		31	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-14	2023	12	14	-4.2		29	41
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-15	2023	12	15	-0.4		22	44
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-16	2023	12	16	-1.4		31	40
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-17	2023	12	17	-0.6		14	34
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-18	2023	12	18	11.2	20.6	15	76
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-19	2023	12	19	10.6	8.8	19	42
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-20	2023	12	20	4	19.6	35	56
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-21	2023	12	21	-2.4		33	73
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-22	2023	12	22	-5.6		33	55
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-23	2023	12	23	-4.8			

Table 47: 2023 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-24	2023	12	24	-1			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-25	2023	12	25	1.7			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-26	2023	12	26	3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-27	2023	12	27	2.4			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-28	2023	12	28	3.3	6.6		
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-29	2023	12	29	1.6			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-30	2023	12	30	0.5			
-63.66	44.75	BEDFORD RANGE	8200574	2023-12-31	2023	12	31	-0.6		28	34



Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-01	2024	1	1	-3.6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-02	2024	1	2	-4.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-03	2024	1	3	-4.1			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-04	2024	1	4	-0.6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-05	2024	1	5	-4.2		31	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-06	2024	1	6	-8.9		32	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-07	2024	1	7	-7.4		2	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-08	2024	1	8	-7		32	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-09	2024	1	9	-6.4			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-10	2024	1	10	1.7		13	72
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-11	2024	1	11	2.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-12	2024	1	12	-3.2		29	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-13	2024	1	13	0.8		12	67
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-14	2024	1	14	3.7		23	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-15	2024	1	15	-4			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-16	2024	1	16	1.6		10	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-17	2024	1	17	2.2		28	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-18	2024	1	18	-5.5		27	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-19	2024	1	19	-5.7		30	47
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-20	2024	1	20	-6.1			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-21	2024	1	21	-2.9		31	41
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-22	2024	1	22	-3.5		30	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-23	2024	1	23	-3		31	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-24	2024	1	24	-6.2			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-25	2024	1	25	0.1		35	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-26	2024	1	26	-3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-27	2024	1	27	-0.6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-28	2024	1	28	0.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-29	2024	1	29	-3.8		1	65
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-30	2024	1	30	-7.8		1	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-01-31	2024	1	31	-8.1			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-01	2024	2	1	-3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-02	2024	2	2	0.2		2	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-03	2024	2	3	-2.8		33	51
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-04	2024	2	4	-3		33	57
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-05	2024	2	5	0.1		34	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-06	2024	2	6	-0.4		34	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-07	2024	2	7	-2.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-08	2024	2	8	-3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-09	2024	2	9	-2.2			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-10	2024	2	10	-0.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-11	2024	2	11	3.4			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-12	2024	2	12	2			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-13	2024	2	13				
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-14	2024	2	14	-4.8		31	53
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-15	2024	2	15	-5.5		32	58
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-16	2024	2	16	-8		33	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-17	2024	2	17	-7.9			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-18	2024	2	18	-8		29	48
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-19	2024	2	19	-7.5		28	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-20	2024	2	20	-11.3		32	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-21	2024	2	21	-11.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-22	2024	2	22	-6.6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-23	2024	2	23	-2			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-24	2024	2	24	0.7		18	55
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-25	2024	2	25	-5.9			
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-26	2024	2	26	-5.6		17	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-27	2024	2	27	2		16	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-28	2024	2	28	9	10.2	16	62
-63.66	44.75	BEDFORD RANGE	8200574	2024-02-29	2024	2	29	1.2		17	85
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-01	2024	3	1	-9		30	49

Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-02	2024	3	2	-0.8		17	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-03	2024	3	3	4.6	15.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-04	2024	3	4	2.1		2	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-05	2024	3	5	0			
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-06	2024	3	6	7.4	8.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-07	2024	3	7	2.8		35	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-08	2024	3	8	-0.4		33	54
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-09	2024	3	9	3.3			
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-10	2024	3	10	2.7		11	60
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-11	2024	3	11	3.4	4.6	15	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-12	2024	3	12				
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-13	2024	3	13	2.9	0.2	32	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-14	2024	3	14	4.7			
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-15	2024	3	15	1.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-16	2024	3	16	5.3	0	35	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-17	2024	3	17	2.3		13	42
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-18	2024	3	18	3.9		21	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-19	2024	3	19	1.8		29	37
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-20	2024	3	20	1.5		22	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-21	2024	3	21	1.2		13	54
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-22	2024	3	22	-0.3		28	46
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-23	2024	3	23	1.1		13	62
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-24	2024	3	24	5.3		16	82
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-25	2024	3	25	1.6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-26	2024	3	26	3.2	28.4	8	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-27	2024	3	27	5	8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-28	2024	3	28	10.6	29	16	37
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-29	2024	3	29	9	7.2	14	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-30	2024	3	30	1.5		27	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-03-31	2024	3	31	1.6		29	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-01	2024	4	1	1.8		31	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-02	2024	4	2	3		4	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-03	2024	4	3	2.6		1	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-04	2024	4	4	1.4		9	52
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-05	2024	4	5	4.4	0.4	9	49
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-06	2024	4	6	3.2	3.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-07	2024	4	7	3		2	53
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-08	2024	4	8	6.7		32	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-09	2024	4	9	2		33	43
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-10	2024	4	10	2.8		17	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-11	2024	4	11	5.1	2.6	13	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-12	2024	4	12	9.6	28	17	63
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-13	2024	4	13	9	10	18	47
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-14	2024	4	14	6.7	0	20	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-15	2024	4	15	9.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-16	2024	4	16	8.8	1		
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-17	2024	4	17	5.7	0	32	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-18	2024	4	18	5.6		36	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-19	2024	4	19	6.4		35	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-20	2024	4	20	4			
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-21	2024	4	21	8	0	17	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-22	2024	4	22	5		28	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-23	2024	4	23	2.1		13	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-24	2024	4	24	9	0.4	30	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-25	2024	4	25	1.8		29	44
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-26	2024	4	26	3.1		31	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-27	2024	4	27	4.1		2	41
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-28	2024	4	28	6.4			
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-29	2024	4	29	8.4	2.4	32	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-04-30	2024	4	30	5.8	0	32	47
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-01	2024	5	1	6.4	0		

Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-02	2024	5	2	8	0	35	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-03	2024	5	3	8.1	0	35	46
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-04	2024	5	4	10.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-05	2024	5	5	8.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-06	2024	5	6	8.6	3		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-07	2024	5	7	13.7	0	31	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-08	2024	5	8	10.8	2.2	18	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-09	2024	5	9	6.4	15.6	5	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-10	2024	5	10	6.8	0.2	2	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-11	2024	5	11	7.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-12	2024	5	12	8.6	0	36	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-13	2024	5	13	9.1	0	1	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-14	2024	5	14	11			
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-15	2024	5	15	12	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-16	2024	5	16	13.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-17	2024	5	17	13	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-18	2024	5	18	12	0	10	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-19	2024	5	19	10.8	0.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-20	2024	5	20	9.5	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-21	2024	5	21	13.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-22	2024	5	22	17.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-23	2024	5	23	16.5	5.8	18	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-24	2024	5	24	18.3	0.4	20	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-25	2024	5	25	14.7	0	31	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-26	2024	5	26	10.8	3		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-27	2024	5	27	11.4	0.2	11	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-28	2024	5	28	12.7	2.4	15	46
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-29	2024	5	29	16.6	24.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-30	2024	5	30	14.4	3.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-05-31	2024	5	31	12.6	0.2	32	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-01	2024	6	1	9.7	0	1	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-02	2024	6	2	12.5		32	60
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-03	2024	6	3	14.7			
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-04	2024	6	4	16.9		1	41
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-05	2024	6	5	16.9		33	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-06	2024	6	6	17.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-07	2024	6	7	16.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-08	2024	6	8	13.7			
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-09	2024	6	9	17.4		19	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-10	2024	6	10	16.2		18	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-11	2024	6	11	16.3		17	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-12	2024	6	12	16.5			
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-13	2024	6	13	16.3		17	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-14	2024	6	14	18.2		21	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-15	2024	6	15	12.6	15.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-16	2024	6	16	14.6	0	31	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-17	2024	6	17	14.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-18	2024	6	18	18	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-19	2024	6	19	22	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-20	2024	6	20	27.1	0	31	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-21	2024	6	21	21.2	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-22	2024	6	22	19.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-23	2024	6	23	16.1	8	19	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-24	2024	6	24	17	6.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-25	2024	6	25	17	1.4	33	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-26	2024	6	26	18.5	0.2	18	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-27	2024	6	27	17.2	6	20	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-28	2024	6	28	14.4	0	32	43
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-29	2024	6	29	14.6	0	19	37
-63.66	44.75	BEDFORD RANGE	8200574	2024-06-30	2024	6	30	16.5	12.8	19	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-01	2024	7	1	19.6	0.2		

Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-02	2024	7	2	18.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-03	2024	7	3	17.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-04	2024	7	4	15.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-05	2024	7	5	16	1.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-06	2024	7	6	17.5	26.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-07	2024	7	7	20.9	3.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-08	2024	7	8	23.2	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-09	2024	7	9	22.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-10	2024	7	10	24.1	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-11	2024	7	11	21.6	3.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-12	2024	7	12	23.9	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-13	2024	7	13	24.6	0	24	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-14	2024	7	14	24.5	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-15	2024	7	15	24	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-16	2024	7	16	20.6	0	17	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-17	2024	7	17	22.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-18	2024	7	18	19.7	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-19	2024	7	19	21.3	0.2	31	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-20	2024	7	20	20.2	1	20	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-21	2024	7	21	20.3	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-22	2024	7	22	18.7	0	29	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-23	2024	7	23	16.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-24	2024	7	24	20.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-25	2024	7	25	17	3		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-26	2024	7	26	19.8	0.8	30	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-27	2024	7	27	18.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-28	2024	7	28	20.8	0	16	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-29	2024	7	29	19.2	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-30	2024	7	30	19.1	6.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-07-31	2024	7	31	21.3	0	23	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-01	2024	8	1	21.9	9.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-02	2024	8	2	25.2	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-03	2024	8	3	22.8	2.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-04	2024	8	4	23.6	7.6	17	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-05	2024	8	5	22.9	5.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-06	2024	8	6	17.1	3		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-07	2024	8	7	17.4	1.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-08	2024	8	8	18.5	0.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-09	2024	8	9	16.8	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-10	2024	8	10	20.6	6	20	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-11	2024	8	11	21.2	0.8	29	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-12	2024	8	12	19	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-13	2024	8	13	19.3	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-14	2024	8	14	18.3	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-15	2024	8	15	18.8	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-16	2024	8	16	19	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-17	2024	8	17	19	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-18	2024	8	18	18.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-19	2024	8	19	24.4	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-20	2024	8	20	21.8	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-21	2024	8	21	19.5	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-22	2024	8	22	17.2	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-23	2024	8	23	16.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-24	2024	8	24	19.2	1		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-25	2024	8	25	19.9	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-26	2024	8	26	17.1	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-27	2024	8	27	18.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-28	2024	8	28	15.2	2	35	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-29	2024	8	29	14.1	0	31	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-30	2024	8	30	13.3	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-08-31	2024	8	31	14.7	1.8	18	32

Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-01	2024	9	1	19.8	1.4	16	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-02	2024	9	2	16.8	16.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-03	2024	9	3	12.9	0.2	32	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-04	2024	9	4	15	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-05	2024	9	5	15.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-06	2024	9	6	14.8	3.8	11	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-07	2024	9	7	18.7	46	10	52
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-08	2024	9	8	15.2	15.4	19	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-09	2024	9	9	13.7	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-10	2024	9	10	14.6	3.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-11	2024	9	11	13.8	1.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-12	2024	9	12	15.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-13	2024	9	13	18.5	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-14	2024	9	14	13.4	0	33	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-15	2024	9	15	14.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-16	2024	9	16	16.4	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-17	2024	9	17	19.8	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-18	2024	9	18	20.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-19	2024	9	19	18.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-20	2024	9	20	16.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-21	2024	9	21	15.3	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-22	2024	9	22	13.4	0	13	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-23	2024	9	23	13	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-24	2024	9	24	13.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-25	2024	9	25	13.3	0.6		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-26	2024	9	26	13	9.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-27	2024	9	27	15.6	8.2	31	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-28	2024	9	28	14.1	0.4	1	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-29	2024	9	29	13.7	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-09-30	2024	9	30	15.3	0	36	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-01	2024	10	1	11.8	0	2	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-02	2024	10	2	10.9	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-03	2024	10	3	12.5	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-04	2024	10	4	13	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-05	2024	10	5	14	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-06	2024	10	6	14.4	1		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-07	2024	10	7	13.4	17.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-08	2024	10	8	13.2	22.6	14	42
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-09	2024	10	9	10.9	3.8		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-10	2024	10	10	9	1.2	30	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-11	2024	10	11	9.3	0.2	27	41
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-12	2024	10	12	12.5	2.4	29	55
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-13	2024	10	13	10.2	0	29	36
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-14	2024	10	14	12.7	25.8	22	42
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-15	2024	10	15	9.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-16	2024	10	16	6.6	0.2	29	38
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-17	2024	10	17	6			
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-18	2024	10	18	7		4	39
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-19	2024	10	19	9			
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-20	2024	10	20	10.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-21	2024	10	21	13.2	0.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-22	2024	10	22	10.6	0		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-23	2024	10	23	10.1	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-24	2024	10	24	13.3	4.4	31	41
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-25	2024	10	25	8.3	0.4	33	50
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-26	2024	10	26	7.2		31	31
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-27	2024	10	27	3.4		30	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-28	2024	10	28	1.3		29	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-29	2024	10	29	1.8			
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-30	2024	10	30	3.5		18	34
-63.66	44.75	BEDFORD RANGE	8200574	2024-10-31	2024	10	31	12.6	0.2		

Table 48: 2024 Daily Weather Data - Melvin Lake Wind Farm Project

Project #24-9856

Longitude (x)	Latitude (y)	Station Name	Climate ID	Date/Time	Year	Month	Day	Mean Temp (°C)	Total Precip (mm)	Dir of Max Gust (10s deg)	Spd of Max Gust (km/h)
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-01	2024	11	1	12.2		30	40
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-02	2024	11	2	3.6	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-03	2024	11	3	1.9		31	35
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-04	2024	11	4	1.7			
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-05	2024	11	5	7.2	7.4		
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-06	2024	11	6	14.8	0.2		
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-07	2024	11	7	4.4		31	32
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-08	2024	11	8	4.5		21	43
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-09	2024	11	9	3.3	0.4	32	55
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-10	2024	11	10	3.2		30	33
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-11	2024	11	11	7.9	5.8	18	45
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-12	2024	11	12	8.4	0	32	49
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-13	2024	11	13	1.8	0.2	34	63
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-14	2024	11	14	2.4	0	3	59
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-15	2024	11	15				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-16	2024	11	16				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-17	2024	11	17				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-18	2024	11	18				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-19	2024	11	19				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-20	2024	11	20				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-21	2024	11	21				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-22	2024	11	22				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-23	2024	11	23				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-24	2024	11	24				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-25	2024	11	25				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-26	2024	11	26				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-27	2024	11	27				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-28	2024	11	28				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-29	2024	11	29				
-63.66	44.75	BEDFORD RANGE	8200574	2024-11-30	2024	11	30				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-01	2024	12	1				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-02	2024	12	2				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-03	2024	12	3				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-04	2024	12	4				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-05	2024	12	5				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-06	2024	12	6				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-07	2024	12	7				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-08	2024	12	8				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-09	2024	12	9				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-10	2024	12	10				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-11	2024	12	11				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-12	2024	12	12				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-13	2024	12	13				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-14	2024	12	14				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-15	2024	12	15				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-16	2024	12	16				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-17	2024	12	17				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-18	2024	12	18				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-19	2024	12	19				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-20	2024	12	20				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-21	2024	12	21				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-22	2024	12	22				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-23	2024	12	23				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-24	2024	12	24				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-25	2024	12	25				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-26	2024	12	26				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-27	2024	12	27				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-28	2024	12	28				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-29	2024	12	29				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-30	2024	12	30				
-63.66	44.75	BEDFORD RANGE	8200574	2024-12-31	2024	12	31				



Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Project # 24-9856

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Alder Flycatcher	ALFL	6	Not Listed	Not Listed	Not Listed	S5B	Empidonax alnorum		Waterfowl	1
American Bittern	AMBI	3	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	Botaurus lentiginosus	Yes	Shorebirds	2
American Black Duck	ABDU	1	Not Listed	Not Listed	Not Listed	S5B,S5N	Anas rubripes		Other waterbirds	3
American Black Duck x Mallard	MBDH	1	#N/A	#N/A	#N/A	#N/A	Anas platyrhynchos x rubripes		Diurnal Raptors	4
American Coot	AMCO	2	Not Listed	Not at Risk	Not Listed	S1B	Fulica americana	Yes	Nocturnal Raptors	5
American Crow	AMCR	6	Not Listed	Not Listed	Not Listed	S5	Corvus brachyrhynchos		Passerines	6
American Goldfinch	AMGO	6	Not Listed	Not Listed	Not Listed	S5	Spinus tristis		Other Landbirds	7
American Kestrel	AMKE	4	Not Listed	Not Listed	Not Listed	S3B,S4S5M	Falco sparverius	Yes		
American Oystercatcher	AMOY	2	Not Listed	Not Listed	Not Listed	SNRB	Haematopus palliatus			
American Pipit	AMPI	6	Not Listed	Not Listed	Not Listed	S4M	Anthus rubescens			
American Redstart	AMRE	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga ruticilla			
American Robin	AMRO	6	Not Listed	Not Listed	Not Listed	S5B,S3N	Turdus migratorius	Yes		
American Three-toed Woodpecker	ATTW	7	Not Listed	Not Listed	Not Listed	S1?	Picoides dorsalis	Yes		
American Tree Sparrow	ATSP	6	Not Listed	Not Listed	Not Listed	S5N	Spizella arborea			
American Wigeon	AMWI	1	Not Listed	Not Listed	Not Listed	S4B,S4S5M	Mareca americana			
American Woodcock	AMWO	2	Not Listed	Not Listed	Not Listed	S5B	Scolopax minor			
Arctic Tern	ARTE	2	Not Listed	Not Listed	Not Listed	S3B	Sterna paradisaea	Yes		
Atlantic Puffin	ATPU	2	Not Listed	Not Listed	Not Listed	S2B	Fratercula arctica	Yes		
Bald Eagle	BAEA	4	Not Listed	Not at Risk	Not Listed	S5	Haliaeetus leucocephalus			
Baltimore Oriole	BAOR	6	Not Listed	Not Listed	Not Listed	S2S3B,SUM	Icterus galbula	Yes		
Bank Swallow	BANS	6	Threatened	Threatened	Endangered	S2B	Riparia riparia	Yes		
Barn Swallow	BARS	6	Threatened	Special Concern	Endangered	S3B	Hirundo rustica	Yes		
Barred Owl	BDOW	5	Not Listed	Not Listed	Not Listed	S5	Strix varia			
Barrow's Goldeneye	BAGO	1	Special Concern	Special Concern	Not Listed	S1N,SUM	Bucephala islandica	Yes		
Bay-breasted Warbler	BBWA	6	Not Listed	Not Listed	Not Listed	S3S4B,S4S5M	Setophaga castanea	Yes		
Belted Kingfisher	BEKI	3	Not Listed	Not Listed	Not Listed	S4S5B	Megasceryle alcyon			
Bicknell's Thrush	BITH	6	Threatened	Threatened	Endangered	S1B	Catharus bicknelli	Yes		
Black Guillemot	BLGU	2	Not Listed	Not Listed	Not Listed	S4B	Cephus grylle			
Black Scoter	BLSC	1	Not Listed	Not Listed	Not Listed	S4N,SUM	Melanitta americana	Yes		
Black Tern	BLTE	2	Not Listed	Not at Risk	Not Listed	S1B	Chlidonias niger	Yes		
Black-and-white Warbler	BAWW	6	Not Listed	Not Listed	Not Listed	S5B	Mniotilta varia			
Black-backed Woodpecker	BBWO	7	Not Listed	Not Listed	Not Listed	S3S4	Picoides arcticus	Yes		
Black-bellied Plover								Yes		
Black-billed Cuckoo	BBCU	7	Not Listed	Not Listed	Not Listed	S3B	Coccyzus erythrophthalmus	Yes		
Blackburnian Warbler	BLBW	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Setophaga fusca			
Black-capped Chickadee	BCCH	6	Not Listed	Not Listed	Not Listed	S5	Poecile atricapilla			
Black-crowned Night-Heron	BCNH	3	Not Listed	Not Listed	Not Listed	S1B	Nycticorax nycticorax	Yes		
Black-headed Gull	BHGU	2	Not Listed	Not Listed	Not Listed	S3N	Chroicocephalus ridibundus	Yes		
Black-legged Kittiwake	BLKI	2	Not Listed	Not Listed	Not Listed	S2S3B	Rissa tridactyla	Yes		
Blackpoll Warbler	BLPW	6	Not Listed	Not Listed	Not Listed	S3B,S5M	Setophaga striata	Yes		
Black-throated Blue Warbler	BTBW	6	Not Listed	Not Listed	Not Listed	S5	Setophaga caerulea			
Black-throated Green Warbler	BTNW	6	Not Listed	Not Listed	Not Listed	S5	Setophaga virens			
Blue Jay	BLJA	6	Not Listed	Not Listed	Not Listed	S5	Cyanocitta cristata			
Blue-gray Gnatcatcher	BGGN	6	Not Listed	Not Listed	Not Listed	SNA	Poliophtila caerulea			
Blue-headed Vireo	BHVI	6	Not Listed	Not Listed	Not Listed	S5B	Vireo solitarius			
Blue-winged Teal	BWTE	1	Not Listed	Not Listed	Not Listed	S3B	Spatula discors	Yes		
Blue-winged Warbler	BWWA	6	Not Listed	Not Listed	Not Listed	SNA	Vermivora cyanoptera			
Bobolink	BOBO	6	Threatened	Special Concern	Vulnerable	S3B	Dolichonyx oryzivorus	Yes		
Bohemian Waxwing	BOWA	6	Not Listed	Not Listed	Not Listed	S4N	Bombycilla garrulus			
Bonaparte's Gull	BOGU	2	Not Listed	Not Listed	Not Listed	S5M	Chroicocephalus philadelphia			
Boreal Chickadee	BOCH	6	Not Listed	Not Listed	Not Listed	S3	Poecile hudsonica	Yes		

Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Boreal Owl	BOOW	5	Not Listed	Not at Risk	Not Listed	S2?B,SUM	Aegolius funereus	Yes		
Broad-winged Hawk	BWHA	4	Not Listed	Not Listed	Not Listed	S5B	Buteo platypterus			
Brown Creeper	BRCR	6	Not Listed	Not Listed	Not Listed	S5	Certhia americana			
Brown Thrasher	BRTH	6	Not Listed	Not Listed	Not Listed	S1B	Toxostoma rufum	Yes		
Brown-headed Cowbird	BHCO	6	Not Listed	Not Listed	Not Listed	S2B	Molothrus ater	Yes		
Canada Goose	CAGO	1	Not Listed	Not Listed	Not Listed	SUB,S4N,S5M	Branta canadensis	Yes		
Canada Jay	CAJA	6	Not Listed	Not Listed	Not Listed	S3	Perisoreus canadensis	Yes		
Canada Warbler	CAWA	6	Threatened	Special Concern	Endangered	S3B	Cardellina canadensis	Yes		
Cape May Warbler	CMWA	6	Not Listed	Not Listed	Not Listed	S3B,SUM	Setophaga tigrina	Yes		
Carolina Wren	CARW	6	Not Listed	Not Listed	Not Listed	SNA	Thryothorus ludovicianus			
Caspian Tern	CATE	2	Not Listed	Not at Risk	Not Listed	SNA	Hydroprogne caspia			
Cattle Egret	CAEG	3	Not Listed	Not Listed	Not Listed	SNA	Bubulcus ibis			
Cedar Waxwing	CEDW	6	Not Listed	Not Listed	Not Listed	S5B	Bombycilla cedrorum			
Chestnut-sided Warbler	CSWA	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga pensylvanica			
Chimney Swift	CHSW	6	Threatened	Threatened	Endangered	S2S3B,S1M	Chaetura pelagica	Yes		
Chipping Sparrow	CHSP	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Spizella passerina			
Chuck-will's-widow	CWWI	6	Not Listed	Not Listed	Not Listed	SNA	Anrostomus carolinensis			
Chukar	CHUK	7	#N/A	#N/A	#N/A	#N/A	Alectoris chukar			
Clay-colored Sparrow	CCSP	6	Not Listed	Not Listed	Not Listed	SNA	Spizella pallida			
Cliff Swallow	CLSW	6	Not Listed	Not Listed	Not Listed	S2S3B	Petrochelidon pyrrhonota	Yes		
Common Eider	COEI	1	Not Listed	Not Listed	Not Listed	S3B,S3M,S3N	Somateria mollissima	Yes		
Common Gallinule	COMO	3	Not Listed	Not Listed	Not Listed	S1B	Gallinula galeata	Yes		
Common Goldeneye	COGO	1	Not Listed	Not Listed	Not Listed	S2S3B,S5N,S5M	Bucephala clangula	Yes		
Common Grackle	COGR	6	Not Listed	Not Listed	Not Listed	S5B	Quiscalus quiscula			
Common Loon	COLO	3	Not Listed	Not at Risk	Not Listed	S4B	Gavia immer			
Common Merganser	COME	2	Not Listed	Not Listed	Not Listed	S5B,S5M,S5N	Mergus merganser			
Common Murre	COMU	2	Not Listed	Not Listed	Not Listed	S1?B	Uria aalge	Yes		
Common Nighthawk	CONI	6	Special Concern	Special Concern	Threatened	S3B	Chordeiles minor	Yes		
Common Raven	CORA	6	Not Listed	Not Listed	Not Listed	S5	Corvus corax			
Common Redpoll	CORE	6	Not Listed	Not Listed	Not Listed	S5N	Acanthis flammea			
Common Tern	COTE	2	Not Listed	Not at Risk	Not Listed	S3B	Sterna hirundo	Yes		
Common Yellowthroat	COYE	6	Not Listed	Not Listed	Not Listed	S5B	Geothlypis trichas			
Cooper's Hawk	COHA	4	Not Listed	Not at Risk	Not Listed	S1?B,SUN,SUM	Accipiter cooperii	Yes		
Dark-eyed Junco	DEJU	6	Not Listed	Not Listed	Not Listed	S4S5	Junco hyemalis			
Dickcissel	DICK	6	Not Listed	Not Listed	Not Listed	SNA	Spiza americana			
Double-crested Cormorant	DCCO	2	Not Listed	Not at Risk	Not Listed	S5B	Nannopterum auritum			
Downy Woodpecker	DOWO	7	Not Listed	Not Listed	Not Listed	S5	Dryobates pubescens			
Eastern Bluebird	EABL	6	Not Listed	Not at Risk	Not Listed	S3B	Sialia sialis	Yes		
Eastern Kingbird	EAKI	6	Not Listed	Not Listed	Not Listed	S3B	Tyrannus tyrannus	Yes		
Eastern Meadowlark	EAME	6	Threatened	Threatened	Not Listed	SHB	Sturnella magna	Yes		
Eastern Phoebe	EAPH	6	Not Listed	Not Listed	Not Listed	S4S5B,S4M	Sayornis phoebe			
Eastern Screech-Owl	EASO	5	Not Listed	Not at Risk	Not Listed	SNA	Megascops asio			
Eastern Towhee	EATO	6	Not Listed	Not Listed	Not Listed	SNA	Pipilo erythrophthalmus			
Eastern Whip-poor-will	WPWI	7	Threatened	Special Concern	Threatened	S1?B	Anrostomus vociferus	Yes		
Eastern Wood-Pewee	EAWP	6	Special Concern	Special Concern	Vulnerable	S3S4B	Contopus virens	Yes		
Eurasian Collared-Dove	ECDO	7	Not Listed	Not Listed	Not Listed	SNA	Streptopelia decaocto			
Eurasian Wigeon	EUWI	1	Not Listed	Not Listed	Not Listed	SNA	Mareca penelope			
European Starling	EUST	6	Not Listed	Not Listed	Not Listed	SNA	Sturnus vulgaris			
Evening Grosbeak	EVGR	6	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	Coccothraustes vespertinus	Yes		
Field Sparrow	FISP	6	Not Listed	Not Listed	Not Listed	SNA	Spizella pusilla			
Forster's Tern	FOTE	2	Not Listed	Not Listed	Not Listed	SNA	Sterna forsteri			

Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Fox Sparrow	FOSP	6	Not Listed	Not Listed	Not Listed	S3S4B,S5M	Passerella iliaca	Yes		
Gadwall	GADW	1	Not Listed	Not Listed	Not Listed	S2B,SUM	Mareca strepera	Yes		
Glossy Ibis	GLIB	3	Not Listed	Not Listed	Not Listed	SNA	Plegadis falcinellus			
Golden Eagle	GOEA	4	Not Listed	Not at Risk	Not Listed	SNA	Aquila chrysaetos			
Golden-crowned Kinglet	GCKI	6	Not Listed	Not Listed	Not Listed	S5	Regulus satrapa			
Grasshopper Sparrow										
Great Black-backed Gull	GBBG	2	Not Listed	Not Listed	Not Listed	S4S5	Larus marinus			
Great Blue Heron	GBHE	3	Not Listed	Not Listed	Not Listed	S4B,S4S5M	Ardea herodias			
Great Cormorant	GRCO	2	Not Listed	Not Listed	Not Listed	S2S3B,S2S3N	Phalacrocorax carbo	Yes		
Great Crested Flycatcher	GCFL	6	Not Listed	Not Listed	Not Listed	S1B	Myiarchus crinitus	Yes		
Great Horned Owl	GHOW	5	Not Listed	Not Listed	Not Listed	S4	Bubo virginianus			
Greater Scaup	GRSC	1	Not Listed	Not Listed	Not Listed	S4N,SUM	Aythya marila	Yes		
Greater Yellowlegs	GRYE	2	Not Listed	Not Listed	Not Listed	S3B,S4M	Tringa melanoleuca	Yes		
Green Heron	GRHE	3	Not Listed	Not Listed	Not Listed	SNA	Butorides virescens			
Green-winged Teal	GWTE	1	Not Listed	Not Listed	Not Listed	S4S5B,S5M	Anas crecca			
Grey Catbird	GRCA	6	Not Listed	Not Listed	Not Listed	S4B	Dumetella carolinensis			
Grey Partridge	GRPA	7	Not Listed	Not Listed	Not Listed	SNA	Perdix perdix			
Grey-cheeked Thrush	GCTH	6	Not Listed	Not Listed	Not Listed	SUB	Catharus minimus	Yes		
Hairy Woodpecker	HAWO	7	Not Listed	Not Listed	Not Listed	S5	Dryobates villosus			
Harlequin Duck	HARD	1	Special Concern	Special Concern	Endangered		Histrionicus histrionicus pop. 1	Yes		
Helmeted Guineafowl	HELG		#N/A	#N/A	#N/A	#N/A	Numida meleagris			
Hermit Thrush	HETH	6	Not Listed	Not Listed	Not Listed	S5B	Catharus guttatus			
Herring Gull	HERG	2	Not Listed	Not Listed	Not Listed	S5	Larus argentatus			
Hooded Merganser	HOME	2	Not Listed	Not Listed	Not Listed	S5B	Lophodytes cucullatus			
Hooded Warbler	HOWA	6	Not Listed	Not at Risk	Not Listed	SNA	Setophaga citrina			
Horned Lark	HOLA	6	Not Listed	Not Listed	Not Listed	SHB,S4S5N,S5M	Eremophila alpestris	Yes		
House Finch	HOFI	6	Not Listed	Not Listed	Not Listed	SNA	Haemorhous mexicanus			
House Sparrow	HOSP	6	Not Listed	Not Listed	Not Listed	SNA	Passer domesticus			
House Wren	HOWR	6	Not Listed	Not Listed	Not Listed	SNA	Troglodytes aedon			
Indigo Bunting	INBU	6	Not Listed	Not Listed	Not Listed	S1?B,SUM	Passerina cyanea	Yes		
Killdeer	KILL	2	Not Listed	Not Listed	Not Listed	S3B	Charadrius vociferus	Yes		
King Rail	KIRA	3	Endangered	Endangered	Not Listed	SNA	Rallus elegans	Yes		
Lapland Longspur	LALO	6	Not Listed	Not Listed	Not Listed	S3?N,SUM	Calcarius lapponicus	Yes		
Laughing Gull	LAGU	2	Not Listed	Not Listed	Not Listed	SHB	Leucophaeus atricilla	Yes		
Leach's Storm-Petrel	LHSP	3	Under Consideration	Threatened	Not Listed	S3B	Hydrobates leucorhous	Yes		
Least Bittern	LEBI	3	Threatened	Threatened	Not Listed	SUB	Ixobrychus exilis	Yes		
Least Flycatcher	LEFL	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	Empidonax minimus			
Least Sandpiper	LESA	2	Not Listed	Not Listed	Not Listed	S1B,S4M	Calidris minutilla	Yes		
LeConte's Sparrow	LCSP	6	Not Listed	Not Listed	Not Listed	SNA	Ammodramus leconteii			
Lesser Scaup	LESC	1	Not Listed	Not Listed	Not Listed	SUM	Aythya affinis	Yes		
Lesser Yellowlegs	LEYE	2	Under Consideration	Threatened	Not Listed	S3M	Tringa flavipes	Yes		
Lincoln's Sparrow	LISP	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Melospiza lincolni			
Loggerhead Shrike	LOSH	6	Not Listed	Not Active	Not Listed	SXB	Lanius ludovicianus	Yes		
Long-eared Owl	LEOW	4	Not Listed	Not Listed	Not Listed	S2S3	Asio otus	Yes		
Louisiana Waterthrush	LOWA	6	Threatened	Threatened	Not Listed	SNA	Parkesia motacilla			
Magnolia Warbler	MAWA	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga magnolia			
Mallard	MALL	1	Not Listed	Not Listed	Not Listed	S5B,S5N	Anas platyrhynchos			
Manx Shearwater	MASH	3	Not Listed	Not Listed	Not Listed	S1?B	Puffinus puffinus	Yes		
Marsh Wren	MAWR	6	Not Listed	Not Listed	Not Listed	S1B	Cistothorus palustris	Yes		
Merlin	MERL	4	Not Listed	Not at Risk	Not Listed	S5B	Falco columbarius			
Mourning Dove	MODO	7	Not Listed	Not Listed	Not Listed	S5	Zenaida macroura			

Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Mourning Warbler	MOWA	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Geothlypis philadelphia			
Nashville Warbler	NAWA	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Leiothlypis ruficapilla			
Nelson's Sparrow	NSTS	6	Not Listed	Not at Risk	Not Listed	S3S4B	Ammodramus nelsoni	Yes		
NO BIRDS	NO BI	x	x	x	x	x	x	x		
Northern Bobwhite	NOBO	7	#N/A	#N/A	#N/A	#N/A	Colinus virginianus			
Northern Cardinal	NOCA	6	Not Listed	Not Listed	Not Listed	S4	Cardinalis cardinalis			
Northern Flicker	NOFL	7	Not Listed	Not Listed	Not Listed	S5B	Colaptes auratus			
Northern Gannet	NOGA	3	Not Listed	Not Listed	Not Listed	SHB	Morus bassanus	Yes		
Northern Goshawk	NOGO	4	Not Listed	Not at Risk	Not Listed	S3S4	Accipiter gentilis	Yes		
Northern Harrier	NOHA	4	Not Listed	Not at Risk	Not Listed	S4B,S4S5M	Circus hudsonius			
Northern Hawk Owl	NHOW	5	Not Listed	Not at Risk	Not Listed	SNA	Surnia ulula			
Northern Mockingbird	NOMO	6	Not Listed	Not Listed	Not Listed	S1B	Mimus polyglottos	Yes		
Northern Parula	NOPA	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga americana			
Northern Pintail	NOPI	1	Not Listed	Not Listed	Not Listed	S1B,SUM	Anas acuta	Yes		
Northern Rough-winged Swallow	NRWS	6	Not Listed	Not Listed	Not Listed	SNA	Stelgidopteryx serripennis			
Northern Saw-whet Owl	NSWO	5	Not Listed	Not Listed	Not Listed	S4B,SUM	Aegolius acadicus	Yes		
Northern Shoveler	NSHO	1	Not Listed	Not Listed	Not Listed	S2B,SUM	Spatula clypeata	Yes		
Northern Waterthrush	NOWA	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Parkesia noveboracensis			
Northern Wheatear	NOWH	6	Not Listed	Not Listed	Not Listed	SNA	Oenanthe oenanthe			
Olive-sided Flycatcher	OSFL	6	Special Concern	Special Concern	Threatened	S3B	Contopus cooperi	Yes		
Orchard Oriole	OROR	6	Not Listed	Not Listed	Not Listed	SNA	Icterus spurius			
Osprey	OSPR	4	Not Listed	Not Listed	Not Listed	S4S5B,S5M	Pandion haliaetus			
Ovenbird	OVEN	6	Not Listed	Not Listed	Not Listed	S5B	Seiurus aurocapilla			
Palm Warbler	PAWA	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga palmarum			
Peregrine Falcon	PEFA	4	Check subspec	Check subspecie	Vulnerable	S1B,SUM	Falco peregrinus	Yes		
Philadelphia Vireo	PHVI	6	Not Listed	Not Listed	Not Listed	S2?B,SUM	Vireo philadelphicus	Yes		
Pied-billed Grebe	PBGR	3	Not Listed	Not Listed	Not Listed	S4B	Podilymbus podiceps			
Pileated Woodpecker	PIWO	7	Not Listed	Not Listed	Not Listed	S5	Dryocopus pileatus			
Pine Grosbeak	PIGR	6	Not Listed	Not Listed	Not Listed	S3B,S5N,S5M	Pinicola enucleator	Yes		
Pine Siskin	PISI	6	Not Listed	Not Listed	Not Listed	S3	Spinus pinus	Yes		
Pine Warbler	PIWA	6	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	Setophaga pinus	Yes		
Piping Plover	PIPL	2	Check subspec	Check subspecie	Endangered	S1B	Charadrius melodus	Yes		
Purple Finch	PUFI	6	Not Listed	Not Listed	Not Listed	S4S5B,S3S4N,S5M	Haemorhous purpureus	Yes		
Purple Gallinule	PUGA	3	Not Listed	Not Listed	Not Listed	SNA	Porphyrio martinica			
Purple Martin	PUMA	6	Not Listed	Not Listed	Not Listed	SHB	Progne subis	Yes		
Razorbill	RAZO	2	Not Listed	Not Listed	Not Listed	S2B	Alca torda	Yes		
Red Crossbill	RECR	6	Not Listed	Not Listed	Not Listed	S3S4	Loxia curvirostra	Yes		
Red-bellied Woodpecker	RBWO	7	Not Listed	Not Listed	Not Listed	SU	Melanerpes carolinus	Yes		
Red-breasted Merganser	RBME	2	Not Listed	Not Listed	Not Listed	S3S4B,S5M,S5N	Mergus serrator	Yes		
Red-breasted Nuthatch	RBNU	6	Not Listed	Not Listed	Not Listed	S4S5	Sitta canadensis			
Red-eyed Vireo	REVI	6	Not Listed	Not Listed	Not Listed	S5B	Vireo olivaceus			
Redhead	REDH	1	Not Listed	Not Listed	Not Listed	SHB	Aythya americana	Yes		
Red-headed Woodpecker	RHWO	7	Endangered	Endangered	Not Listed	SNA	Melanerpes erythrocephalus	Yes		
Red-shouldered Hawk	RSHA	4	Not Listed	Not at Risk	Not Listed	SNA	Buteo lineatus			
Red-tailed Hawk	RTHA	4	Not Listed	Not at Risk	Not Listed	S5	Buteo jamaicensis			
Red-winged Blackbird	RWBL	6	Not Listed	Not Listed	Not Listed	S4B	Agelaius phoeniceus			
Ring-billed Gull	RBGU	2	Not Listed	Not Listed	Not Listed	SUB,S5N	Larus delawarensis	Yes		
Ring-necked Duck	RNDU	1	Not Listed	Not Listed	Not Listed	S5B	Aythya collaris			
Ring-necked Pheasant	RIPH	7	Not Listed	Not Listed	Not Listed	SNA	Phasianus colchicus			
Rock Pigeon	ROPI	7	Not Listed	Not Listed	Not Listed	SNA	Columba livia			
Roseate Tern	ROST	2	Endangered	Endangered	Endangered	S1B	Sterna dougallii	Yes		



Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Rose-breasted Grosbeak	RBGR	6	Not Listed	Not Listed	Not Listed	S3B	Pheucticus ludovicianus	Yes		
Rough-legged Hawk	RLHA	4	Not Listed	Not at Risk	Not Listed	S3N	Buteo lagopus	Yes		
Ruby-crowned Kinglet	RCKI	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Corthylio calendula			
Ruby-throated Hummingbird	RTHU	6	Not Listed	Not Listed	Not Listed	S5B	Archilochus colubris			
Ruddy Duck	RUDU	1	Not Listed	Not Listed	Not Listed	S1B	Oxyura jamaicensis	Yes		
Ruffed Grouse	RUGR	7	Not Listed	Not Listed	Not Listed	S5	Bonasa umbellus			
Rusty Blackbird	RUBL	6	Special Concern	Special Concern	Endangered	S2B	Euphagus carolinus	Yes		
Sandhill Crane	SACR	3	Not Listed	Not Listed	Not Listed	SNA	Grus canadensis			
Savannah Sparrow	SAVS	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	Passerculus sandwichensis			
Savannah Sparrow (Ipswich)	IPSP	6	Special Concern	Special Concern	Not Listed	S1B	Passerculus sandwichensis princeps	Yes		
Scarlet Tanager	SCTA	6	Not Listed	Not Listed	Not Listed	S2B,SUM	Piranga olivacea	Yes		
Sedge Wren	SEWR	6	Not Listed	Not Listed	Not Listed	SNA	Cistothorus stellaris			
Semipalmated Plover	SEPL	2	Not Listed	Not Listed	Not Listed	S1B,S4M	Charadrius semipalmatus	Yes		
Semipalmated Sandpiper	SESA	2	Not Listed	Not Listed	Not Listed	S3M	Calidris pusilla	Yes		
Sharp-shinned Hawk	SSHA	4	Not Listed	Not at Risk	Not Listed	S5	Accipiter striatus			
Sharp-tailed Grouse	STGR	7	#N/A	#N/A	#N/A	#N/A	Tympanuchus phasianellus			
Short-billed Dowitcher	SBDO					S3M	Limnodromus griseus	Yes		
Short-eared Owl	SEOW	5	Special Concern	Threatened	Not Listed	S1B	Asio flammeus	Yes		
Snowy Egret	SNEG	3	Not Listed	Not Listed	Not Listed	SNA	Egretta thula			
Solitary Sandpiper	SOSA	2	Not Listed	Not Listed	Not Listed	SUB,S3S4M	Tringa solitaria	Yes		
Song Sparrow	SOSP	6	Not Listed	Not Listed	Not Listed	S5B	Melospiza melodia			
Sora	SORA	3	Not Listed	Not Listed	Not Listed	S5B	Porzana carolina			
Spotted Sandpiper	SPSA	2	Not Listed	Not Listed	Not Listed	S3S4B,S5M	Actitis macularius	Yes		
Spruce Grouse	SPGR	7	Not Listed	Not Listed	Not Listed	S4	Canachites canadensis			
Summer Tanager	SUTA	6	Not Listed	Not Listed	Not Listed	SNA	Piranga rubra			
Surf Scoter	N/A	N/A	Not Listed	Not Listed	Not Listed	S2N,S4M	Melanitta perspicillata	Yes		
Swainson's Thrush	SWTH	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Catharus ustulatus			
Swamp Sparrow	SWSP	6	Not Listed	Not Listed	Not Listed	S5B	Melospiza georgiana			
Tennessee Warbler	TEWA	6	Not Listed	Not Listed	Not Listed	S3S4B,S5M	Leiothlypis peregrina	Yes		
Thick-billed Murre	TBMU	2	Not Listed	Not Listed	Not Listed	S5N	Uria lomvia			
Tree Swallow	TRES	6	Not Listed	Not Listed	Not Listed	S4B	Tachycineta bicolor			
Tufted Titmouse	TUTI	6	Not Listed	Not Listed	Not Listed	SNA	Baeolophus bicolor			
Turkey Vulture	TUVU	4	Not Listed	Not Listed	Not Listed	S2S3B,S4S5M	Cathartes aura	Yes		
Unknown	UNKN	n/a	#N/A	#N/A	#N/A	#N/A				
Upland Sandpiper	UPSA	2	Not Listed	Not Listed	Not Listed	SNA	Bartramia longicauda			
Veery	VEER	6	Not Listed	Not Listed	Not Listed	S4B	Catharus fuscescens			
Vesper Sparrow	VESP	6	#N/A	#N/A	#N/A	S1S2B,SUM	Pooecetes gramineus	Yes		
Virginia Rail	VIRA	3	Not Listed	Not Listed	Not Listed	S2S3B	Rallus limicola	Yes		
Warbling Vireo	WAVI	6	Not Listed	Not Listed	Not Listed	S1B,SUM	Vireo gilvus	Yes		
White-breasted Nuthatch	WBNU	6	Not Listed	Not Listed	Not Listed	S4	Sitta carolinensis			
White-crowned Sparrow	WCSP	6	Not Listed	Not Listed	Not Listed	SUM	Zonotrichia leucophrys	Yes		
White-throated Sparrow	WTSP	6	Not Listed	Not Listed	Not Listed	S4S5B,S5M	Zonotrichia albicollis			
White-winged Crossbill	WWCR	6	Not Listed	Not Listed	Not Listed	S4S5	Loxia leucoptera			
White-winged Dove	WWDO	7	Not Listed	Not Listed	Not Listed	SNA	Zenaida asiatica			
Wild Turkey	WITU	7	#N/A	#N/A	#N/A	#N/A	Meleagris gallopavo			
Willet	WILL	2	Not Listed	Not Listed	Not Listed	S3B	Tringa semipalmata	Yes		
Willow Flycatcher	WIFL	6	Not Listed	Not Listed	Not Listed	S2B	Empidonax traillii	Yes		
Willow Ptarmigan	WIPT	7	Not Listed	Not Listed	Not Listed	SNA	Lagopus lagopus			
Wilson's Phalarope	WIPH	2	Not Listed	Not Listed	Not Listed	SNA	Phalaropus tricolor			
Wilson's Snipe	WISN	2	Not Listed	Not Listed	Not Listed	S3B,S5M	Gallinago delicata	Yes		
Wilson's Warbler	WIWA	6	Not Listed	Not Listed	Not Listed	S3B,S5M	Cardellina pusilla	Yes		

Table 49: Bird Codes and SAR/SOCI Status - Melvin Lake Wind Project

Project # 24-9856

Common Name	CODE	Group	SARA	COSEWIC	ESA	NS S-rank	Scientific Name	SOCI?	Bird Group	Group #
Winter Wren	WIWR	6	Not Listed	Not Listed	Not Listed	S5B	Troglodytes hiemalis			
Wood Duck	WODU	1	Not Listed	Not Listed	Not Listed	S5B	Aix sponsa			
Wood Thrush	WOTH	6	Threatened	Threatened	Not Listed	SUB	Hylocichla mustelina	Yes		
Yellow Rail	YERA	3	Special Concern	Special Concern	Not Listed	SUB	Coturnicops noveboracensis	Yes		
Yellow Warbler	YWAR	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga petechia			
Yellow-bellied Flycatcher	YBFL	6	Not Listed	Not Listed	Not Listed	S4B,S5M	Empidonax flaviventris			
Yellow-bellied Sapsucker	YBSA	7	Not Listed	Not Listed	Not Listed	S5B	Sphyrapicus varius			
Yellow-billed Cuckoo	YBCU	7	Not Listed	Not Listed	Not Listed	SNA	Coccyzus americanus			
Yellow-breasted Chat	YBCH	6	Endangered	Endangered	Not Listed	SNA	Icteria virens	Yes		
Yellow-headed Blackbird	YHBL	6	Not Listed	Not Listed	Not Listed	SNA	Xanthocephalus xanthocephalus			
Yellow-rumped Warbler	YRWA	6	Not Listed	Not Listed	Not Listed	S5B	Setophaga coronata			
Yellow-throated Vireo	YTVI	6	Not Listed	Not Listed	Not Listed	SNA	Vireo flavifrons			



Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	NOFL	Northern Flicker	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	MALL/ABDU	Mallard or American Black Duck	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	AMCR	American Crow	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	SOSP	Song Sparrow	1	
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	CANG	Canada Goose	2	Flyover
Spring	1-May-24	AM02	20240501_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	1-May-24	AM02	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	1-May-24	AM02	20240501_210100	21:01:00	21:11	AMRO	American Robin	1	
Spring	1-May-24	AM03	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	1-May-24	AM04	20240501_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	1-May-24	AM04	20240501_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	1-May-24	AM04	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	1-May-24	AM05	20240501_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	2	
Spring	1-May-24	AM05	20240501_073000	7:30:00	7:40	PAWA	Palm Warbler	1	
Spring	1-May-24	AM05	20240501_210100	21:01:00	21:11		no birds		No birds
Spring	1-May-24	AM06	20240501_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	1-May-24	AM06	20240501_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	1-May-24	AM06	20240501_073000	7:30:00	7:40	AMCR	American Crow	1	
Spring	1-May-24	AM06	20240501_073000	7:30:00	7:40	ICTERID SP			Could not identify to species
Spring	1-May-24	AM06	20240501_210100	21:01:00	21:11	GRYE	Greater Yellowlegs	1	
Spring	1-May-24	AM07	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	1-May-24	AM08	20240501_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	1-May-24	AM08	20240501_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	1-May-24	AM08	20240501_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	1-May-24	AM09	20240501_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	1-May-24	AM09	20240501_073000	7:30:00	7:40	RUGR	Ruffed Grouse	1	Drumming
Spring	1-May-24	AM09	20240501_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	1-May-24	AM09	20240501_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	1-May-24	AM09	20240501_210100	21:01:00	21:11		no birds		no birds
Spring	1-May-24	AM10	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	WIWR	Winter Wren	2	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	CANG	Canada Goose	20	Group flyovers, number estimated
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	NOFL	Northern Flicker	1	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	AMCR	American Crow	1	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	1-May-24	AM09/ARU1	20240501_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	1-May-24	AM09/ARU1	20240501_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	CANG	Canada Goose	10	Group flyovers, number estimate
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	PAWA	Palm Warbler	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	2	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	AMGO	American Goldfinch	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	2-May-24	AM03	20240502_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	HAWO	Hairy Woodpecker	1	
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	RUGR	Ruffed Grouse	1	Drumming
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	

Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	2-May-24	AM07	20240502_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	2-May-24	AM10	20240502_073000	7:30:00	7:40	BRCR	Brown Creeper	1	
Spring	2-May-24	AM10	20240502_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	2-May-24	AM10	20240502_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	2-May-24	AM10	20240502_073000	7:30:00	7:40	HETH	Hermit Thrush	2	
Spring	2-May-24	AM10	20240502_073000	7:30:00	7:40	COLO	Common Loon	1	Distant, barely audible
Spring	6-May-24	AM01	20240506_210100	21:01:00	21:11		no birds		No birds - noise from spring peepers high
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	BHVI	Blue-headed Vireo	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	SOSP	Song Sparrow	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	BBWA	Bay-breasted Warbler	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	8-May-24	AM01	20240508_073000	7:30:00	7:40	COGR	Common Grackle	1	
Spring	11-May-24	AM02	20240511_073000	7:30:00	7:40		no birds		No birds
Spring	11-May-24	AM02	20240511_210100	21:01:00	21:11		no birds		No birds
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	PAWA	Palm Warbler	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	NOFL	Northern Flicker	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	13-May-24	AM03	20240513_073000	7:30:00	7:40	YWAR	Yellow Warbler	1	
Spring	13-May-24	AM03	20240513_210100	21:01:00	21:11	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM03	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	13-May-24	AM03	20240513_210100	21:01:00	21:11	CANG	Canada Goose	5	Group flyover, hard to tell how many
Spring	13-May-24	AM04	20240513_073000	7:30:00	7:40		no birds		No birds
Spring	13-May-24	AM04	20240513_210100	21:01:00	21:11	GCKI	Golden-crowned Kinglet	1	
Spring	13-May-24	AM05	20240513_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	13-May-24	AM05	20240513_073000	7:30:00	7:40	NOFL	Northern Flicker	1	
Spring	13-May-24	AM05	20240513_073000	7:30:00	7:40	HAWO	Hairy Woodpecker	1	
Spring	13-May-24	AM05	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM05	20240513_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	13-May-24	AM05	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	13-May-24	AM05	20240513_210100	21:01:00	21:11	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM05	20240513_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	13-May-24	AM06	20240513_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	13-May-24	AM06	20240513_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	13-May-24	AM06	20240513_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	13-May-24	AM07	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM07	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	13-May-24	AM07	20240513_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	13-May-24	AM08	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM08	20240513_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	13-May-24	AM08	20240513_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	13-May-24	AM08	20240513_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	

Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Project # 24-9856

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	13-May-24	AM08	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM08	20240513_073000	7:30:00	21:11	GCKI	Golden-crowned Kinglet	1	
Spring	13-May-24	AM08	20240513_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	13-May-24	AM08	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	RUGR	Ruffed Grouse	1	Drumming
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	AMGO	American Goldfinch	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	13-May-24	AM09	20240513_210000	21:01:00	21:11		no birds		No birds heard - spring peepers extremely loud
Spring	13-May-24	AM09	20240513_073000	7:30:00	7:40	CANG	Canada Goose	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	BBWA	Bay-breasted Warbler	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	AMGO	American Goldfinch	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	CANG	Canada Goose	1	
Spring	13-May-24	AM10	20240513_073000	7:30:00	7:40	BLBW	Blackburnian Warbler	1	
Spring	13-May-24	AM10	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	2	
Spring	13-May-24	AM10	20240513_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	BHVI	Blue-headed Vireo	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	CANG	Canada Goose	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	BCCH	Black-capped Chickadee	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	NOFL	Northern Flicker	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	SWSP	Swamp Sparrow	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	13-May-24	AM09/ARU1	20240513_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	13-May-24	AM09/ARU1	20240513_210100	21:01:00	21:11	WTSP	White-throated Sparrow	2	
Spring	13-May-24	AM09/ARU1	20240513_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	25-May-24	AM04	20240525_210100	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	25-May-24	AM04	20240525_210100	21:01:00	21:11	NOFL	Northern Flicker	2	
Spring	25-May-24	AM04	20240525_210100	21:01:00	21:11	WTSP	White-throated Sparrow	1	
Spring	25-May-24	AM04	20240525_073000	7:30:00	7:40		no birds		No birds
Spring	28-May-24	AM09	20240528_210100	21:01:00	21:11		no birds		Spring peepers very loud, could not hear any birds over them
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	OVEN	Ovenbird	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	BBWA	Bay-breasted Warbler	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	SWTH	Swainson's Thrush	1	

Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	29-May-24	AM09	20240529_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	29-May-24	AM01	20240529_210100	21:01:00	21:11	COYE	Common Yellowthroat	2	
Spring	29-May-24	AM01	20240529_210100	21:01:00	21:11	YRWA	Yellow-rumped Warbler	1	
Spring	29-May-24	AM01	20240529_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	BCCH	Black-capped Chickadee	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	NAWA	Nashville Warbler	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	REVI	Red-eyed Vireo	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	30-May-24	AM01	20240530_073000	7:30:00	7:40	BBWA	Bay-breasted Warbler	1	
Spring	30-May-24	AM03	20240530_210100	21:01:00	21:11	HETH	Hermit Thrush	1	Spring peepers very loud. Some kind of animal clawing at the monitor at the end?
Spring	30-May-24	AM03	20240530_210100	21:01:00	21:11	WTSP	White-throated Sparrow	1	
Spring	30-May-24	AM03	20240530_210100	21:01:00	21:11	COYE	Common Yellowthroat	1	
Spring	30-May-24	AM03	20240530_210100	21:01:00	21:11	MAWA	Magnolia Warbler	1	
Spring	30-May-24	AM05	20240530_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	30-May-24	AM05	20240530_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	30-May-24	AM05	20240530_210100	21:01:00	21:11	CONI	Common Nighthawk	1	Call and wing boom
Spring	30-May-24	AM05	20240530_210100	21:01:00	21:11	WIWR	Winter Wren	1	
Spring	30-May-24	AM06	20240530_210100	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	30-May-24	AM06	20240530_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	30-May-24	AM07	20240530_210100	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	30-May-24	AM07	20240530_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	30-May-24	AM07	20240530_210100	21:01:00	21:11	COYE	Common Yellowthroat	1	
Spring	30-May-24	AM07	20240530_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	30-May-24	AM07	20240530_210100	21:01:00	21:11	MAWA	Magnolia Warbler	2	
Spring	30-May-24	AM09/ARU1	20240530_210000	21:01:00	21:11	MAWA	Magnolia Warbler	2	
Spring	30-May-24	AM09/ARU1	20240530_210000	21:01:00	21:11	WTSP	White-throated Sparrow	1	
Spring	30-May-24	AM09/ARU1	20240530_210000	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	30-May-24	AM09/ARU1	20240530_210000	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	30-May-24	AM09/ARU1	20240530_210000	21:01:00	21:11	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	BHVI	Blue-headed Vireo	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	31-May-24	AM01	20240531_073000	7:30:00	7:40	OSFL	Olive-sided Flycatcher	1	Calling throughout recording
Spring	31-May-24	AM01	20240531_210100	21:01:00	21:11	COYE	Common Yellowthroat	2	
Spring	31-May-24	AM01	20240531_210100	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	31-May-24	AM01	20240531_210100	21:01:00	21:11	WIWR	Winter Wren	1	
Spring	31-May-24	AM01	20240531_210100	21:01:00	21:11	CONI	Common Nighthawk	1	Calling frequently
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	ALFL	Alder Flycatcher	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	PAWA	Palm Warbler	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	NAWA	Nashville Warbler	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	MODO	Mourning Dove	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	DOWO	Downy Woodpecker	1	



Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	31-May-24	AM03	20240531_073000	7:30:00	7:40	YBFL	Yellow-bellied Flycatcher	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	SWTH	Swainson's Thrush	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	AMGO	American Goldfinch	1	
Spring	31-May-24	AM05	20240531_073000	7:30:00	7:40	SPSA	Spotted Sandpiper	1	
Spring	31-May-24	AM06	20240531_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	31-May-24	AM06	20240531_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	31-May-24	AM06	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM06	20240531_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	31-May-24	AM06	20240531_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	RUGR	Ruffed Grouse	1	Drumming
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	BLBW	Blackburnian Warbler	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	31-May-24	AM07	20240531_073000	7:30:00	7:40	COLO	Common Loon	1	
Spring	31-May-24	AM08	20240531_073000	7:30:00	7:40	MAWA	Magnolia Warbler	2	
Spring	31-May-24	AM08	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	2	
Spring	31-May-24	AM08	20240531_073000	7:30:00	7:40	YBFL	Yellow-bellied Flycatcher	1	
Spring	31-May-24	AM08	20240531_210100	7:30:00	7:40	SWTH	Swainson's Thrush	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	HETH	Hermit Thrush	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	MAWA	Magnolia Warbler	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	BTBW	Black-throated Blue Warbler	1	
Spring	31-May-24	AM08	20240531_073001	21:01:00	21:11	BAWW	Black-and-white-Warbler	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	BRCR	Brown Creeper	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	SWTH	Swainson's Thrush	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	AMRO	American Robin	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	BBWA	Bay-breasted Warbler	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	BTBW	Black-throated Blue Warbler	1	
Spring	31-May-24	AM10	20240531_073000	7:30:00	7:40	COGR	Common Grackle	1	
Spring	31-May-24	AM10	20240531_210100	21:01:00	21:11	SWTH	Swainson's Thrush	1	
Spring	31-May-24	AM10	20240531_210100	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	MAWA	Magnolia Warbler	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	ALFL	Alder Flycatcher	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	DEJU	Dark-eyed Junco	1	

Table 50: 2024 Spring AudioMoth Data Results - Melvin Lake Wind Project

Project # 24-9856

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	BAWW	Black-and-white-Warbler	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	AMGO	American Goldfinch	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	WTSP	White-throated Sparrow	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	BHVI	Blue-headed Vireo	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	HETH	Hermit Thrush	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	BTNW	Black-throated Green Warbler	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	PAWA	Palm Warbler	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	GCKI	Golden-crowned Kinglet	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	PUFI	Purple Finch	1	Flight call
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	BLJA	Blue Jay	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	OSFL	Olive-sided Flycatcher	1	
Spring	31-May-24	AM09/ARU1	20240531_073000	7:30:00	7:40	COYE	Common Yellowthroat	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	WIWR	Winter Wren	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	OSFL	Olive-sided Flycatcher	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	COYE	Common Yellowthroat	2	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	SOSP	Song Sparrow	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	YRWA	Yellow-rumped Warbler	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	BHVI	Blue-headed Vireo	1	
Spring	1-Jun-24	AM01	20240601_073000	7:30:00	7:40	YBFL	Yellow-bellied Flycatcher	1	
Spring	1-Jun-24	AM01	20240601_210100	21:01:00	21:11	COYE	Common Yellowthroat	1	
Spring	1-Jun-24	AM01	20240601_210100	21:01:00	21:11	WIWR	Winter Wren	1	
Spring	1-Jun-24	AM01	20240601_210100	21:01:00	21:11	BTNW	Black-throated Green Warbler	1	



Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	OSFL	Olive-sided Flycatcher	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	HETH	Hermit Thrush	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	NOFL	Northern Flicker	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	BHVI	Blue-headed Vireo	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	WTSP	White-throated Sparrow	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	OSPR	Osprey	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	RWBL	Red-winged Blackbird	1	Could be flyover
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	REVI	Red-eyed Vireo	1	
Summer	3-Jun-24	AM01	20240603_073000	7:30	7:40	BBWA	Bay-breasted Warbler	1	
Summer	3-Jun-24	AM01	20240603_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	
Summer	3-Jun-24	AM01	20240603_210100	21:01	21:11	COYE	Common Yellowthroat	1	
Summer	3-Jun-24	AM01	20240603_210100	21:01	21:11	WIWR	Winter Wren	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	LEFL	Least Flycatcher	2	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	2	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	BTNW	Black-throated Green Warbler	3	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	BTBW	Black-throated Blue Warbler	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	CEDW	Cedar Waxwing	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	AMRE	American Redstart	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	DEJU	Dark-eyed Junco	1	
Summer	3-Jun-24	AM08	20240603_073000	7:30	7:40	WTSP	White-throated Sparrow	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	HETH	Hermit Thrush	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	COYE	Common Yellowthroat	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	LEFL	Least Flycatcher	2	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	SWTH	Swainson's Thrush	3	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	DEJU	Dark-eyed Junco	2	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	BTNW	Black-throated Green Warbler	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	MAWA	Magnolia Warbler	1	
Summer	3-Jun-24	AM08	20240603_210100	21:01	21:11	CEDW	Cedar Waxwing	2	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	BLJA	Blue Jay	6	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	DEJU	Dark-eyed Junco	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	AMRE	American Redstart	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	BTNW	Black-throated Green Warbler	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	WTSP	White-throated Sparrow	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	LEFL	Least Flycatcher	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	3-Jun-24	AM10	20240603_073000	7:30	7:40	NOFL	Northern Flicker	1	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	BTNW	Black-throated Green Warbler	2	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	WIWR	Winter Wren	1	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	SWTH	Swainson's Thrush	2	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	BLBW	Blackburnian Warbler	1	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	OVEN	Ovenbird	1	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	BAWW	Black-and-white Warbler	1	
Summer	3-Jun-24	AM10	20240603_210100	21:01	21:11	EAWP	Eastern Wood-Pewee	1	
Summer	3-Jun-24	AM14	20240603_210000T	21:01	21:11	AMRO	American Robin	1	
Summer	3-Jun-24	AM15	20240603_210000T	21:01	21:11		no birds		no birds
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	BTNW	Black-throated Green Warbler	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	HETH	Hermit Thrush	1	

Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	COLO	Common Loon	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	REVI	Red-eyed Vireo	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	BHVI	Blue-headed Vireo	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	RCKI	Ruby-crowned Kinglet	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	13-Jun-24	AM10	20240613_073000	7:30	7:40	PAWA	Palm Warbler	1	
Summer	13-Jun-24	AM10	20240613_210100	21:01	21:11	OVEN	Ovenbird	1	
Summer	13-Jun-24	AM10	20240613_210100	21:01	21:11	BTNW	Black-throated Green Warbler	1	
Summer	13-Jun-24	AM10	20240613_210100	21:01	21:11	COLO	Common Loon	1	Pair likely breeding on lake, heard during morning and evening listening period
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	BAWW	Black-and-white Warbler	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	OSFL	Olive-sided Flycatcher	1	singing
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	CONI	Common Nighthawk	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	BHVI	Blue-headed Vireo	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	WIWR	Winter Wren	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	SWSP	Swamp Sparrow	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	WTSP	White-throated Sparrow	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	YRWA	Yellow-rumped Warbler	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	HETH	Hermit Thrush	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	SWTH	Swainson's Thrush	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	COYE	Common Yellowthroat	1	
Summer	18-Jun-24	ARU21	20240618_204000	20:40	20:50	BTNW	Black-throated Green Warbler	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	YRWA	Yellow-rumped Warbler	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	CAJA	Canada Jay	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	BAWW	Black-and-white Warbler	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	BTNW	Black-throated Green Warbler	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	DOWO	Downy Woodpecker	1	
Summer	18-Jun-24	ARU22	20240618_204000	20:40	20:50	BBWO	Black-backed Woodpecker	1	
Summer	19-Jun-24	ARU21	20240619_070000	7:00	7:10	SWSP	Swamp Sparrow	1	
Summer	19-Jun-24	ARU22	20240619_070000	7:00	7:10	CONI	Common Nighthawk	1	
Summer	26-Jun-24	AM10	20240626_210100	21:01	21:11	HETH	Hermit Thrush	2	
Summer	26-Jun-24	AM10	20240626_210100	21:01	21:11	WIWR	Winter Wren	1	
Summer	26-Jun-24	AM10	20240626_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	
Summer	26-Jun-24	AM10	20240626_210100	21:01	21:11	BTNW	Black-throated Green Warbler	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	HETH	Hermit Thrush	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	BTNW	Black-throated Green Warbler	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	WTSP	White-throated Sparrow	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	OVEN	Ovenbird	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	27-Jun-24	AM10	20240627_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	28-Jun-24	AM01	20240628_210100	21:01	21:11	CONI	Common Nighthawk	3	
Summer	28-Jun-24	AM01	20240628_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM01	20240628_210100	21:01	21:11	HETH	Hermit Thrush	1	
Summer	28-Jun-24	AM01	20240628_210100	21:01	21:11	SWTH	Swainson's Thrush	1	
Summer	28-Jun-24	AM01	20240628_073000	7:30	7:40	NAWA	Nashville Warbler	1	
Summer	28-Jun-24	AM01	20240628_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	COYE	Common Yellowthroat	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	MAWA	Magnolia Warbler	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	CONI	Common Nighthawk	3	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	HETH	Hermit Thrush	2	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	AMRO	American Robin	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	SWTH	Swainson's Thrush	2	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	WTSP	White-throated Sparrow	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	BCCH	Black-capped Chickadee	2	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	AMRE	American Redstart	1	
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	

Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	28-Jun-24	AM03	20240628_210100	21:01	21:11	DEJU	Dark-eyed Junco	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	SWTH	Swainson's Thrush	3	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	NOPA	Black-throated Green Warbler	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	LEFL	Least Flycatcher	2	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	PAWA	Palm Warbler	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	DEJU	Dark-eyed Junco	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	NAWA	Nashville Warbler	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	CAJA	Canada Jay	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	28-Jun-24	AM08	20240628_073000	7:30	7:40	BCCH	Black-capped Chickadee	1	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	DEJU	Dark-eyed Junco	1	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	SWTH	Swainson's Thrush	2	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	HETH	Hermit Thrush	3	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	CONI	Common Nighthawk	2	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	COYE	Common Yellowthroat	2	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	GCKI	Golden-crowned Kinglet	2	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	BAWW	Black-and-white Warbler	1	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	MAWA	Magnolia Warbler	1	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	PAWA	Palm Warbler	2	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	BTNW	Black-throated Green Warbler	1	
Summer	28-Jun-24	AM08	20240628_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM14	20240628_210000T	21:01	21:11	HETH	Hermit Thrush	4	
Summer	28-Jun-24	AM14	20240628_210000T	21:01	21:11	SWSP	Swamp Sparrow	2	
Summer	28-Jun-24	AM14	20240628_210000T	21:01	21:11	COYE	Common Yellowthroat	1	
Summer	28-Jun-24	AM14	20240628_213000T	21:30	21:40	HETH	Hermit Thrush	3	
Summer	28-Jun-24	AM14	20240628_203000T	20:30	20:40	HETH	Hermit Thrush	2	
Summer	28-Jun-24	AM14	20240628_203000T	20:30	20:40	COYE	Common Yellowthroat	2	
Summer	28-Jun-24	AM14	20240628_203000T	20:30	20:40	SWSP	Swamp Sparrow	2	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	YRWA	Yellow-rumped Warbler	2	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	BTNW	Black-throated Green Warbler	1	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	HETH	Hermit Thrush	2	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	COYE	Common Yellowthroat	2	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	SWSP	Swamp Sparrow	2	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	LEFL	Least Flycatcher	1	
Summer	28-Jun-24	AM14	20240628_201500T	20:15	20:25	WTSP	White-throated Sparrow	1	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	WIWR	Winter Wren	2	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	COYE	Common Yellowthroat	2	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	WTSP	White-throated Sparrow	3	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	HETH	Hermit Thrush	1	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	BLBW	Blackburnian Warbler	1	
Summer	28-Jun-24	AM15	20240628_070000	7:00	7:10	DEJU	Dark-eyed Junco	1	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	DEJU	Dark-eyed Junco	3	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	BLBW	Blackburnian Warbler	1	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	WTSP	White-throated Sparrow	1	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	HETH	Hermit Thrush	2	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	AMRO	American Robin	1	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM15	20240628_201500	20:15	20:25	SWTH	Swainson's Thrush	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	AMRO	American Robin	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	COYE	Common Yellowthroat	3	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	GCKI	Golden-crowned Kinglet	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	BAWW	Black-and-white Warbler	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	LEFL	Least Flycatcher	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	OSFL	Olive-sided Flycatcher	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	WIWR	Winter Wren	1	

Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	DEJU	Dark-eyed Junco	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	REVI	Red-eyed Vireo	1	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	SOSP	Song Sparrow	2	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	SWSP	Swamp Sparrow	2	
Summer	28-Jun-24	AM20	20240628_070000	7:00	7:10	WTSP	White-throated Sparrow	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	COYE	Common Yellowthroat	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	WTSP	White-throated Sparrow	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	LEFL	Least Flycatcher	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	SWTH	Swainson's Thrush	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	HETH	Hermit Thrush	2	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	BHVI	Blue-headed Vireo	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	GCKI	Golden-crowned Kinglet	2	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	YRWA	Yellow-rumped Warbler	1	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	DEJU	Dark-eyed Junco	3	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	SWSP	Swamp Sparrow	2	
Summer	28-Jun-24	AM20	20240628_201500	20:15	20:25	BLBW	Blackburnian Warbler	1	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	HETH	Hermit Thrush	2	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	COYE	Common Yellowthroat	2	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	WTSP	White-throated Sparrow	2	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	BHVI	Blue-headed Vireo	2	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	AMRO	American Robin	1	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	OVEN	Ovenbird	1	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	WIWR	Winter Wren	1	
Summer	28-Jun-24	ARU21	20240628_204000	20:40	20:50	NAWA	Nashville Warbler	1	
Summer	28-Jun-24	ARU21	20240628_070000	7:00	7:10	AMCR	American Crow	1	
Summer	28-Jun-24	ARU22	20240628_070000	7:00	7:10	COLO	Common Loon	1	
Summer	28-Jun-24	ARU22	20240628_204000	20:40	20:50	DEJU	Dark-eyed Junco	3	
Summer	28-Jun-24	ARU22	20240628_204000	20:40	20:50	HETH	Hermit Thrush	1	
Summer	28-Jun-24	ARU22	20240628_204000	20:40	20:50	AMRE	American Redstart	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	HETH	Hermit Thrush	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	NOFL	Northern Flicker	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	DEJU	Dark-eyed Junco	1	
Summer	29-Jun-24	AM03	20240629_073000	7:30	7:40	SOSP	Song Sparrow	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	SWSP	Swamp Sparrow	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	BHVI	Blue-headed Vireo	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	COYE	Common Yellowthroat	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	SOSP	Song Sparrow	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	SWTH	Swainson's Thrush	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	MAWA	Magnolia Warbler	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	BLBW	Blackburnian Warbler	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	WIWR	Winter Wren	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	HETH	Hermit Thrush	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	DEJU	Dark-eyed Junco	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	BCCH	Black-capped Chickadee	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	LEFL	Least Flycatcher	1	
Summer	4-Jul-24	AM20	20240704_070000	7:00	7:10	BBWA	Bay-breasted Warbler	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	MAWA	Magnolia Warbler	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	WTSP	White-throated Sparrow	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	HETH	Hermit Thrush	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	BTNW	Black-throated Green Warbler	1	
Summer	8-Jul-24	AM03	20240708_073000	7:30	7:40	BRCR	Brown Creeper	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	SWTH	Swainson's Thrush	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	COYE	Common Yellowthroat	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	MAWA	Magnolia Warbler	1	



Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	HETH	Hermit Thrush	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	CONI	Common Nighthawk	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	WTSP	White-throated Sparrow	1	
Summer	8-Jul-24	AM03	20240708_210100	21:01	21:11	BAWW	Black-and-white Warbler	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	AMGO	American Goldfinch	2	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	MAWA	Magnolia Warbler	3	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	WTSP	White-throated Sparrow	3	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	SWTH	Swainson's Thrush	2	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	WIWR	Winter Wren	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	2	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	CEDW	Cedar Waxwing	2	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	PAWA	Palm Warbler	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	NOFL	Northern Flicker	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	COYE	Common Yellowthroat	2	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	BHVI	Blue-headed Vireo	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	OSFL	Olive-sided Flycatcher	1	
Summer	18-Jul-24	AM01	20240718_073000	7:30	7:40	AMRO	American Robin	1	
Summer	18-Jul-24	AM01	20240718_210100	21:10	21:20	WTSP	White-throated Sparrow	3	
Summer	18-Jul-24	AM01	20240718_210100	21:10	21:20	SWTH	Swainson's Thrush	3	
Summer	18-Jul-24	AM01	20240718_210100	21:10	21:20	MAWA	Magnolia Warbler	2	
Summer	18-Jul-24	AM01	20240718_210100	21:10	21:20	COYE	Common Yellowthroat	2	
Summer	18-Jul-24	AM01	20240718_210100	21:10	21:20	AMRO	American Robin	1	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	PAWA	Palm Warbler	2	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	SWTH	Swainson's Thrush	1	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	18-Jul-24	AM03	20240718_073000	7:30	7:40	SWTH	Swainson's Thrush	1	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	SWTH	Swainson's Thrush	3	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	COYE	Common Yellowthroat	1	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	WTSP	White-throated Sparrow	2	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	MAWA	Magnolia Warbler	1	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM03	20240718_210100	21:10	21:20	HETH	Hermit Thrush	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	SWTH	Swainson's Thrush	4	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	BAWW	Black-and-white Warbler	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	MAWA	Magnolia Warbler	2	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	WIWR	Winter Wren	2	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	WTSP	White-throated Sparrow	2	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	SOSP	Song Sparrow	2	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	COYE	Common Yellowthroat	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	OVEN	Ovenbird	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	BHVI	Blue-headed Vireo	1	
Summer	18-Jul-24	AM08	20240718_073000	7:30	7:40	BCCH	Black-capped Chickadee	1	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	COYE	Common Yellowthroat	2	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	SWTH	Swainson's Thrush	3	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	WTSP	White-throated Sparrow	2	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	CONI	Common Nighthawk	1	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	MAWA	Magnolia Warbler	1	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	HETH	Hermit Thrush	2	
Summer	18-Jul-24	AM08	20240718_210100	21:01	21:11	BAWW	Black-and-white Warbler	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	HETH	Hermit Thrush	3	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	SWTH	Swainson's Thrush	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	BLBW	Blackburnian Warbler	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	COYE	Common Yellowthroat	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	CEDW	Cedar Waxwing	1	

Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	MODO	Mourning Dove	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	WIWR	Winter Wren	2	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	BRCR	Brown Creeper	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	WTSP	White-throated Sparrow	2	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	HAWO	Hairy Woodpecker	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM15	20240718_070000	7:00	7:10	PAWA	Palm Warbler	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	HETH	Hermit Thrush	3	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	DEJU	Dark-eyed Junco	2	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	CONI	Common Nighthawk	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	BARS	Barn Swallow	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	BLBW	Blackburnian Warbler	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	NOFL	Northern Flicker	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	WIWR	Winter Wren	1	
Summer	18-Jul-24	AM15	20240718_201500	20:15	20:25	CEDW	Cedar Waxwing	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	SWSP	Swamp Sparrow	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	WIWR	Winter Wren	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	COYE	Common Yellowthroat	2	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	NAWA	Nashville Warbler	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	REVI	Red-eyed Vireo	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	HETH	Hermit Thrush	2	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	2	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	BTNW	Black-throated Green Warbler	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM20	20240718_070000	7:00	7:10	SOSP	Song Sparrow	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	AMRO	American Robin	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	MAWA	Magnolia Warbler	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	BTNW	Black-throated Green Warbler	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	REVI	Red-eyed Vireo	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	SWTH	Swainson's Thrush	3	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	YRWA	Yellow-rumped Warbler	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	CEDW	Cedar Waxwing	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	HETH	Hermit Thrush	3	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	CAJA	Canada Jay	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	SWSP	Swamp Sparrow	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	DEJU	Dark-eyed Junco	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	WTSP	White-throated Sparrow	1	
Summer	18-Jul-24	AM20	20240718_201500	20:15	20:25	COYE	Common Yellowthroat	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	COYE	Common Yellowthroat	2	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	CEDW	Cedar Waxwing	2	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	AMRO	American Robin	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	WIWR	Winter Wren	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	SWTH	Swainson's Thrush	2	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	REVI	Red-eyed Vireo	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	YRWA	Yellow-rumped Warbler	2	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	BCCH	Black-capped Chickadee	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	BAWW	Black-and-white Warbler	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	NOFL	Northern Flicker	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	BHVI	Blue-headed Vireo	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	WTSP	White-throated Sparrow	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	PAWA	Palm Warbler	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	SWSP	Swamp Sparrow	1	
Summer	18-Jul-24	ARU21	20240718_204000	20:40	20:50	MAWA	Magnolia Warbler	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	SWTH	Swainson's Thrush	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	NOFL	Northern Flicker	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	DEJU	Dark-eyed Junco	2	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	AMRO	American Robin	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	CONI	Common Nighthawk	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	WTSP	White-throated Sparrow	1	



Table 51: 2024 Summer AudioMoth Data Results - Melvin Lake Wind Project

Project # 24-9856

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Number of Individuals	Notes
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	HAWO	Hairy Woodpecker	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	CEDW	Cedar Waxwing	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	BCCH	Black-capped Chickadee	1	
Summer	18-Jul-24	ARU22	20240718_204000	20:40	20:50	PAWA	Palm Warbler	1	

Table 52: 2024 Fall AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Latin Name	Number of Individuals	Notes
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	3	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	AMGO	American Goldfinch	<i>Spinus tristis</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	CEDW	Cedar Waxwing	<i>Bombycilla cedrorum</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	SOSP	Song Sparrow	<i>Melospiza melodia</i>	3	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	BHVI	Blue-headed Vireo	<i>Vireo solitarius</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	AMRO	American Robin	<i>Turdus migratorius</i>	1	
Fall	16-Aug-24	ARU21	20240816_070000	7:00	7:10	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	
Fall	16-Aug-24	ARU22	20240816_070000	7:00	7:10	AMRE	American Redstart	<i>Setophaga ruticilla</i>	1	Night flight call
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	OVEN	Ovenbird	<i>Seiurus aurocapilla</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	BLJA	Blue Jay	<i>Cyanocitta cristata</i>	3	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	HETH	Hermit Thrush	<i>Catharus guttatus</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	PISI	Pine Siskin	<i>Spinus pinus</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	AMRO	American Robin	<i>Turdus migratorius</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	2	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	CEDW	Cedar Waxwing	<i>Bombycilla cedrorum</i>	2	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	AMGO	American Goldfinch	<i>Spinus tristis</i>	2	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	1	
Fall	16-Aug-24	AM01	20240816_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	2	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	CEDW	Cedar Waxwing	<i>Bombycilla cedrorum</i>	2	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	AMRE	American Redstart	<i>Setophaga ruticilla</i>	1	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	2	
Fall	16-Aug-24	AM03	20240816_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	CAJA	Canada Jay	<i>Perisoreus canadensis</i>	1	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	HETH	Hermit Thrush	<i>Catharus guttatus</i>	2	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	DEJU	Dark-eyed Junco	<i>Junco hyemalis</i>	1	
Fall	16-Aug-24	AM08	20240816_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	2	
Fall	16-Aug-24	ARU21	20240816_204000	20:40	20:50		no birds			
Fall	16-Aug-24	ARU22	20240816_204000	20:40	20:50	HAWO	Hairy Woodpecker	<i>Leuconotopicus villosus</i>	1	
Fall	16-Aug-24	ARU22	20240816_204000	20:40	20:50	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	
Fall	16-Aug-24	AM01	20240816_210100	21:01	21:11	CONI	Common Nighthawk	<i>Chordeiles minor</i>	1	
Fall	16-Aug-24	AM03	20240816_210100	21:01	21:11	CONI	Common Nighthawk	<i>Chordeiles minor</i>	1	
Fall	16-Aug-24	AM08	20240816_210100	21:01	21:11	DEJU	Dark-eyed Junco	<i>Junco hyemalis</i>	2	
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	5	Night flight call
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	AMCR	American Crow	<i>Corvus brachyrhynchos</i>	1	
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	Night flight call
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	NOFA	Northern Parula	<i>Setophaga americana</i>	1	Night flight call
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	1-Sep-24	ARU15	20240901_070000	7:00	7:10	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	Night flight call
Fall	1-Sep-24	ARU21	20240901_070000	7:00	7:10	COYE	Common Yellowthroat	<i>Geothlypis trichas</i>	1	Night flight call
Fall	1-Sep-24	ARU21	20240901_070000	7:00	7:10	SAVS	Savannah Sparrow	<i>Passerculus sandwichensis</i>	1	Night flight call
Fall	1-Sep-24	ARU21	20240901_070000	7:00	7:10	NOFA	Northern Parula	<i>Setophaga americana</i>	1	
Fall	1-Sep-24	ARU21	20240901_070000	7:00	7:10	BTBW	Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	2	
Fall	1-Sep-24	ARU22	20240901_070000	7:00	7:10	OVEN	Ovenbird	<i>Seiurus aurocapilla</i>	1	
Fall	1-Sep-24	ARU22	20240901_070000	7:00	7:10	NOFA	Northern Parula	<i>Setophaga americana</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	

Table 52: 2024 Fall AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Latin Name	Number of Individuals	Notes
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	2	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	3	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	BTNW	Black-throated Green Warbler	<i>Setophaga virens</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	2	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	RBNU	Red-breasted Nuthatch	<i>Sitta canadensis</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	AMGO	American Goldfinch	<i>Spinus tristis</i>	1	
Fall	1-Sep-24	AM01	20240901_073000	7:30	7:40	HAWO	Hairy Woodpecker	<i>Leuconotopicus villosus</i>	1	
Fall	1-Sep-24	AM03	20240901_073000	7:30	7:40	OVEN	Ovenbird	<i>Seiurus aurocapilla</i>	1	
Fall	1-Sep-24	AM03	20240901_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	1-Sep-24	AM03	20240901_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	
Fall	1-Sep-24	AM03	20240901_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	
Fall	1-Sep-24	AM03	20240901_073000	7:30	7:40	NOPA	Northern Parula	<i>Setophaga americana</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	CANG	Canada Goose	<i>Branta canadensis</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	COYE	Common Yellowthroat	<i>Geothlypis trichas</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	4	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	BLJA	Blue Jay	<i>Cyanocitta cristata</i>	2	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	
Fall	1-Sep-24	AM08	20240901_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	1-Sep-24	ARU15	20240901_201500	20:15	20:25		no birds			
Fall	1-Sep-24	ARU21	20240901_204000	20:40	20:50		no birds			
Fall	1-Sep-24	ARU22	20240901_204000	20:40	20:50	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	
Fall	1-Sep-24	ARU22	20240901_204000	20:40	20:50	NOPA	Northern Parula	<i>Setophaga americana</i>	1	
Fall	1-Sep-24	ARU22	20240901_204000	20:40	20:50	COLO	Common Loon	<i>Gavia immer</i>	2	
Fall	1-Sep-24	ARU22	20240901_204000	20:40	20:50	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	1-Sep-24	AM01	20240901_210100	21:01	21:11	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	1	
Fall	1-Sep-24	AM01	20240901_210100	21:01	21:11	SWTH	Swainson's Thrush	<i>Turdus ustulatus</i>	1	Night flight call
Fall	1-Sep-24	AM03	20240901_210100	21:01	21:11		no birds			
Fall	1-Sep-24	AM08	20240901_210100	21:01	21:11	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	Night flight call
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	BLPW	Blackpoll Warbler	<i>Setophaga striata</i>	3	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	6	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	BTBW	Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	1	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	BRCR	Brown Creeper	<i>Certhia americana</i>	1	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	3	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	BTNW	Black-throated Green Warbler	<i>Setophaga virens</i>	1	
Fall	12-Sep-24	ARU15	20240912_070000	7:00	7:10	DEJU	Dark-eyed Junco	<i>Junco hyemalis</i>	1	
Fall	12-Sep-24	ARU21	20240912_070000	7:00	7:10	CSWA	Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	1	Night flight call
Fall	12-Sep-24	ARU21	20240912_070000	7:00	7:10	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	Night flight call
Fall	12-Sep-24	ARU21	20240912_070000	7:00	7:10	OVEN	Ovenbird	<i>Seiurus aurocapilla</i>	1	Night flight call
Fall	12-Sep-24	ARU22	20240912_070000	7:00	7:10	AMRE	American Redstart	<i>Setophaga ruticilla</i>	1	Night flight call
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	AMRO	American Robin	<i>Turdus migratorius</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	HETH	Hermit Thrush	<i>Catharus guttatus</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	COYE	Common Yellowthroat	<i>Geothlypis trichas</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	SWSP	Swamp Sparrow	<i>Melospiza georgiana</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	NOFL	Northern Flicker	<i>Colaptes auratus</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	NOWA	Northern Waterthrush	<i>Parkesia noveboracensis</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	6	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	BRCR	Brown Creeper	<i>Certhia americana</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	BLJA	Blue Jay	<i>Cyanocitta cristata</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	SWTH	Swainson's Thrush	<i>Catharus ustulatus</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	2	

Table 52: 2024 Fall AudioMoth Data Results - Melvin Lake Wind Project

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Latin Name	Number of Individuals	Notes
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	GRCA	Grey Catbird	<i>Dumetella carolinensis</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	3	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	CAJA	Canada Jay	<i>Perisoreus canadensis</i>	1	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	2	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	3	
Fall	12-Sep-24	AM01	20240912_073000	7:30	7:40	CEDW	Cedar Waxwing	<i>Bombycilla cedrorum</i>	2	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	BAWW	Black-and-white Warbler	<i>Mniotilta varia</i>	3	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	3	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	BLJA	Blue Jay	<i>Cyanocitta cristata</i>	2	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	3	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	3	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	DEJU	Dark-eyed Junco	<i>Junco hyemalis</i>	1	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	BLPW	Blackpoll Warbler	<i>Setophaga striata</i>	1	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	5	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	12-Sep-24	AM03	20240912_073000	7:30	7:40	AMGO	American Goldfinch	<i>Spinus tristis</i>	1	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	COLO	Common Loon	<i>Gavia immer</i>	2	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	3	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	CAJA	Canada Jay	<i>Perisoreus canadensis</i>	1	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	3	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	2	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	CMWA	Cape May Warbler	<i>Setophaga tigrina</i>	1	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	OVEN	Ovenbird	<i>Seiurus aurocapilla</i>	1	
Fall	12-Sep-24	AM08	20240912_073000	7:30	7:40	HETH	Hermit Thrush	<i>Catharus guttatus</i>	1	
Fall	12-Sep-24	ARU21	20240912_204000	20:40	20:50	NOPA	Northern Parula	<i>Setophaga americana</i>	1	Night flight call
Fall	12-Sep-24	ARU21	20240912_204000	20:40	20:50	BLJA	Blue Jay	<i>Cyanocitta cristata</i>	2	
Fall	12-Sep-24	ARU21	20240912_204000	20:40	20:50	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	12-Sep-24	ARU21	20240912_204000	20:40	20:50	SWTH	Swainson's Thrush	<i>Turdus ustulatus</i>	1	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	2	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	3	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	BTNW	Black-throated Green Warbler	<i>Setophaga virens</i>	1	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	CEDW	Cedar Waxwing	<i>Bombycilla cedrorum</i>	1	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	PUFI	Purple Finch	<i>Haemorhous purpureus</i>	1	
Fall	12-Sep-24	ARU22	20240912_204000	20:40	20:50	GCKI	Golden-crowned Kinglet	<i>Regulus satrapa</i>	1	
Fall	12-Sep-24	ARU15	20240912_215000	21:15	21:25	BLPW	Blackpoll Warbler	<i>Setophaga striata</i>	5	Night flight call
Fall	12-Sep-24	ARU15	20240912_215000	21:15	21:25	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	Night flight call
Fall	12-Sep-24	ARU15	20240912_215000	21:15	21:25	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	2	Night flight call
Fall	12-Sep-24	ARU15	20240912_215000	21:15	21:25	MAWA	Magnolia Warbler	<i>Setophaga magnolia</i>	1	Night flight call
Fall	12-Sep-24	ARU15	20240912_215000	21:15	21:25	COYE	Common Yellowthroat	<i>Geothlypis trichas</i>	2	Night flight call
Fall	25-Sep-24	AU90	20240925_071500	7:15	7:25		no birds			No birds
Fall	25-Sep-24	AU90	20240925_211000	21:10	21:20	HAWO	Hairy Woodpecker	<i>Dryobates villosus</i>	1	
Fall	2-Oct-24	AU90	20241002_070000	7:00	7:10		no birds			No birds
Fall	2-Oct-24	AU90	20241002_211500	21:15	21:25	OSPR	Osprey	<i>Pandion haliaetus</i>	1	
Fall	2-Oct-24	AU90	20241002_211500	21:15	21:25	AMRO	American Robin	<i>Turdus migratorius</i>	1	
Fall	17-Oct-24	AM21	20241017_070000	7:00	7:10	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	Night flight call
Fall	17-Oct-24	ARU15	20241017_070000	7:00	7:10	PAWA	Palm Warbler	<i>Setophaga palmarum</i>	1	Night flight call
Fall	17-Oct-24	ARU15	20241017_070000	7:00	7:10	AMGO	American Goldfinch	<i>Spinus tristis</i>	1	
Fall	17-Oct-24	ARU15	20241017_201500	20:15	20:25		no birds			
Fall	17-Oct-24	AM21	20241017_204000	20:40	20:50		no birds			
Fall	17-Oct-24	AU90	20241017_071000	7:10	7:20	WTSP	White-throated Sparrow	<i>Zonotrichia albicollis</i>	1	
Fall	22-Oct-24	AM21	20241022_070000	7:00	7:10	RECR	Red Crossbill	<i>Loxia curvirostra</i>	1	
Fall	22-Oct-24	AM21	20241022_070000	7:00	7:10	CAJA	Canada Jay	<i>Perisoreus canadensis</i>	1	
Fall	22-Oct-24	ARU15	20241022_070000	7:00	7:10	YRWA	Yellow-rumped Warbler	<i>Setophaga coronata</i>	1	Night flight call
Fall	22-Oct-24	ARU15	20241022_201500	20:15	20:25		no birds			
Fall	22-Oct-24	AM21	20241022_204000	20:40	20:50	DEJU	Dark-eyed Junco	<i>Junco hyemalis</i>	2	Night flight call
Fall	22-Oct-24	AM21	20241022_204000	20:40	20:50	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	Night flight call

Table 52: 2024 Fall AudioMoth Data Results - Melvin Lake Wind Project

Project # 24-9856

Season	Date	Monitor	File Name	Start Time	End Time	Bird Code	Common Name	Latin Name	Number of Individuals	Notes
Fall	22-Oct-24	AM21	20241022_204000	20:40	20:50	PISI	Pine Siskin	<i>Spinus pinus</i>	1	Night flight call
Fall	27-Oct-24	AM21	20241027_070000	7:00	7:10		no birds			
Fall	27-Oct-24	ARU15	20241027_070000	7:00	7:10		no birds			
Fall	27-Oct-24	ARU15	20241027_201500	20:15	20:25		no birds			
Fall	27-Oct-24	AM21	20241027_204000	20:40	20:50	SNBU	Snow Bunting	<i>Plectrophenax nivalis</i>	1	Night flight call
Fall	27-Oct-24	AM21	20241027_204000	20:40	20:50	BCCH	Black-capped Chickadee	<i>Poecile atricapillus</i>	2	Night flight call

# APPENDIX K

## ELECTROMAGNETIC INTERFERENCE

---



September 19, 2024

**Ms. Bethany DuChene**  
**Innovation, Science and Economic Development Canada**

Email: [ic.spectrumnsd-spectredne.ic@canada.ca](mailto:ic.spectrumnsd-spectredne.ic@canada.ca)

Dear Ms. DuChene,

**Re: Melvin Lake Wind Project**  
**Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

On behalf of our client, Strum is conducting an electromagnetic interference (EMI) study on the placement of 23 wind turbines located near the community of Pockwock, Nova Scotia. Strum is soliciting feedback, details, and specifications of existing operations from stakeholders to determine if there would be any potential interference with your existing operations as a result of the proposed wind turbine installations. The turbine specifications are as follows:

- Total of 23 turbines
- Tip height of each turbine is 206.5 m
- Hub height of each turbine is 125 m
- 3-blade rotor; turbine blade sweep diameter is 163 m (blade length is 81.5 m)

A map showing the proposed locations of the turbines is attached (Drawing 1); and a summary of the proposed turbine details, including coordinates and elevations, is provided in Table 1, below.

**Table 1: Proposed Turbine Locations & Specifications**

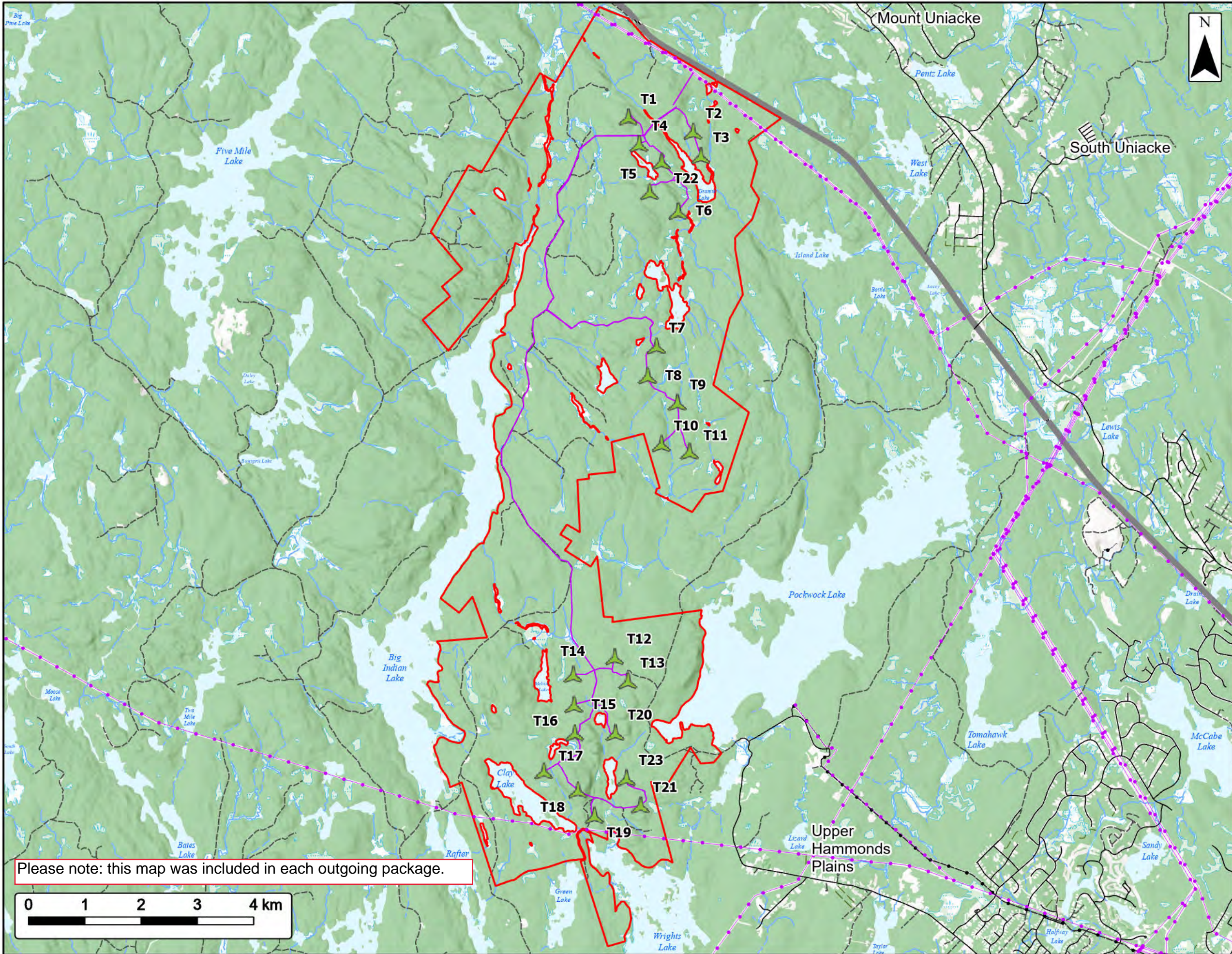
Turbine ID	Easting (UTM 20N)	Northing (UTM 20N)	Latitude	Longitude	Base of Turbine Elevation (m)	Turbine Hub Height (m)	Blade Length (m)	Total Elevation (m)
1	430207.92	4969534.99	44.8758	-63.8836	188.1	125	81.5	394.6
2	431356.25	4969280.19	44.8736	-63.8690	174.3	125	81.5	380.8
3	431494.44	4968850.89	44.8698	-63.8672	160.7	125	81.5	367.2
4	430396.88	4969060.05	44.8716	-63.8812	162.0	125	81.5	368.5
5	430587.83	4968207.17	44.8632	-63.8782	176.0	125	81.5	382.5
6	431091.00	4967863.00	44.8609	-63.8722	164.9	125	81.5	371.4
7	430708.29	4965469.78	44.8393	-63.8767	175.2	125	81.5	381.7
8	430550.52	4964937.63	44.8345	-63.8786	174.6	125	81.5	381.1
9	431078.45	4964464.15	44.8303	-63.8719	184.4	125	81.5	390.9
10	430794.89	4963731.94	44.8236	-63.8754	184.1	125	81.5	390.6
11	431294.92	4963594.76	44.8225	-63.8690	180.6	125	81.5	387.1
12	429963.74	4959945.15	44.7895	-63.8854	152.2	125	81.5	358.7
13	430199.36	4959521.52	44.7857	-63.8823	161.3	125	81.5	367.8
14	429226.80	4959633.51	44.7866	-63.8946	118.6	125	81.5	325.1
15	429240.68	4959093.24	44.7817	-63.8944	132.0	125	81.5	338.5
16	429255.39	4958594.57	44.7772	-63.8941	138.7	125	81.5	345.2
17	428705.37	4957916.92	44.7711	-63.9010	128.4	125	81.5	334.9
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19	429604.00	4957128.00	44.7641	-63.8895	94.0	125	81.5	300.5
20	429975.00	4958598.00	44.7773	-63.8850	117.3	125	81.5	323.8
21	430424.81	4957311.85	44.7658	-63.8792	120.7	125	81.5	327.2
22	430799.15	4968746.07	44.8688	-63.8760	167.0	125	81.5	373.5
23	430173.00	4957793.17	44.7701	-63.8824	119.2	125	81.5	325.7

Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,

Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com





**Melvin Lake Wind Project**  
Site Overview

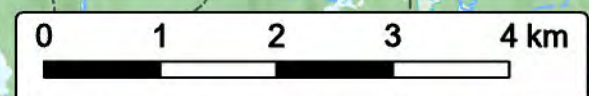


Study Area	
Proposed Turbine Location	
Proposed Connection	
<b>Utilities (line)</b>	
Existing Pipeline	
Existing Transmission Lines	
<b>Transportation</b>	
Highway	
Road	
Unpaved Road	
<b>Water Features</b>	
Mapped Stream	
Mapped Indefinite Stream	
Mapped Lakes and Rivers	
Mapped Wet Areas	



Date: Sept 2024		Project #: 24-9856	
Scale: 1:65,000		Drawing #: 1	
Drawn By: K. Wallace		<b>1</b>	
Checked By: H. Mosher			

Please note: this map was included in each outgoing package.



Coordinate System: NAD83 UTM Zone 20N Sources: ESRI Basemaps, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNVI, HERE, Garmin, USGS





Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

**Spectrum NSD / Spectre DNE (IC)** <spectrumnsd-spectredne@ised-isde.gc.ca>

To: Heather Mosher <hmosher@strum.com>, "ic.spectrumnsd-spectredne.ic@canada.ca" <ic.spectrumnsd-spectredne.ic@canada.ca> Tue, Sep 24, 2024 at 2:01 PM

Good afternoon Heather,

This is confirmation that the notification package for Melvin Lake has been received.

Thank you,

Sarah Ivany

Program Administrator, Spectrum Management Operations Branch  
Innovation, Science and Economic Development Canada / Government of Canada  
Sarah.Ivany@ised-isde.gc.ca / Tel: 782-640-2605 / TTY: 1-866-694-8389

Administrateur de programme, Direction générale des opérations de la gestion du spectre  
Innovation, Sciences et Développement économique Canada / Gouvernement du Canada  
Sarah.Ivany@ised-isde.gc.ca / Tél. : 782-640-2605 / ATS : 1-866-694-8389

[Quoted text hidden]

September 19, 2024

**Department of National Defence (DND)  
Military Air Defence and Air Traffic Control Radars**

Email: +WindTurbines@forces.gc.ca

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

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Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



September 19, 2024

**Department of National Defence (DND)  
Military Radiocommunication Users**

Email: +WindTurbines@forces.gc.ca

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

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Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com

September 19, 2024

**Mr. Phil Tanguay**  
**Royal Canadian Mounted Police (RCMP)**  
Email: Windfarm\_Coordinator@rcmp-grc.gc.ca

Dear Mr. Phil Tanguay,

**Re: Melvin Lake Wind Project**  
**Pockwock, Nova Scotia**

---

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Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



**Protected A**

Heather Mosher  
Strum

**GV 1620-7-3**

September 25, 2024

**SUBJECT: Melvin Lake Wind Project**

**Ref. # 2024-09-25\_0136**

Greetings,

Reference is made to your email request dated September 24, 2024, on your plans for the wind energy project called "Melvin Lake" in the province of Nova Scotia.

According to the Radio Advisory Board of Canada (RABC) and Canadian Wind Energy Association (CanWea), the radius of the consultation zone for fixed Land Mobile Radio (LMR) sites is 1 km. The RCMP currently have no "owned" radio towers or Point-To-Point (PTP) microwave links in this area.

However, the **surrounding area is receiving radio coverage from TMR2** operated as a leased system through Bell Canada. We do recommend that you request coordination with Bell who are acting on behalf of RCMP in the province of Nova Scotia with leased towers.

Should you require additional information, please direct any questions or concerns to the undersigned.

Sincerely,

***Phil Tanguay***

Wind Farm Coordinator, National Radio Services  
Royal Canadian Mounted Police (RCMP) / Government of Canada  
[windfarm\\_coordinator@rcmp-grc.gc.ca](mailto:windfarm_coordinator@rcmp-grc.gc.ca) / Tel: 343-552-1290

Coordonnateur parc éolien, Services de radio nationaux  
Gendarmerie royale du Canada (GRC) / Gouvernement du Canada  
[windfarm\\_coordinator@rcmp-grc.gc.ca](mailto:windfarm_coordinator@rcmp-grc.gc.ca) / Tél: 343-552-1290

September 19, 2024

**Martin Grégoire**

**Canadian Coast Guard- Vessel Traffic Systems Radars**

Email: windfarm.coordinator@dfo-mpo.gc.ca, Martin.Gregoire@dfo-mpo.gc.ca

Dear Martin Grégoire,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

On behalf of our client, Strum is conducting an electromagnetic interference (EMI) study on the placement of 23 wind turbines located near the community of Pockwock, Nova Scotia. Strum is soliciting feedback, details, and specifications of existing operations from stakeholders to determine if there would be any potential interference with your existing operations as a result of the proposed wind turbine installations. The turbine specifications are as follows:

- Total of 23 turbines
- Tip height of each turbine is 206.5 m
- Hub height of each turbine is 125 m
- 3-blade rotor; turbine blade sweep diameter is 163 m (blade length is 81.5 m)

A map showing the proposed locations of the turbines is attached (Drawing 1); and a summary of the proposed turbine details, including coordinates and elevations, is provided in Table 1, below.



Table 1: Proposed Turbine Locations & Specifications

Turbine ID	Easting (UTM 20N)	Northing (UTM 20N)	Latitude	Longitude	Base of Turbine Elevation (m)	Turbine Hub Height (m)	Blade Length (m)	Total Elevation (m)
1	430207.92	4969534.99	44.8758	-63.8836	188.1	125	81.5	394.6
2	431356.25	4969280.19	44.8736	-63.8690	174.3	125	81.5	380.8
3	431494.44	4968850.89	44.8698	-63.8672	160.7	125	81.5	367.2
4	430396.88	4969060.05	44.8716	-63.8812	162.0	125	81.5	368.5
5	430587.83	4968207.17	44.8632	-63.8782	176.0	125	81.5	382.5
6	431091.00	4967863.00	44.8609	-63.8722	164.9	125	81.5	371.4
7	430708.29	4965469.78	44.8393	-63.8767	175.2	125	81.5	381.7
8	430550.52	4964937.63	44.8345	-63.8786	174.6	125	81.5	381.1
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11	431294.92	4963594.76	44.8225	-63.8690	180.6	125	81.5	387.1
12	429963.74	4959945.15	44.7895	-63.8854	152.2	125	81.5	358.7
13	430199.36	4959521.52	44.7857	-63.8823	161.3	125	81.5	367.8
14	429226.80	4959633.51	44.7866	-63.8946	118.6	125	81.5	325.1
15	429240.68	4959093.24	44.7817	-63.8944	132.0	125	81.5	338.5
16	429255.39	4958594.57	44.7772	-63.8941	138.7	125	81.5	345.2
17	428705.37	4957916.92	44.7711	-63.9010	128.4	125	81.5	334.9
18	429310.93	4957578.98	44.7681	-63.8933	163.4	125	81.5	369.9
19	429604.00	4957128.00	44.7641	-63.8895	94.0	125	81.5	300.5
20	429975.00	4958598.00	44.7773	-63.8850	117.3	125	81.5	323.8
21	430424.81	4957311.85	44.7658	-63.8792	120.7	125	81.5	327.2
22	430799.15	4968746.07	44.8688	-63.8760	167.0	125	81.5	373.5
23	430173.00	4957793.17	44.7701	-63.8824	119.2	125	81.5	325.7

Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

**Grégoire, Martin (DFO/MPO)** <Martin.Gregoire@dfo-mpo.gc.ca>  
To: Heather Mosher <hmosher@strum.com>

Thu, Oct 3, 2024 at 12:09 PM

Hello,

The proposed wind farm (Melvin Lake) is located 22 km away from the Shannon Hill radar site and 28 km away from the Georges Island radar site. Even though it is located within the 60 km consultation zone, it is located beyond the areas covered by the radars. Therefore no interference issues are anticipated.

Regards / Salutations,

**Martin Grégoire**

Canadian Coast Guard

Garde côtière canadienne

---

**From:** Heather Mosher <hmosher@strum.com>

**Sent:** Tuesday, 24 September, 2024 12:21 PM

**To:** CCG Wind Farm Coordinator / Coordinateur Parc Éolien GCC (DFO/MPO) <DFO.CCGWindFarmCoordinator-CoordinateurParcEolienGCC.MPO@dfo-mpo.gc.ca>; Grégoire, Martin (DFO/MPO) <Martin.Gregoire@dfo-mpo.gc.ca>

**Subject:** EMI Notification - Melvin Lake Wind Project

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

11/14/24, 3:13 PM

Strum Consulting Mail - EMI Notification - Melvin Lake Wind Project

Thank you,

Heather Mosher

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*

[Redacted]

[Quoted text hidden]



NOVA SCOTIA

T: 902.835.5560 (24/7)

NEWFOUNDLAND  
& LABRADOR

T: 709.738.8478 (24/7)

NEW BRUNSWICK

T: 506.799.4300 (24/7)

September 19, 2024

**Alvin Au Duong**  
**Meteorological Service of Canada**  
**Environment and Climate Change Canada (ECCC)**  
Email: weatherradars@ec.gc.ca

Dear Alvin Au Duong,

**Re: Melvin Lake Wind Project**  
**Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

On behalf of our client, Strum is conducting an electromagnetic interference (EMI) study on the placement of 23 wind turbines located near the community of Pockwock, Nova Scotia. Strum is soliciting feedback, details, and specifications of existing operations from stakeholders to determine if there would be any potential interference with your existing operations as a result of the proposed wind turbine installations. The turbine specifications are as follows:

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- Hub height of each turbine is 125 m
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A map showing the proposed locations of the turbines is attached (Drawing 1); and a summary of the proposed turbine details, including coordinates and elevations, is provided in Table 1, below.



**Table 1: Proposed Turbine Locations & Specifications**

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3	431494.44	4968850.89	44.8698	-63.8672	160.7	125	81.5	367.2
4	430396.88	4969060.05	44.8716	-63.8812	162.0	125	81.5	368.5
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Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

---

**Radar (ECCC)** <radarsmeteo-weatherradars@ec.gc.ca>

To: Heather Mosher <hmosher@strum.com>, "Radar (ECCC)" <radarsmeteo-weatherradars@ec.gc.ca>

Wed, Oct 30, 2024 at 9:36 AM

Hi Heather,

We wanted to provide you with an update on your wind farm proposal. The proposed turbines would be approximately 28.1 – 39.9 km away from our Gore (NS) weather radar, and they are expected to be moderately visible within our radar's line-of-sight.

As a result, we are currently consulting internally with our radar science experts to assess the potential impact. We hope to get back to you with our radar impact results within the next few weeks.

Thank you for your patience. Please do not hesitate to reach out to us if you have any questions.

Kind regards,

Anika Chiang on behalf of

[radarsmeteo-weatherradars@ec.gc.ca](mailto:radarsmeteo-weatherradars@ec.gc.ca)

Meteorological Service of Canada

Environment and Climate Change Canada



Government  
of Canada

Canada



**From:** Heather Mosher <[hmosher@strum.com](mailto:hmosher@strum.com)>  
**Sent:** Tuesday, September 24, 2024 12:23 PM  
**To:** Radar (ECCC) <[radarsmeteo-weatheradars@ec.gc.ca](mailto:radarsmeteo-weatheradars@ec.gc.ca)>  
**Subject:** EMI Notification - Melvin Lake Wind Project

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

Thank you,

Heather Mosher

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*

[Quoted text hidden]

September 19, 2024

**NavCAN**

Email: [landuse@navcanada.ca](mailto:landuse@navcanada.ca)

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

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Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
Senior Environmental Scientist  
Environmental Assessment & Approval  
hmosher@strum.com

---

**Fwd: 24-3552 RE: EMI Notification - Melvin Lake Wind Project**

1 message

---

**Heather Mosher** <hmosher@strum.com>  
To: Sandra Mateos <smateos@strum.com>

Wed, Oct 2, 2024 at 12:06 PM

----- Forwarded message -----

From: **Land Use** <LandUse@navcanada.ca>  
Date: Tue, Sep 24, 2024 at 2:41 PM  
Subject: 24-3552 RE: EMI Notification - Melvin Lake Wind Project  
To: [hmosher@strum.com](mailto:hmosher@strum.com) <[hmosher@strum.com](mailto:hmosher@strum.com)>

Hi / Bonjour

*La version française figure ci-dessous / French Text Follows*

Thank you for your submission, your Land Use file number is 24-3552. Please reference this number for all transactions on this submission.

**Please complete and return the attached NAV CANADA Land Use Submission Form and excel multi-obstacle spreadsheet.**

At NAV CANADA, we are currently working on different ways to diminish our turnaround times. Please note that we currently have the following time frame published on our website:

*Processing times vary, but NAV CANADA attempts to respond within 8 to 12 weeks of receiving a complete proposal. The accuracy and completeness of the initial documentation and your cooperation and promptness in remedying deficiencies or inaccuracies will help to expedite the review process.*

If you have any questions or would like an update of your file, please do not hesitate to contact us.

Merci pour votre soumission. Votre numéro de dossier d'utilisation de terrain est YY-XXXX. Veuillez mentionner ce numéro pour toutes les transactions reliées sur cette soumission.

Chez NAV CANADA, nous travaillons actuellement sur différentes façons de réduire nos délais d'exécution. Veuillez noter que nous avons actuellement le délai suivant publié sur notre site Web:

*Les délais de traitement varient selon l'exhaustivité et l'exactitude des renseignements soumis et selon la complexité du projet. En général, NAV CANADA tente de répondre dans un délai de 8 à 12 semaines.*

N'hésitez pas à nous contacter si vous avez des questions ou souhaitez une mise à jour de votre dossier.

Regards / Merci,

**Mark Tarrant**

**Land Use**

**AERONAUTICAL INFORMATION MANAGEMENT (AIM) NAV CANADA**

[landuse@navcanada.ca](mailto:landuse@navcanada.ca)

1601 Tom Roberts Avenue Ottawa, ON K1V 1E5

F. 613-248-4094

[www.navcanada.ca](http://www.navcanada.ca)



---

**From:** Heather Mosher <[hmosher@strum.com](mailto:hmosher@strum.com)>  
**Sent:** Tuesday, September 24, 2024 12:25 PM  
**To:** Land Use <[LandUse@navcanada.ca](mailto:LandUse@navcanada.ca)>  
**Subject:** 24-3552 Notification

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

Thank you,

Heather Mosher

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*



T: 902.835.5560 (24/7)

C: 902.817.2730

F: 902.835.5574

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[www.strum.com](http://www.strum.com)

**Head Office:**

Suite 210 - 211 Horseshoe Lake Drive

Halifax, NS, B3S 1B4

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--

**Heather Mosher Msc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*



T: 902.835.5560 (24/7)  
C: 902.817.2730  
F: 902.835.5574

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[www.strum.com](http://www.strum.com)

Head Office:  
Suite 210 - 211 Horseshoe Lake Drive  
Halifax, NS, B3S 1B4

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---

**3 attachments**

**240919 EMI Notification - Melvin Lake Wind Project - NavCAN.pdf**  
1190K



**f-Idu-100-land-use-proposal-submission-form---general21december2021 (2).docx**  
158K



**z-Idu-100-multiple-obstacle-2024.xlsx**  
62K



September 19, 2024

**Mr. Sunny Saini**

**Bell Aliant**

Email: sunny.saini@bell.ca

Dear Mr. Sunny Saini,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the "Project") within Halifax and East Hants Counties, Nova Scotia.

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17	428705.37	4957916.92	44.7711	-63.9010	128.4	125	81.5	334.9
18	429310.93	4957578.98	44.7681	-63.8933	163.4	125	81.5	369.9
19	429604.00	4957128.00	44.7641	-63.8895	94.0	125	81.5	300.5
20	429975.00	4958598.00	44.7773	-63.8850	117.3	125	81.5	323.8
21	430424.81	4957311.85	44.7658	-63.8792	120.7	125	81.5	327.2
22	430799.15	4968746.07	44.8688	-63.8760	167.0	125	81.5	373.5
23	430173.00	4957793.17	44.7701	-63.8824	119.2	125	81.5	325.7

Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com

September 19, 2024

Andrew MacVicar

Eastlink

Email: CEO@corp.eastlink.ca, Andrew.MacVicar@corp.eastlink.ca

Dear Andrew MacVicar,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

On behalf of our client, Strum is conducting an electromagnetic interference (EMI) study on the placement of 23 wind turbines located near the community of Pockwock, Nova Scotia. Strum is soliciting feedback, details, and specifications of existing operations from stakeholders to determine if there would be any potential interference with your existing operations as a result of the proposed wind turbine installations. The turbine specifications are as follows:

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- Hub height of each turbine is 125 m
- 3-blade rotor; turbine blade sweep diameter is 163 m (blade length is 81.5 m)

A map showing the proposed locations of the turbines is attached (Drawing 1); and a summary of the proposed turbine details, including coordinates and elevations, is provided in Table 1, below.

**Table 1: Proposed Turbine Locations & Specifications**

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Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

**Andrew MacVicar** <Andrew.MacVicar@corp.eastlink.ca>  
To: Heather Mosher <hmosher@strum.com>

Tue, Sep 24, 2024 at 1:32 PM

Good afternoon Heather,

I've shared the latest project details with our Engineering group, who will be in touch if they have any questions at all.

Thank you,

Andrew

---

**From:** Heather Mosher <hmosher@strum.com>

**Sent:** Tuesday, September 24, 2024 1:27 PM

**To:** For the office of Jeff Gillham, Chief Executive Officer <CEO@corp.eastlink.ca>; Andrew MacVicar <Andrew.MacVicar@corp.eastlink.ca>

**Subject:** EMI Notification - Melvin Lake Wind Project

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

Thank you,

Heather Mosher

--

**Heather Mosher MSc.**

10/22/24, 4:28 PM

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*

Strum Consulting Mail - EMI Notification - Melvin Lake Wind Project

[Redacted]

[Quoted text hidden]





NOVA SCOTIA

T: 902.835.5560 (24/7)

NEWFOUNDLAND  
& LABRADOR

T: 709.738.8478 (24/7)

NEW BRUNSWICK

T: 506.799.4300 (24/7)

September 19, 2024

**Ms. Heather Allen-Johnson**  
**NCS Managed Services Inc.**  
Email: heather@ncsnetwork.net

Dear Ms. Heather Allen-Johnson,

**Re: Melvin Lake Wind Project**  
**Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the "Project") within Halifax and East Hants Counties, Nova Scotia.

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Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

**Heather - NCS Managed Services Inc** <heather@ncsnetwork.net>  
To: Heather Mosher <hmosher@strum.com>

Wed, Sep 25, 2024 at 9:15 AM

Received- thanks.

Heather Allen-Johnson  
NCS Managed Services Inc.  
[heather@ncsnetwork.net](mailto:heather@ncsnetwork.net)

Phone or Text 902-890-0669 Monday-Friday 9AM-5PM

**\*\*\*PLEASE NOTE IF YOU ARE EXPERIENCING ISSUES WITH YOUR INTERNET CONNECTION CALL 1-877-473-3660 OPTION 103\*\*\***

---

**From:** Heather Mosher <[hmosher@strum.com](mailto:hmosher@strum.com)>  
**Sent:** September 24, 2024 1:28 PM  
**To:** Heather - NCS Managed Services Inc <[heather@ncsnetwork.net](mailto:heather@ncsnetwork.net)>  
**Subject:** EMI Notification - Melvin Lake Wind Project

You don't often get email from [hmosher@strum.com](mailto:hmosher@strum.com). [Learn why this is important](#)

[Quoted text hidden]

September 19, 2024

**Rogers Communications Canada Inc**

33 Bloor Street East, 10th Floor

Toronto, ON M4W 1G9

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

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 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



NOVA SCOTIA

T: 902.835.5560 (24/7)

NEWFOUNDLAND  
& LABRADOR

T: 709.738.8478 (24/7)

NEW BRUNSWICK

T: 506.799.4300 (24/7)

September 19, 2024

**Seaside Communications**

Email: [support@seaside.ns.ca](mailto:support@seaside.ns.ca)

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

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Thank you,



Heather Mosher, MSc.  
Senior Environmental Scientist  
Environmental Assessment & Approval  
hmosher@strum.com

September 19, 2024

**Royal Canadian Mounted Police (RCMP) – Mount Uniacke**

555 Highway 1  
Mount Uniacke NS B0N 1Z0

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

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15	429240.68	4959093.24	44.7817	-63.8944	132.0	125	81.5	338.5
16	429255.39	4958594.57	44.7772	-63.8941	138.7	125	81.5	345.2
17	428705.37	4957916.92	44.7711	-63.9010	128.4	125	81.5	334.9
18	429310.93	4957578.98	44.7681	-63.8933	163.4	125	81.5	369.9
19	429604.00	4957128.00	44.7641	-63.8895	94.0	125	81.5	300.5
20	429975.00	4958598.00	44.7773	-63.8850	117.3	125	81.5	323.8
21	430424.81	4957311.85	44.7658	-63.8792	120.7	125	81.5	327.2
22	430799.15	4968746.07	44.8688	-63.8760	167.0	125	81.5	373.5
23	430173.00	4957793.17	44.7701	-63.8824	119.2	125	81.5	325.7

Thank you for your time and consideration of this Project. Upon review, should you have any questions, or concerns, or identify a need for additional information, please do not hesitate to contact a member of our team and we will follow up with you directly. Your feedback and support in this matter is most appreciated.

Thank you,



Heather Mosher, MSc.  
Senior Environmental Scientist  
Environmental Assessment & Approval  
hmosher@strum.com

September 19, 2024

**Royal Canadian Mounted Police (RCMP) – Tantallon**

1 Eleanor Ln  
Upper Tantallon, NS B3Z 1H3

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

Strum Consulting, a Nova Scotia-based environmental and engineering consulting firm, has been retained by ABO Energy (our client) to support the proposed Melvin Lake Wind Project (the “Project”) within Halifax and East Hants Counties, Nova Scotia.

On behalf of our client, Strum is conducting an electromagnetic interference (EMI) study on the placement of 23 wind turbines located near the community of Pockwock, Nova Scotia. Strum is soliciting feedback, details, and specifications of existing operations from stakeholders to determine if there would be any potential interference with your existing operations as a result of the proposed wind turbine installations. The turbine specifications are as follows:

- Total of 23 turbines
- Tip height of each turbine is 206.5 m
- Hub height of each turbine is 125 m
- 3-blade rotor; turbine blade sweep diameter is 163 m (blade length is 81.5 m)

A map showing the proposed locations of the turbines is attached (Drawing 1); and a summary of the proposed turbine details, including coordinates and elevations, is provided in Table 1, below.

Table 1: Proposed Turbine Locations & Specifications

Turbine ID	Easting (UTM 20N)	Northing (UTM 20N)	Latitude	Longitude	Base of Turbine Elevation (m)	Turbine Hub Height (m)	Blade Length (m)	Total Elevation (m)
1	430207.92	4969534.99	44.8758	-63.8836	188.1	125	81.5	394.6
2	431356.25	4969280.19	44.8736	-63.8690	174.3	125	81.5	380.8
3	431494.44	4968850.89	44.8698	-63.8672	160.7	125	81.5	367.2
4	430396.88	4969060.05	44.8716	-63.8812	162.0	125	81.5	368.5
5	430587.83	4968207.17	44.8632	-63.8782	176.0	125	81.5	382.5
6	431091.00	4967863.00	44.8609	-63.8722	164.9	125	81.5	371.4
7	430708.29	4965469.78	44.8393	-63.8767	175.2	125	81.5	381.7
8	430550.52	4964937.63	44.8345	-63.8786	174.6	125	81.5	381.1
9	431078.45	4964464.15	44.8303	-63.8719	184.4	125	81.5	390.9
10	430794.89	4963731.94	44.8236	-63.8754	184.1	125	81.5	390.6
11	431294.92	4963594.76	44.8225	-63.8690	180.6	125	81.5	387.1
12	429963.74	4959945.15	44.7895	-63.8854	152.2	125	81.5	358.7
13	430199.36	4959521.52	44.7857	-63.8823	161.3	125	81.5	367.8
14	429226.80	4959633.51	44.7866	-63.8946	118.6	125	81.5	325.1
15	429240.68	4959093.24	44.7817	-63.8944	132.0	125	81.5	338.5
16	429255.39	4958594.57	44.7772	-63.8941	138.7	125	81.5	345.2
17	428705.37	4957916.92	44.7711	-63.9010	128.4	125	81.5	334.9
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19	429604.00	4957128.00	44.7641	-63.8895	94.0	125	81.5	300.5
20	429975.00	4958598.00	44.7773	-63.8850	117.3	125	81.5	323.8
21	430424.81	4957311.85	44.7658	-63.8792	120.7	125	81.5	327.2
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Thank you,



Heather Mosher, MSc.  
 Senior Environmental Scientist  
 Environmental Assessment & Approval  
 hmosher@strum.com



NOVA SCOTIA

T: 902.835.5560 (24/7)

NEWFOUNDLAND  
& LABRADOR

T: 709.738.8478 (24/7)

NEW BRUNSWICK

T: 506.799.4300 (24/7)

September 19, 2024

**Halifax Regional Fire & Emergency**

Email: hrmfire@halifax.ca

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

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Table 1: Proposed Turbine Locations & Specifications

Turbine ID	Easting (UTM 20N)	Northing (UTM 20N)	Latitude	Longitude	Base of Turbine Elevation (m)	Turbine Hub Height (m)	Blade Length (m)	Total Elevation (m)
1	430207.92	4969534.99	44.8758	-63.8836	188.1	125	81.5	394.6
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3	431494.44	4968850.89	44.8698	-63.8672	160.7	125	81.5	367.2
4	430396.88	4969060.05	44.8716	-63.8812	162.0	125	81.5	368.5
5	430587.83	4968207.17	44.8632	-63.8782	176.0	125	81.5	382.5
6	431091.00	4967863.00	44.8609	-63.8722	164.9	125	81.5	371.4
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9	431078.45	4964464.15	44.8303	-63.8719	184.4	125	81.5	390.9
10	430794.89	4963731.94	44.8236	-63.8754	184.1	125	81.5	390.6
11	431294.92	4963594.76	44.8225	-63.8690	180.6	125	81.5	387.1
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Thank you,



Heather Mosher, MSc.  
Senior Environmental Scientist  
Environmental Assessment & Approval  
hmosher@strum.com



Heather Mosher <hmosher@strum.com>

---

## EMI Notification - Melvin Lake Wind Project

MacMillan, Craig <macmilcr@halifax.ca>

To: "hmosher@strum.com" <hmosher@strum.com>

Mon, Oct 7, 2024 at 2:07 PM

Hi Heather,

Halifax Fire has no comments in relation to the Melvin Lake Wind Project proposal.

**CRAIG MACMILLAN**

**PLANS EXAMINATION SPECIALIST | FIRE PREVENTION**

**HALIFAX REGIONAL FIRE AND EMERGENCY**



**T. 902-490-5338**

**C. 902-266-9723**

halifax.ca/fire

***We make a difference***

**From:** Heather Mosher <[hmosher@strum.com](mailto:hmosher@strum.com)>  
**Sent:** Tuesday, September 24, 2024 1:41 PM  
**To:** HRM Fire <[HRMFire@halifax.ca](mailto:HRMFire@halifax.ca)>  
**Subject:** [External Email] EMI Notification - Melvin Lake Wind Project

*[This email has been received from an external person or system]*

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

Thank you,

Heather Mosher

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate  
Environmental Assessments and Approvals*

[REDACTED]

[Quoted text hidden]



NOVA SCOTIA

T: 902.835.5560 (24/7)

NEWFOUNDLAND  
& LABRADOR

T: 709.738.8478 (24/7)

NEW BRUNSWICK

T: 506.799.4300 (24/7)

September 19, 2024

**Uniacke & District Volunteer Fire Department**

Email: [udvfd@uniackefire.ca](mailto:udvfd@uniackefire.ca)

To whom it may concern,

**Re: Melvin Lake Wind Project  
Pockwock, Nova Scotia**

---

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Thank you,



Heather Mosher, MSc.  
Senior Environmental Scientist  
Environmental Assessment & Approval  
hmosher@strum.com

---

**Fwd: FW: EMI Notification - Melvin Lake Wind Project**

1 message

---

**Heather Mosher** <hmosher@strum.com>  
To: Sandra Mateos <smateos@strum.com>

Wed, Oct 2, 2024 at 12:05 PM

----- Forwarded message -----

From: **Shawn Darby** <sdarby@uniackefire.ca>  
Date: Sat, Sep 28, 2024 at 2:45 PM  
Subject: Re: FW: EMI Notification - Melvin Lake Wind Project  
To: <hmosher@strum.com>  
Cc: Darby, Shawn <sdarby@uniackefire.ca>

Hi Heather,

We do not believe the wind turbines would interfere with any of our radio communications at this time. Several other fire departments have turbines within their vicinity and they have not reported any issues.

**Shawn Darby | Chief**  
Uniacke & District Volunteer Fire Department  
sdarby@uniackefire.ca  
(902) 456-4797

----- Original Message -----

From: [udvfd@uniackefire.ca](mailto:udvfd@uniackefire.ca)  
To: [sdarby@uniackefire.ca](mailto:sdarby@uniackefire.ca)  
Sent: Tuesday, September 24th 2024, 18:05  
Subject: FW: EMI Notification - Melvin Lake Wind Project

**From:** Heather Mosher <[hmosher@strum.com](mailto:hmosher@strum.com)>  
**Sent:** September 24, 2024 1:42 PM  
**To:** [udvfd@uniackefire.ca](mailto:udvfd@uniackefire.ca)  
**Subject:** EMI Notification - Melvin Lake Wind Project

Good Afternoon,

Please find attached a notification letter for the proposed Melvin Lake Wind Project location near the community of Pockwock within Halifax and East Hants Counties, Nova Scotia. A confirmation of receipt would be greatly appreciated. For questions or comments, kindly contact the undersigned.

Thank you,



Heather Mosher

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*



T: 902.835.5560 (24/7)

C: 902.817.2730

F: 902.835.5574

[LinkedIn](#) • [Twitter](#) • [Instagram](#)

[www.strum.com](http://www.strum.com)

Head Office:

Suite 210 - 211 Horseshoe Lake Drive

Halifax, NS, B3S 1B4

**CONFIDENTIALITY NOTICE**

This e-mail, and any files sent with it, is confidential and for the use of the intended recipient only. If you have received this e-mail in error, please telephone 902.835.5560 or e-mail the sender, and delete the original. Thank you.

--

**Heather Mosher MSc.**

*Senior Environmental Scientist, Associate*

*Environmental Assessments and Approvals*



T: 902.835.5560 (24/7)

C: 902.817.2730

F: 902.835.5574

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Head Office:

Suite 210 - 211 Horseshoe Lake Drive

Halifax, NS, B3S 1B4

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APPENDIX L  
SHADOW FLICKER

---

## SHADOW - Main Result

Calculation: 241118 - MVL - Worst Case Shadow Flicker - 5.9MW Nordex w/ Existing Pockwock Turbines

Assumptions for shadow calculations

Maximum distance for influence  
 Calculate only when more than 20 % of sun is covered by the blade  
 Please look in WTG table

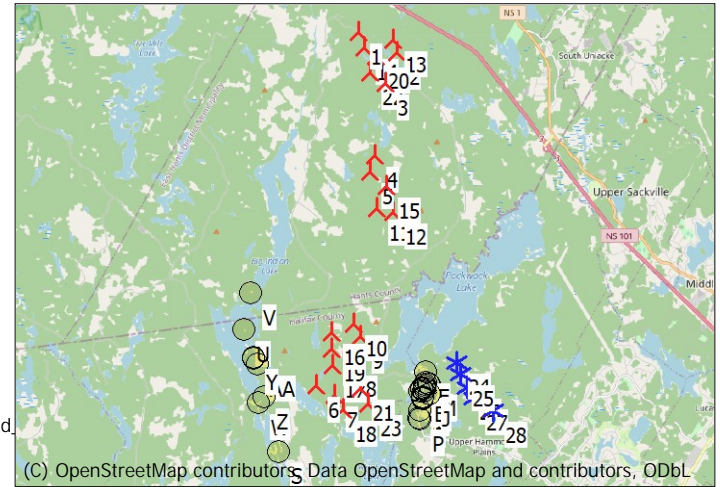
Minimum sun height over horizon for influence 3 °  
 Day step for calculation 1 days  
 Time step for calculation 1 minutes

The calculated times are "worst case" given by the following assumptions:  
 The sun is shining all the day, from sunrise to sunset  
 The rotor plane is always perpendicular to the line from the WTG to the sun  
 The WTG is always operating

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:

Height contours used: Elevation Grid Data Object: March 2024 - Melvin Lake\_EMDGrid  
 Receptor grid resolution: 1.0 m

All coordinates are in UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL  
 Scale 1:250,000  
 ▲ New WTG    \* Existing WTG    ● Shadow receptor

### WTGs

Row	Easting	Northing	Z	Row data/Description	WTG type			Shadow data				
					Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM
1	430,208.16	4,969,533.72	185.9	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
2	431,494.68	4,968,849.62	159.8	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
3	431,091.24	4,967,861.73	160.1	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
4	430,708.53	4,965,468.51	176.8	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
5	430,550.76	4,964,936.36	175.4	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
6	428,705.62	4,957,915.65	135.2	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
7	429,311.17	4,957,577.71	150.9	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
8	429,975.24	4,958,596.73	117.1	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
9	430,199.60	4,959,520.25	154.0	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
10	429,963.98	4,959,943.88	154.1	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
11	430,795.13	4,963,730.67	183.8	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
12	431,295.17	4,963,593.49	180.2	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
13	431,356.49	4,969,278.92	173.9	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
14	430,397.12	4,969,058.78	162.0	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
15	431,078.69	4,964,462.88	184.8	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
16	429,227.04	4,959,632.24	117.6	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
17	429,255.63	4,958,593.30	137.4	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
18	429,604.24	4,957,126.73	94.7	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
19	429,240.92	4,959,091.97	131.7	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
20	430,799.40	4,968,744.80	166.5	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
21	430,173.24	4,957,791.90	121.5	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
22	430,588.08	4,968,205.90	172.7	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
23	430,425.05	4,957,310.58	120.5	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0...Yes	Yes	NORDEX	N163/5.9-5.900	5,900	163.0	125.0	1,788	10.7
24	433,352.84	4,958,632.97	139.8	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 ... Yes	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	1,691	-
25	433,498.33	4,958,252.41	163.2	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 ... Yes	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	1,691	-
26	433,695.56	4,957,783.30	161.4	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 ... Yes	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	1,691	-
27	433,926.55	4,957,457.68	150.3	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 ... Yes	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	1,691	-
28	434,533.81	4,957,055.43	130.7	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 ... Yes	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	1,691	-

### Shadow receptor-Input

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
	[m]	[m]	[m]	[m]	[m]	[m]	[°]		[m]
A	432,097.60	4,956,785.20	141.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B	432,202.73	4,957,733.60	116.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C	432,288.94	4,957,758.46	125.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D	432,204.15	4,957,779.61	114.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

## SHADOW - Main Result

Calculation: 241118 - MVL - Worst Case Shadow Flicker - 5.9MW Nordex w/ Existing Pockwock Turbines

...continued from previous page

No.	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
			[m]	[m]	[m]	[m]	[°]		[m]
E	432,364.98	4,958,307.88	109.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F	432,138.43	4,957,696.97	111.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G	432,227.72	4,957,447.80	129.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H	432,227.85	4,957,469.26	129.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I	432,247.44	4,957,510.68	129.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J	432,468.64	4,957,570.64	148.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K	432,298.25	4,957,904.85	118.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L	432,291.29	4,957,847.56	121.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M	432,443.45	4,957,935.74	131.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N	432,462.46	4,957,898.33	135.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O	432,255.95	4,957,678.04	123.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P	432,117.90	4,956,775.33	142.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Q	432,335.23	4,957,974.68	112.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R	432,124.55	4,957,027.98	133.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S	427,423.90	4,955,748.40	69.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T	426,980.10	4,957,546.40	73.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U	426,348.72	4,959,779.74	72.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
V	426,573.10	4,960,993.18	72.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W	426,766.27	4,957,370.58	70.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X	426,635.77	4,958,844.53	80.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y	426,632.33	4,958,852.75	81.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z	426,998.11	4,957,548.72	74.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA	426,755.73	4,958,635.17	73.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0

## Calculation Results

Shadow receptor

Shadow, worst case

No.	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
A	5:53	30	0:17
B	13:29	61	0:18
C	15:55	68	0:19
D	12:23	57	0:18
E	25:30	95	0:24
F	18:38	86	0:20
G	4:47	24	0:16
H	4:43	23	0:16
I	7:43	47	0:16
J	9:22	47	0:19
K	12:47	54	0:20
L	13:29	57	0:19
M	20:00	81	0:22
N	21:44	88	0:23
O	21:00	89	0:19
P	5:31	30	0:17
Q	13:00	53	0:20
R	5:39	28	0:18
S	0:00	0	0:00
T	9:27	33	0:22
U	0:00	0	0:00
V	0:00	0	0:00
W	0:00	0	0:00
X	0:00	0	0:00
Y	0:00	0	0:00
Z	9:40	34	0:22
AA	0:00	0	0:00

## SHADOW - Main Result

Calculation: 241118 - MVL - Worst Case Shadow Flicker - 5.9MW Nordex w/ Existing Pockwock Turbines

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]
1	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (110)	0:00
2	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (111)	0:00
3	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (112)	0:00
4	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (113)	0:00
5	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (114)	0:00
6	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (115)	9:44
7	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (116)	0:00
8	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (117)	0:00
9	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (118)	0:00
10	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (119)	0:00
11	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (120)	0:00
12	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (121)	0:00
13	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (122)	0:00
14	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (123)	0:00
15	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (124)	0:00
16	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (125)	0:00
17	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (126)	0:00
18	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (127)	0:00
19	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (128)	0:00
20	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (129)	0:00
21	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (130)	0:00
22	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (131)	0:00
23	NORDEX N163/5.9 5900 163.0 !O! hub: 125.0 m (TOT: 206.5 m) (132)	17:42
24	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 m (TOT: 145.0 m) (1)	13:47
25	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 m (TOT: 145.0 m) (2)	53:34
26	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 m (TOT: 145.0 m) (3)	36:29
27	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 m (TOT: 145.0 m) (4)	9:38
28	VESTAS V100-2.0 2000 100.0 !O! hub: 95.0 m (TOT: 145.0 m) (5)	0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

## APPENDIX M

### SOUND

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## OVERVIEW OF INFRASOUND

Infrasound is an inaudible range of low frequency sound between one and 10 Hz generated as a result of large masses/objects in motion. Infrasound is emitted from both natural sources (e.g., wind, oceans) and artificial sources such as road traffic, ventilation systems, and aircrafts (Keith, 2018). Levels of infrasound emitted from large-scale wind turbines attenuate over space as a function of site-specific characteristics (i.e., topography, structures, etc.) and climatic conditions (Rod & Heiger-Bernays, 2012; Schmidt & Klokke, 2014). Generally, frequencies below 100 Hz are attenuated by three dBA over a doubling of distance when downwind of turbines (between distances of 0.3 to 20 km) and six dBA over a doubling of distance when upwind of turbines (between distances of 0.4 to 3 km) (Shepherd & Hubbard, 1991). Health Canada reported that infrasound generated by wind turbines can be measured up to 10 km away, however, in many cases was below background levels (Health Canada, 2014; Keith, 2018).

When evaluating potential effects of infrasound, it is important that these frequencies be discussed in the context of the sound pressure levels, or in other words, the loudness of the sound. Studies show that the lower the frequency of the sound, the louder the sound needs to be in order to be audible/perceived. For instance, very loud sounds at very low frequencies (i.e., 165 dB at 2 Hz, reducing to 145 dB at 20 Hz) may result in pain (Leventhall, 2006) and infrasound has been shown to cause annoyance, when the sound level exceeds the threshold of hearing (i.e., the lowest sound levels that a listener can detect) (HGC, 2010). Further, research shows that to be physically felt, infrasound must exceed 100–110 dB (Ellenbogen et al., 2012). While there is some variation in the literature and between individual sensitivities, there is fairly good agreement on the level of the threshold of hearing among the various studies that have been completed (Figure A).

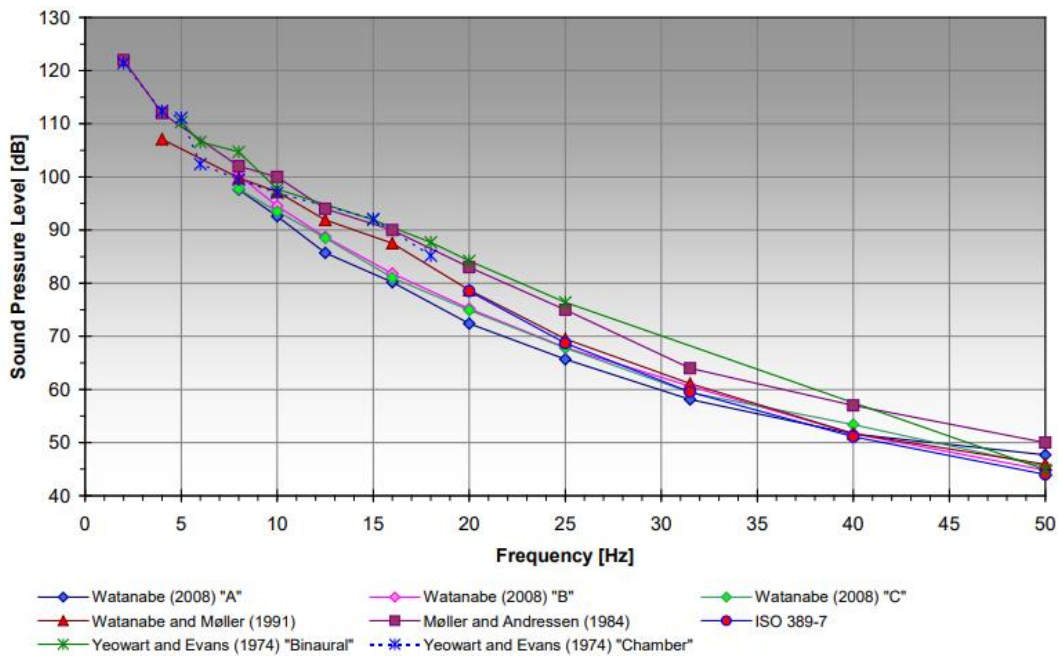


Figure A: Threshold of Hearing Data from Various Papers (Source: HGC, 2010)

**Measuring Infrasound**

In 2010, Sonus, an acoustic consulting firm based in South Australia, completed a study to measure infrasound produced by a range of natural and manmade sources using a methodology specifically designed to measure infrasound (Table S.1). Sound levels measured using the G-weighting filters, expressed as dBG. The G-weighting network was applied to the measured infrasound pressure levels as it has been standardized to determine the human perception (i.e. threshold of hearing) and annoyance due to noise that lies within the infrasound frequency range. By comparison, when measuring audible sound levels, meters are usually equipped with weighting circuits to simulate the frequency response characteristics of the human ear.

**Table S.1: Measured Levels of Infrasound from Natural & Manmade Sources**

Source	Infrasound Level (dBG)
Threshold of Hearing	85
Ambient Infrasound <i>(As measured 100 m from nearest wind turbine with negligible wind and no turbine operation)</i>	62
<b>Natural Sources</b>	
Adjacent to Beach – 25 m from high water	75
Cliff Face – 250 m from coastline	69
Inland Forest – 8 km from coastline	57
<b>Anthropogenic Sources</b>	
Business District (70 m from two major road corridors)	76
Gas Fired Power Station (350 m away)	74
Wind Farm – 100 m downwind	66
Wind Farm – 200 m downwind	63
Wind Farm – 360 m downwind	61
Outside Residence – 1.2 km from nearest wind turbine	58

Source: Sonus 2010

The results of the study indicate that while turbines do produce infrasound, levels are well below established levels that can be perceived by humans and are comparable to natural and urban sources that are common in the environment.

**Infrasound and Potential Health Concerns**

Concerns about infrasound from wind turbines is thought to have originated from the experience of neighbours of early wind turbine designs with downwind rotors (rotors downwind of the tower). In contrast, all modern utility scale wind turbines have upwind rotors that produce significantly lower infrasound emissions (Bastasch et al., 2006). Several studies and panels have been assembled to evaluate the perceived health effects associated with wind turbines.

A study by Evans et al. (2013) concluded that measured infrasound levels at rural locations both near to and away from wind farms were no higher than infrasound levels measured at the urban locations. Human activity and traffic were the main sources of infrasound within urban locations, while localized wind conditions were found to be the main source of infrasound in rural locations. All measurements were below the levels that can be perceived by humans, with most by a significant margin (Evans et al., 2013).

A scientific advisory panel with expertise in audiology, acoustics, occupational/environmental medicine, and public health was assembled by the wind industry in early 2009 to conduct a review of current literature available on the issue of perceived health effects of wind turbines (Colby et al., 2009). Following their review and analysis of the information, the panel reached consensus on the following conclusions:

- There is no evidence that the audible or sub-audible sounds emitted by wind turbines have any direct adverse physiological effects.
- The ground-borne vibrations from wind turbines are too weak to be detected by, or to affect, humans.
- Sounds emitted by wind turbines are not unique. There is no reason to believe, based on the levels and frequencies of the sounds and the panel's experience with sound exposures in occupational settings, that the sounds from wind turbines could plausibly have direct adverse health consequences.

The Chief Medical Officer of Health in Ontario also conducted a review of papers and reports (from 1970 to 2010) on wind turbines and health from scientific bibliographic databases, grey literature, and from a structured Internet search. The report concluded that “low frequency sound and infrasound from current generation upwind model turbines are well below the pressure sound levels at which known health effects occur. Further, there is no scientific evidence to date that vibration from low frequency wind turbine noise causes adverse health effects” (CMOH of Ontario, 2010).

The Massachusetts panel concluded that “measured levels of infrasound produced by modern upwind wind turbines at distances as close as 68 m are well below that required for non-auditory perception”. Further, the panel concluded that “the weight of the evidence suggests no association between noise from wind turbines and measures of psychological distress or mental health problems” (Ellenbogen et al., 2012).

A new study found that infrasound (generated acoustically as part of the study to correspond to real world wind farms) had no influence on reported annoyance or on the measured response on the autonomic nervous system (Maijila et al., 2021). The study concluded that participants did not detect infrasonic ranges of simulated wind turbine noise.

Overall, potential impacts on nearby residents as a result of Project generated infrasound are anticipated to be negligible based on the scientific findings discussed above and distances to nearby receptors.

## DECIBEL - Main Result

Calculation: MVL - Noise - October 2024 - 0.7GAF - Pockwock WTGs Included

Noise calculation model:

ISO 9613-2 General

Wind speed (at hubheight):

Loudest up to 95% rated power

Ground attenuation:

General, Ground factor: 0.7

Meteorological coefficient, CO:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

2: WTG plus ambient noise is compared to ambient noise plus margin (FR etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Fixed penalty added to source noise of WTGs with pure tones

WTG catalogue

Height above ground level, when no value in NSA object:

1.5 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

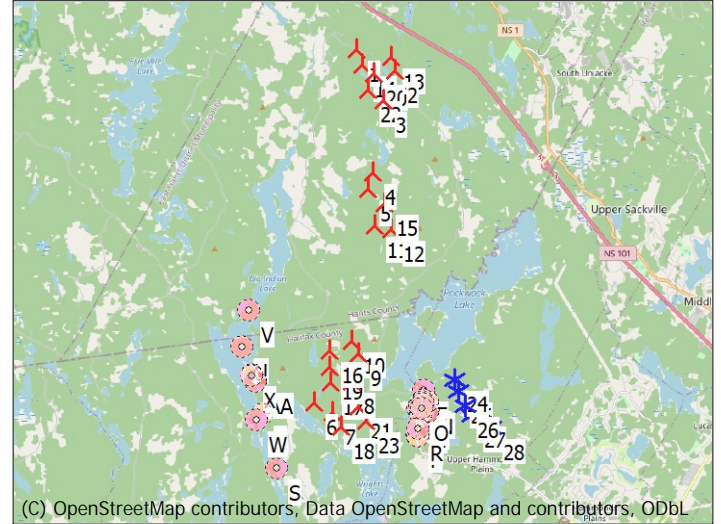
0.0 dB; Uncertainty margin in model has priority

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0.0 dB(A)

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:250,000

▲ New WTG      ★ Existing WTG      ■ Noise sensitive area

## WTGs

	Eastings	Northing	Z	Row data/Description	WTG type			Noise data			Wind speed	LwA,ref		
			[m]		Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Creator	Name	[m/s]	[dB(A)]
1	430,208.16	4,969,533.72	188.9	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
2	431,494.68	4,968,849.62	161.5	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
3	431,091.24	4,967,861.73	165.6	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
4	430,708.53	4,965,468.51	176.0	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
5	430,550.76	4,964,936.36	175.4	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
6	428,705.62	4,957,915.65	129.2	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
7	429,311.17	4,957,577.71	164.3	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
8	429,975.24	4,958,596.73	118.2	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
9	430,199.60	4,959,520.25	162.0	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
10	429,963.98	4,959,943.88	153.0	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
11	430,795.13	4,963,730.67	184.9	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
12	431,295.17	4,963,593.49	181.3	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
13	431,356.49	4,969,278.92	175.0	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
14	430,397.12	4,969,058.78	162.7	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
15	431,078.69	4,964,462.88	185.1	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
16	429,227.04	4,959,632.24	119.4	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
17	429,255.63	4,958,593.30	139.4	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
18	429,604.24	4,957,126.73	94.7	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
19	429,240.92	4,959,091.97	132.6	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
20	430,799.40	4,968,744.80	167.4	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
21	430,173.24	4,957,791.90	119.9	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
22	430,588.08	4,968,205.90	176.5	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
23	430,425.05	4,957,310.58	121.3	NORDEX N163/5.9 590...	Yes	NORDEX	N163/5.9-5,900	5,900	163.0	125.0	USER	Mode 0.a 125m HH - 109.2 dB(A)	10.0	109.1 g
24	433,352.84	4,958,632.97	134.9	VESTAS V100-2.0 2000 ...	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	EMD	Level 0 - Mode 0 - - 07-2013	10.0	105.0 h
25	433,498.33	4,958,252.41	162.8	VESTAS V100-2.0 2000 ...	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	EMD	Level 0 - Mode 0 - - 07-2013	10.0	105.0 h
26	433,695.56	4,957,783.30	162.6	VESTAS V100-2.0 2000 ...	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	EMD	Level 0 - Mode 0 - - 07-2013	10.0	105.0 h
27	433,926.55	4,957,457.68	152.1	VESTAS V100-2.0 2000 ...	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	EMD	Level 0 - Mode 0 - - 07-2013	10.0	105.0 h
28	434,533.81	4,957,055.43	132.0	VESTAS V100-2.0 2000 ...	Yes	VESTAS	V100-2.0-2,000	2,000	100.0	95.0	EMD	Level 0 - Mode 0 - - 07-2013	10.0	105.0 h

h) Generic octave distribution used

g) Data calculated from data for other wind speed (uncertain)

## Calculation Results

### Sound level

Noise sensitive area

No.	Name	Eastings	Northing	Z	Demands			Sound level				Demands fulfilled ?
				[m]	Immission height [m]	Ambient noise [dB(A)]	Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Noise
A	Noise sensitive point: User defined (82)	432,097.60	4,956,785.20	143.0	1.5	35.0	5.0	40.0	33.4	37.3	2.3	Yes
B	Noise sensitive point: User defined (83)	432,202.73	4,957,733.60	116.7	1.5	35.0	5.0	40.0	34.9	38.0	3.0	Yes
C	Noise sensitive point: User defined (84)	432,288.94	4,957,758.46	123.3	1.5	35.0	5.0	40.0	35.0	38.0	3.0	Yes

To be continued on next page...

## DECIBEL - Main Result

Calculation: MVL - Noise - October 2024 - 0.7GAF - Pockwock WTGs Included

...continued from previous page

No.	Name	Easting	Northing	Z	Immission height [m]	Ambient noise [dB(A)]	Demands Additional exposure [dB(A)]	Ambient+WTGs [dB(A)]	Sound level From WTGs [dB(A)]	Ambient+WTGs [dB(A)]	Additional exposure [dB(A)]	Demands fulfilled? Noise
D	Noise sensitive point: User defined (85)	432,204.15	4,957,779.61	113.3	1.5	35.0	5.0	40.0	35.0	38.0	3.0	Yes
E	Noise sensitive point: User defined (86)	432,364.98	4,958,307.88	111.9	1.5	35.0	5.0	40.0	35.6	38.3	3.3	Yes
F	Noise sensitive point: User defined (87)	432,138.43	4,957,696.97	112.4	1.5	35.0	5.0	40.0	34.9	38.0	3.0	Yes
G	Noise sensitive point: User defined (88)	432,227.72	4,957,447.80	127.1	1.5	35.0	5.0	40.0	34.5	37.8	2.8	Yes
H	Noise sensitive point: User defined (89)	432,227.85	4,957,469.26	125.5	1.5	35.0	5.0	40.0	34.6	37.8	2.8	Yes
I	Noise sensitive point: User defined (90)	432,247.44	4,957,510.68	125.7	1.5	35.0	5.0	40.0	34.6	37.8	2.8	Yes
J	Noise sensitive point: User defined (91)	432,468.64	4,957,570.64	149.7	1.5	35.0	5.0	40.0	35.0	38.0	3.0	Yes
K	Noise sensitive point: User defined (92)	432,298.25	4,957,904.85	117.7	1.5	35.0	5.0	40.0	35.2	38.1	3.1	Yes
L	Noise sensitive point: User defined (93)	432,291.29	4,957,847.56	120.7	1.5	35.0	5.0	40.0	35.1	38.1	3.1	Yes
M	Noise sensitive point: User defined (94)	432,443.45	4,957,935.74	136.7	1.5	35.0	5.0	40.0	35.6	38.3	3.3	Yes
N	Noise sensitive point: User defined (95)	432,462.46	4,957,898.33	140.3	1.5	35.0	5.0	40.0	35.6	38.3	3.3	Yes
O	Noise sensitive point: User defined (96)	432,255.95	4,957,678.04	122.6	1.5	35.0	5.0	40.0	34.9	37.9	2.9	Yes
P	Noise sensitive point: User defined (97)	432,117.90	4,956,775.33	144.0	1.5	35.0	5.0	40.0	33.3	37.3	2.3	Yes
Q	Noise sensitive point: User defined (98)	432,335.23	4,957,974.68	113.2	1.5	35.0	5.0	40.0	35.3	38.2	3.2	Yes
R	Noise sensitive point: User defined (99)	432,124.55	4,957,027.98	135.0	1.5	35.0	5.0	40.0	33.9	37.5	2.5	Yes
S	Noise sensitive point: User defined (100)	427,423.90	4,955,748.40	74.8	1.5	35.0	5.0	40.0	29.6	36.1	1.1	Yes
T	Noise sensitive point: User defined (101)	426,980.10	4,957,546.40	75.1	1.5	35.0	5.0	40.0	32.2	36.8	1.8	Yes
U	Noise sensitive point: User defined (102)	426,348.72	4,959,779.74	74.6	1.5	35.0	5.0	40.0	28.9	36.0	1.0	Yes
V	Noise sensitive point: User defined (103)	426,573.10	4,960,993.18	76.7	1.5	35.0	5.0	40.0	28.1	35.8	0.8	Yes
W	Noise sensitive point: User defined (104)	426,766.27	4,957,370.58	68.1	1.5	35.0	5.0	40.0	30.9	36.4	1.4	Yes
X	Noise sensitive point: User defined (105)	426,635.77	4,958,844.53	76.4	1.5	35.0	5.0	40.0	30.8	36.4	1.4	Yes
Y	Noise sensitive point: User defined (106)	426,632.33	4,958,852.75	77.1	1.5	35.0	5.0	40.0	30.8	36.4	1.4	Yes
Z	Noise sensitive point: User defined (107)	426,998.11	4,957,548.72	75.6	1.5	35.0	5.0	40.0	32.2	36.8	1.8	Yes
AA	Noise sensitive point: User defined (108)	426,755.73	4,958,635.17	74.7	1.5	35.0	5.0	40.0	31.4	36.6	1.6	Yes

### Distances (m)

WTG	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	12888	11968	11958	11922	11431	11993	12254	12232	12195	12175	11815	11870	11811	11852	12031	12901	11753	12652	14064	12414	10490	9282
2	12079	11139	11120	11093	10578	11171	11425	11404	11364	11321	10974	11031	10955	10994	11197	12090	10907	11838	13719	12171	10428	9271
3	11122	10189	10174	10143	9638	10219	10476	10454	10415	10383	10030	10086	10018	10057	10250	11134	9965	10883	12656	11104	9371	8221
4	8794	7878	7870	7833	7350	7902	8163	8142	8105	8092	7729	7784	7730	7771	7943	8807	7668	8558	10260	8756	7167	6093
5	8297	7390	7385	7345	6872	7411	7674	7653	7617	7611	7245	7299	7252	7293	7456	8310	7187	8063	9705	8207	6652	5601
6	3575	3502	3587	3501	3680	3440	3553	3550	3565	3779	3593	3586	3738	3757	3558	3598	3630	3532	2518	1765	3005	3744
7	2897	2896	2983	2900	3140	2830	2919	2919	2937	3157	3005	2992	3153	3168	2946	2919	3050	2867	2628	2331	3691	4377
8	2790	2389	2461	2374	2407	2343	2529	2519	2518	2696	2424	2434	2555	2583	2459	2812	2441	2661	3824	3174	3815	4161
9	3329	2684	2733	2655	2482	2661	2900	2884	2869	2992	2648	2678	2747	2784	2761	3349	2636	3149	4683	3776	3860	3914
10	3812	3146	3191	3115	2905	3127	3370	3354	3337	3450	3099	3132	3191	3229	3223	3831	3082	3629	4904	3828	3619	3550
11	7067	6160	6156	6116	5645	6181	6444	6423	6387	6383	6017	6070	6025	6066	6226	7080	5958	6833	8665	7266	5948	5032
12	6855	5930	5919	5885	5393	5957	6216	6195	6157	6136	5776	5832	5773	5814	5993	6868	5714	6618	8748	7429	6246	5391
13	12516	11576	11558	11531	11017	11608	11863	11842	11802	11761	11413	11470	11395	11434	11636	12527	11347	12275	14090	12522	10738	9567
14	12391	11468	11458	11423	10930	11494	11754	11733	11695	11673	11315	11370	11310	11350	11532	12403	11252	12154	13638	12009	10124	8926
15	7745	6823	6813	6777	6288	6848	7109	7087	7050	7031	6670	6726	6668	6799	6886	7757	6609	7508	9450	8040	6656	5687
16	4043	3530	3590	3506	3406	3496	3712	3699	3691	3842	3524	3546	3636	3671	3605	4064	3523	3896	4282	3066	2882	2983
17	3368	3070	3146	3059	3122	3019	3185	3178	3182	3372	3120	3126	3255	3281	3137	3391	3141	3268	3384	2505	3140	3599
18	2517	2668	2758	2681	3003	2598	2643	2646	2671	2899	2804	2782	2952	2961	2708	2538	2860	2522	2579	2657	4200	4913
19	3672	3258	3327	3241	3221	3216	3409	3399	3397	3568	3280	3294	3405	3436	3330	3694	3290	3546	3805	2739	2973	3276
20	12030	11100	11087	11055	10554	11129	11387	11366	11327	11298	10943	10999	10933	10973	11162	12042	10879	11792	13428	11832	10009	8829
21	2172	2030	2116	2031	2252	1967	2083	2080	2093	2306	2128	2119	2275	2292	2086	2194	2170	2096	3426	3203	4310	4818
22	11520	10596	10585	10551	10056	10623	10882	10861	10823	10800	10442	10497	10436	10477	10659	11532	10379	11283	12853	11254	9433	8255
23	1753	1827	1917	1840	2181	1756	1808	1810	1833	2060	1965	1942	2113	2120	1867	1775	2022	1723	3383	3453	4766	5329
24	2234	1460	1377	1431	1040	1533	1634	1619	1575	1382	1282	1321	1146	1154	1454	2231	1212	2021	6593	6465	7097	7179
25	2028	1396	1306	1378	1135	1469	1504	1492	1454	1235	1249	1273	1101	1095	1369	2022	1196	1840	6570	6556	7311	7448
26	1884	1494	1407	1491	1430	1560	1506	1501	1474	1245	1403	1406	1261	1238	1443	1872	1374	1743	6594	6720	7613	7812
27	1949	1746	1665	1752	1778	1804	1699	1699	1680	1462	1689	1681	1558	1529	1685	1933	1673	1853	6724	6947	7926	8159
28	2451	2428	2352	2440	2504	2480	2339	2343	2331	2128	2391	2378	2268	2236	2361	2432	2383	2409	7229	7570	8627	8881

WTG	W	X	Y	Z	AA
1	12641	11270	11264	12407	11432
2	12415	11123	11117	12163	11260
3	11348	10058	10052	11096	10194
4	9007	7776	7771	8746	7894
5	8460	7241	7236	8197	7356
6	2014	2269	2275	1746	2078
7	2553	2960	2967	2313	2766
8	3435	3349	3353	3156	3220
9	4051	3627	3629	3760	3556
10	4105	3505	3506	3812	3465
11	7529	6417	6413	7255	6502

To be continued on next page...

Project:

Melvin Lake Wind Project - EA

Licensed user:

Strum Consulting  
Suite 210 - 211 Horseshoe Lake Dr  
CA-HALIFAX B3S0B9  
902.835.5560 (24/7)  
Eric Johnson / ejohnson@strum.com  
Calculated:  
2024-10-01 1:03 PM/4.0.424

## DECIBEL - Main Result

Calculation: MVL - Noise - October 2024 - 0.7GAF - Pockwock WTGs Included

...continued from previous page

WTG	W	X	Y	Z	AA
12	7696	6653	6650	7416	6722
13	12762	11453	11447	12514	11596
14	12239	10885	10878	12001	11041
15	8300	7163	7158	8029	7256
16	3342	2708	2709	3051	2665
17	2773	2632	2636	2487	2500
18	2848	3430	3437	2640	3223
19	3014	2617	2620	2722	2527
20	12068	10740	10734	11824	10888
21	3433	3691	3696	3184	3520
22	11490	10161	10155	11246	10309
23	3659	4088	4094	3435	3901
24	6706	6720	6724	6447	6597
25	6790	6888	6892	6538	6753
26	6942	7139	7144	6702	6992
27	7161	7422	7426	6929	7267
28	7774	8098	8103	7552	7937



Project:

Melvin Lake Wind Project - EA

Licensed user:

Strum Consulting
Suite 210 - 211 Horseshoe Lake Dr
CA-HALIFAX B3S0B9
902.835.5560 (24/7)
Eric Johnson / ejohnson@strum.com
Calculated:
2024-11-01 11:49 AM/4.0.424

DECIBEL - Main Result

Calculation: 241101 - MVL - Low Frequency Model

Noise calculation model:

Finland Low frequency

Wind speed (at 10 m height):

Highest noise value at receptor

Spectral distribution:

From 20.0 Hz to 200.0 Hz

Meteorological coefficient, CO:

Selected option: Fixed value: 0.0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure tone penalty is subtracted from demand

Model: 5.0 dB(A)

Height above ground level, when no value in NSA object:

4.0 m; Don't allow override of model height with height from NSA object

Uncertainty margin:

0.0 dB; Uncertainty margin in NSA has priority

Deviation from "official" noise demands. Negative is more restrictive,

positive is less restrictive.:

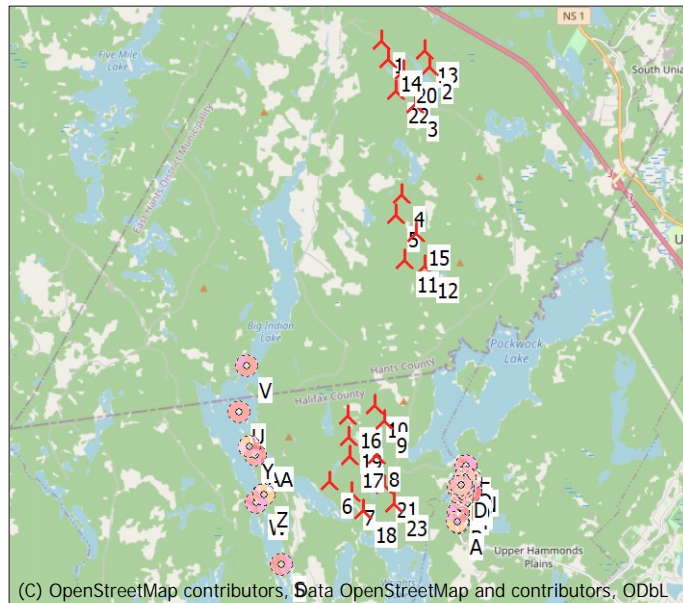
0.0 dB(A)

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20

All coordinates are in

UTM (north)-NAD83(NSRS/CSRS) (US+CA GPS meas. at curr. year), GRS80 Zone: 20



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:200,000

New WTG Noise sensitive area

WTGs

Table with columns: Easting, Northing, Z, Row data/Description, WTG type (Valid, Manufact., Type-generator), Power, rated, Rotor diameter, Hub height, Noise data (Creator, Name), First wind speed, LwaRef, Last wind speed, LwaRef. Contains 23 rows of turbine data.

f) From other hub height

Calculation Results

Sound level

Noise sensitive area

Table with columns: No., Name, Easting, Northing, Z, Immission height, Most critical demand Frequency, Predicted sound level Noise, Demands fulfilled? WTG noise, Noise. Contains 3 rows of noise sensitive area data.

To be continued on next page...

## DECIBEL - Main Result

Calculation: 241101 - MVL - Low Frequency Model

...continued from previous page

Noise sensitive area				Most critical demand			Predicted sound level		Demands fulfilled ?
No.	Name	Easting	Northing	Z	Immission height	Frequency	Noise	WTG noise	Noise
				[m]	[m]	[Hz]	[dB]	[dB]	
D	Noise sensitive point: User defined (58)	432,204.15	4,957,779.61	113.3	4.0	100.0	59.1	27.4	Yes
E	Noise sensitive point: User defined (59)	432,364.98	4,958,307.88	111.9	4.0	100.0	59.1	27.0	Yes
F	Noise sensitive point: User defined (60)	432,138.43	4,957,696.97	112.4	4.0	100.0	59.1	27.6	Yes
G	Noise sensitive point: User defined (61)	432,227.72	4,957,447.80	127.1	4.0	100.0	59.1	27.1	Yes
H	Noise sensitive point: User defined (62)	432,227.85	4,957,469.26	125.5	4.0	100.0	59.1	27.1	Yes
I	Noise sensitive point: User defined (63)	432,247.44	4,957,510.68	125.7	4.0	100.0	59.1	27.1	Yes
J	Noise sensitive point: User defined (64)	432,468.64	4,957,570.64	149.7	4.0	100.0	59.1	26.4	Yes
K	Noise sensitive point: User defined (65)	432,298.25	4,957,904.85	117.7	4.0	100.0	59.1	27.1	Yes
L	Noise sensitive point: User defined (66)	432,291.29	4,957,847.56	120.7	4.0	100.0	59.1	27.1	Yes
M	Noise sensitive point: User defined (67)	432,443.45	4,957,935.74	136.7	4.0	100.0	59.1	26.7	Yes
N	Noise sensitive point: User defined (68)	432,462.46	4,957,898.33	140.3	4.0	100.0	59.1	26.6	Yes
O	Noise sensitive point: User defined (69)	432,255.95	4,957,678.04	122.6	4.0	100.0	59.1	27.1	Yes
P	Noise sensitive point: User defined (70)	432,117.90	4,956,775.33	144.0	4.0	100.0	59.1	26.7	Yes
Q	Noise sensitive point: User defined (71)	432,335.23	4,957,974.68	113.2	4.0	100.0	59.1	27.0	Yes
R	Noise sensitive point: User defined (72)	432,124.55	4,957,027.98	135.0	4.0	100.0	59.1	27.0	Yes
S	Noise sensitive point: User defined (73)	427,423.90	4,955,748.40	74.8	4.0	100.0	59.1	25.1	Yes
T	Noise sensitive point: User defined (74)	426,980.10	4,957,546.40	75.1	4.0	100.0	59.1	26.9	Yes
U	Noise sensitive point: User defined (75)	426,348.72	4,959,779.74	74.6	4.0	100.0	59.1	25.0	Yes
V	Noise sensitive point: User defined (76)	426,573.10	4,960,993.18	76.7	4.0	100.0	59.1	24.5	Yes
W	Noise sensitive point: User defined (77)	426,766.27	4,957,370.58	68.1	4.0	100.0	59.1	26.1	Yes
X	Noise sensitive point: User defined (78)	426,635.77	4,958,844.53	76.4	4.0	100.0	59.1	26.1	Yes
Y	Noise sensitive point: User defined (79)	426,632.33	4,958,852.75	77.1	4.0	100.0	59.1	26.1	Yes
Z	Noise sensitive point: User defined (80)	426,998.11	4,957,548.72	75.6	4.0	100.0	59.1	27.0	Yes
AA	Noise sensitive point: User defined (81)	426,755.73	4,958,635.17	74.7	4.0	100.0	59.1	26.5	Yes

\*)Spectral distribution, please see details in report "Detailed results"

### Distances (m)

NSA	WTG																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	12888	12079	11122	8794	8297	3575	2897	2790	3329	3812	7067	6855	12516	12391	7745	4043	3368	2517	3672	12030	2172	11520
B	11968	11139	10189	7878	7390	3502	2896	2389	2684	3146	6160	5930	11576	11468	6823	3530	3070	2668	3258	11100	2030	10596
C	11958	11120	10174	7870	7385	3587	2983	2461	2733	3191	6156	5919	11558	11458	6813	3590	3146	2758	3327	11087	2116	10585
D	11922	11093	10143	7833	7345	3501	2900	2374	2655	3115	6116	5885	11531	11423	6777	3506	3059	2681	3241	11055	2031	10551
E	11431	10578	9638	7350	6872	3680	3140	2407	2482	2905	5645	5393	11017	10930	6288	3406	3122	3003	3221	10554	2252	10056
F	11993	11171	10219	7902	7411	3440	2830	2343	2661	3127	6181	5957	11608	11494	6848	3496	3019	2598	3216	11129	1967	10623
G	12254	11425	10476	8163	7674	3553	2919	2529	2900	3370	6444	6216	11863	11754	7109	3712	3185	2643	3409	11387	2083	10882
H	12232	11404	10454	8142	7653	3550	2919	2519	2884	3354	6423	6195	11842	11733	7087	3699	3178	2646	3399	11366	2080	10861
I	12195	11364	10415	8105	7617	3565	2937	2518	2869	3337	6387	6157	11802	11695	7050	3691	3182	2671	3397	11327	2093	10823
J	12175	11321	10383	8092	7611	3779	3157	2696	2992	3450	6383	6136	11761	11673	7031	3842	3372	2899	3568	11298	2306	10800
K	11815	10974	10030	7729	7245	3593	3005	2424	2648	3099	6017	5776	11413	11315	6670	3524	3120	2804	3280	10943	2128	10442
L	11870	11031	10086	7784	7299	3586	2992	2434	2678	3132	6070	5832	11470	11370	6726	3546	3126	2782	3294	10999	2119	10497
M	11811	10955	10018	7730	7252	3738	3153	2555	2747	3191	6025	5773	11395	11310	6668	3636	3255	2952	3405	10933	2275	10436
N	11852	10994	10057	7771	7293	3757	3168	2583	2784	3229	6066	5814	11434	11350	6709	3671	3281	2961	3436	10973	2292	10477
O	12031	11197	10250	7943	7456	3558	2946	2459	2761	3223	6226	5993	11636	11532	6886	3605	3137	2708	3330	11162	2086	10659
P	12901	12090	11134	8807	8310	3598	2919	2812	3349	3831	7080	6868	12527	12403	7757	4064	3391	2538	3694	12042	2194	11532
Q	11753	10907	9965	7668	7187	3630	3050	2441	2636	3082	5958	5714	11347	11252	6609	3523	3141	2860	3290	10879	2170	10379
R	12652	11838	10883	8558	8063	3532	2867	2661	3149	3629	6833	6618	12275	12154	7508	3896	3268	2522	3546	11792	2096	11283
S	14064	13719	12656	10260	9705	2518	2628	3824	4683	4904	8665	8748	14090	13638	9450	4282	3384	2579	3805	13428	3426	12853
T	12414	12171	11104	8756	8207	1765	2331	3174	3776	3828	7266	7429	12522	12009	8040	3066	2505	2657	2739	11832	3203	11254
U	10490	10428	9371	7167	6652	3005	3691	3815	3860	3619	5948	6246	10738	10124	6656	2882	3140	4200	2973	10009	4310	9433
V	9282	9271	8221	6093	5601	3744	4377	4161	3914	3550	5032	5391	9567	8926	5687	2983	3599	4913	3276	8829	4818	8255
W	12641	12415	11348	9007	8460	2014	2553	3435	4051	4105	7529	7696	12762	12239	8300	3342	2773	2848	3014	12068	3433	11490
X	11270	11123	10058	7776	7241	2269	2960	3349	3627	3505	6417	6653	11453	10885	7163	2708	2632	3430	2617	10740	3691	10161
Y	11264	11117	10052	7771	7236	2275	2967	3353	3629	3506	6413	6650	11447	10878	7158	2709	2636	3437	2620	10734	3696	10155
Z	12407	12163	11096	8746	8197	1746	2313	3156	3760	3812	7255	7416	12514	12001	8029	3051	2487	2640	2722	11824	3184	11246
AA	11432	11260	10194	7894	7356	2078	2766	3220	3556	3465	6502	6722	11596	11041	7256	2665	2500	3223	2527	10888	3520	10309

NSA	WTG
A	1753
B	1827
C	1917
D	1840

To be continued on next page...

Project:

Melvin Lake Wind Project - EA

Licensed user:

Strum Consulting  
Suite 210 - 211 Horseshoe Lake Dr  
CA-HALIFAX B3S0B9  
902.835.5560 (24/7)  
Eric Johnson / ejohnson@strum.com  
Calculated:  
2024-11-01 11:49 AM/4.0.424

## DECIBEL - Main Result

Calculation: 241101 - MVL - Low Frequency Model

...continued from previous page

WTG	
NSA	23
E	2181
F	1756
G	1808
H	1810
I	1833
J	2060
K	1965
L	1942
M	2113
N	2120
O	1867
P	1775
Q	2022
R	1723
S	3383
T	3453
U	4766
V	5329
W	3659
X	4088
Y	4094
Z	3435
AA	3901

APPENDIX N  
PROJECT TEAM CVs

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## AREAS OF SPECIALIZATION

- Wetland and Watercourse Assessment and Delineations
- Wildlife Surveys
- Environmental Approvals

## RELEVANT EXPERIENCE

Ms. Johnston oversees, manages, and executes regulatory and environmental projects. She is a member of NS Wetland Delineation, Maritime College of Forest Technology and holds a NS Advanced Wetlands Delineator and Evaluator certification. She provides project management for Federal and Provincial environmental assessment processes and is an experienced EA practitioner. Ms. Johnston manages and completes environmental baseline surveys including habitat surveys, species at risk and wildlife surveys, botany and bird surveys, wetland and watercourse delineations, characterizations and functional assessment, fish habitat evaluation, HADD authorizations, and bat hibernacula identification. Ms. Johnston also completes watershed evaluations, and guides clients through the environmental and permitting stages of mining, industrial, alternative energy, and development projects.

Ms. Johnston supports clients through provincial and federal environmental assessment requirements and supports project teams to identify and evaluate project environmental risk. Ms. Johnston has completed several Federal and Provincial environmental assessment registration documents in the past two years and is currently preparing two Impact Assessment Agency of Canada (IAAC) environmental impact statements (EIS) for two mining projects in Nova Scotia. Ms. Johnston consults regularly with federal and provincial regulatory agencies, First Nation communities, and local landowners and stakeholder groups.

Ms. Johnston regularly completes applications for wetland and watercourse alteration and HADD authorizations across Atlantic Canada, and has developed and implemented wetland compensation programs, fish habitat offsetting projects, and wetland and fish habitat restoration projects. Ms. Johnston is a trained wetland evaluator, biologist, and restoration professional. Ms. Johnston regularly implements species at risk, habitat and biodiversity mitigation planning, permitting, monitoring plans, and offsetting programs.

## REPRESENTATIVE PROJECTS AND ROLES

**Environmental Assessment, NS, 2014-Present – Biophysical Project Manager:** Provision of biophysical project management and coordination of field surveys to support the IAAC environmental assessment process for three proposed mining projects in Nova Scotia.

**Environmental Impact Statements, NS, 2017-2021 – Project Manager/Team Lead:** Project managed and led the project team for the completion of Environmental Impact Statements for submission to the Impact Assessment of Canada.

**Environmental Assessment, NS, 2021 – Biophysical Lead:** Led the biophysical studies for an Environmental Assessment completed for a gold mining project.

## EDUCATION

- Masters in Environmental Studies, York University, Toronto, ON (1999)
- Bachelor of Science (Biology), Dalhousie University, Halifax, NS (1997)
- Bachelor of Arts (Political Science), Honours, Dalhousie University, Halifax, NS (1997)

## TRAINING

- Standard First Aid, AED, CPR (C) (2023)
- Wetland Construction: Principles, Planning, and Design, Rutgers (2016)
- Wetland Functional Assessment Training Workshop, NSE (2013)
- Urban Wetland Restoration: A Watershed Approach (2012)
- Nova Scotia Advanced Wetlands Delineation and Evaluation Course (2009)
- Water Management and Wetland Restoration Training Course (2009)
- Identifying and Delineating Wetlands for Nova Scotia (2008)

**Biophysical Field Surveys, NS, 2014-2020 – Biophysical Project Manager:** Completion of biophysical field surveys to support expansion efforts for several mines in Nova Scotia and aggregate quarries to meet requirements under the provincial environmental assessment process.

**Environmental Assessment, NS, 2016-2020 – Project Manager:** Completion of provincial environmental assessments for multiple quarry expansions in Nova Scotia.

**Surface Water and Functional Assessments, NS, 2014 – Project Manager/Regulatory Lead:** Completion of surface water assessment and functional assessment, wetland permitting, watercourse permitting, and compensation planning and implementation at an 18-hole golf course and residential development along the south shore of Nova Scotia.

**Environmental Baseline Studies, NS, 2013 – Project Manager:** Completion of environmental baseline surveys for the provincial environmental assessment process for a proposed re-development of a goldmine in eastern Nova Scotia.



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## AREAS OF SPECIALIZATION

- Water Quality Assessments and Monitoring
- Marine Ecology and Biology
- Fish and Fish Habitat Assessments
- Wetland/Watercourse Assessments and Permitting
- Vegetation Surveys
- Environmental Assessment
- Wildlife Assessments

## RELEVANT EXPERIENCE

Ms. Mosher is an Environmental Scientist with Strum working in our Environmental Science Group. She has experience working in many aspects of technical projects and environmental assessments, including field surveys, interpretation of analytical results and data, conducting background research, reporting and regulatory permitting.

Ms. Mosher is an experienced field biologist and has conducted water quality sampling, sediment sampling, habitat assessment, and flora and fauna surveys. As a qualified wetland delineator in Nova Scotia, she has delineated numerous wetlands of a variety of habitat types and conducted multiple functional assessments for permitting and constraints assessments. She is knowledgeable of freshwater and marine fish species of the Maritimes and is proficient in fish sampling methodology. She has been active in fish habitat characterization and watercourse assessments and has performed water quality sampling at contaminated and remote sites. She has conducted an intensive study exploring the effect of anthropogenic pollution on terrestrial biogeochemical cycles.

Ms. Mosher has more than 12 years of experience conducting research and assessments in marine ecology. Her experience involves marine fish sampling, water quality assessments, benthic habitat surveys, and investigations into salt marsh communities. Her marine experience comprises projects in both academia and industry, as well as coordinating a stewardship program with coastal ecology community groups.

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Power Environmental Assessments, 2022-Present – Project Manager:** Providing project management on several 100 MW+ wind farms in Nova Scotia.

**Environmental Assessment EverWind Point Tupper Green Hydrogen/Ammonia Project - Phase 1, NS, 2022 – Environmental Scientist:** Completed key reporting requirements for the submission of an EA Registration Document for a green ammonia/hydrogen facility located in Cape Breton, NS. This was the first green ammonia/hydrogen facility to be approved in both Nova Scotia and Canada.

**Transmission Line Upgrade Environmental Assessment, NL (2020 - 2021) – Environmental Scientist:** Completed a desktop review, assessment of environmental impacts, with special consideration of nearby salmon rivers, and reporting to fulfill the permitting requirements for an environmental assessment release for the upgrade and rebuilding of 60 km of transmission line in Central Newfoundland. Developed an Environmental Protection Plan to mitigate potential environmental impacts during construction as a condition of the EA release.

## EDUCATION

- Master of Science (Earth and Atmospheric Sciences) - University of Alberta, Edmonton, AB (2013)
- Bachelor of Science (Hons.) – St. Francis Xavier University, Antigonish, NS (2010)

## TRAINING

- Backpack Electrofishing – Canadian Rivers Institute (2017)
- WESP-AC Training Course (2016)
- Pleasure Craft Operator License (2016)
- NSCSA WHMIS (2015)
- Wetland Delineation and Wetland Plant Identification – Fernhill Institute (2013)
- Canada Safety Council Defensive Driving Course (2012)

**Substation Upgrades and Transmission Line Construction Environmental Assessment, NL (2020 - 2021) – Environmental Assessment – Environmental Scientist:** Completed a desktop review, assessment of environmental impacts, with special consideration of a nearby salmon river, and reporting to fulfill the permitting requirements for an environmental assessment release for the upgrade of a substation, including 2 km of new transmission line, in Central Newfoundland. Developed an Environmental Protection Plan to mitigate potential environmental impacts during construction as a condition of the EA release.

**Melford Atlantic Gateway Project, NS (2017 - 2021):** Participated in the collection and reporting of supplemental information in support of provincial and federal permitting for the construction of a marine terminal and associate rail line. Field assessments included wetland delineation, rare plant surveys, fish sampling and watercourse assessments.

Prepared applications and supporting documentation for submissions for wetland alteration, watercourse alterations and Fisheries Act applications, including the preparation of compensation and offsetting plans.

**Windsor Forks Wetland Compensation Project, NS (2015 – ongoing) – Environmental Scientist:** Contributed in the design and construction for the restoration of 10 ha former quarry into wetland habitat.

**Wetland Delineation and Permitting, NS (2013 – ongoing) – Environmental Scientist:** Completed wetland delineation, functional assessments, and permitting submissions at numerous sites around Nova Scotia. Project included post-construction and pre-construction monitoring, compensation planning, and erosion and sedimentation control plans.

**Transmission Line Wetlands, Watercourses and Rare Plants Assessments, NS (2020) – Environmental Scientist:** Conducted wetland, watercourse and rare plant surveys along 60 km of transmission line, including data compilation and reporting.

**Marine Platform Installation Fisheries Act Application, NS (2020):** Prepared an application under Section 35 of the federal *Fisheries Act* related to the harmful alteration, disruption and destruction of fish habitat (HADD) for an infilling project within an active harbour. Work involved a desktop review of the marine environment, interpretation of benthic video footage, and the evaluation of environmental impacts on the marine habitat.

**Marine Aquaculture Facility Environmental Assessments, NS (2019 - 2020) – Environmental Scientist:** Completed reporting and research for environmental assessment registration documents for 6 marine based aquaculture facilities located throughout coastal Nova Scotia.

**Highway Interchange and Connector Road Environmental Screening and Permitting, NS (2018- 2020):** Completed wetland delineation, watercourse assessments and fish sampling in support of design and environmental permitting for a new highway interchange and connector road. Prepared an environmental assessment report and supporting documents, and associated wetland permitting.

**Lantz Development Wetland Assessments and Permitting, NS (2018 - 2020) – Environmental Scientist:** Completed wetland delineation, functional assessments and reporting to fulfill the requirements for a wetland alteration permit in support of two mixed-used residential and commercial developments.

**Drinking Water Supply Water Withdrawal Permit Renewal, NS (2018) – Environmental Scientist:** Prepared a water withdrawal permit for a drinking water supply, including assessment of environmental impacts and review of water quality data.

**Tidal Energy Environmental Assessment, NS (2017 - 2019) – Environmental Scientist:** Completed field surveys and report writing for an environmental assessment for a marine tidal energy development. Work completed included benthic invertebrate assessment, marine mammal surveys, interpretation of benthic habitat surveys, wetland delineation and rare plant surveys.

**Susie Lake Water Quality Monitoring Program, NS (2016-2018) – Environmental Scientist:** Conducted a monthly water quality sampling program at watercourses and lakes adjacent to a busy commercial area and highway. Work included water sampling, interpretation of laboratory results and reporting.

**Spaceport Environmental Assessment, NS (2017) – Environmental Scientist:** Completed wetland assessments, rare plant surveys, and terrestrial mammal surveys at a remote coastal barren and bog site in Nova Scotia. Involved in the writing and assessment of environmental impacts to the surrounding environment from the development and operation of a rocket launch facility.

**Drinking Water Reservoir Dam Replacement Environmental Assessment, NS (2016) – Environmental Scientist:** Completed field assessments for vegetation, wetlands, and freshwater mussels. Contributed to the analysis of environmental effects on the surrounding aquatic and terrestrial environment for the replacement of a dam at a drinking water supply reservoir.

**Hardwood Lands Community Wind Project Environmental Assessment, NS (2015) – Environmental Scientist:** Involved in the completion of desktop research, wetland assessments, rare plant surveys, avian surveys, habitat mapping and moose surveys for a 6 MW wind power project environmental assessment.

**Marine Surveys for Wastewater Treatment System Upgrade at a Salmon Hatchery, NB (2015) – Environmental Scientist:** Completed desktop and field-based studies into environmental effects of effluent into a coastal bay off the Bay of Fundy. Studies include fish habitat assessment, dispersion modeling, water quality assessment and benthic habitat surveys.

**Dam Decommissioning Wetland and Rare Plant Assessments, NS (2015) – Environmental Scientist:** Completed wetland delineation, wetland functional assessments, and rare plant surveys at hydroelectric dam sites around Nova Scotia. Assessed the potential impact of dam decommissioning and changing water levels within reservoirs on sensitive environmental features.

**Belmont Wetland Compensation, NS (2015 - ongoing) – Environmental Scientist:** Concept design, pre-construction ecological monitoring and construction monitoring for the remediation of a former wetland at the Belmont Quarry in Belmont, NS, as part of wetland compensation.

**Auld's Cove Transmission Project Avian Assessment, NS (2016) – Environmental Scientist:** Conducted nocturnal bird surveys, audio surveys, desktop research and statistical analysis for an extensive avian assessment at the Auld's Cove transmission lines and the Canso Causeway.

**Susie Lake Developments Environmental Assessment, NS (2015) – Environmental Scientist:** Conducted desktop and field studies, including a mainland moose monitoring program, water quality sampling and socio-economic analysis for a large residential and commercial subdivision.

**Safe, Clean Drinking Water Project Environmental Constraints Assessment, NB (2014) – Environmental Scientist:** Participated in desktop analysis and field studies identifying environmental constraints for the construction and upgrade of a city-wide drinking water distribution system. Components included wetland delineation, fish sampling, rare plant surveys, fish habitat assessments, reporting and permitting consultation.

**Safe, Clean Drinking Water Project Groundwater Site Environmental Assessment, NB (2014) – Environmental Scientist:** Participated in the desktop analysis and field studies to determine the environmental baseline condition at the site of three proposed groundwater wells. Field studies included wetland delineation and functional assessment, fish sampling, and fish habitat assessment.

**Marine Terminal Expansion Environmental Assessment, NB (2014) – Environmental Scientist:** Completed desktop studies, background research and analysis of environmental impacts on marine environmental components including fish habitat, benthic habitat, navigation and marine mammals.

**Maritime Link Transmission Line Wetland and Rare Plant Assessment, NL and NS (2013 - 2014) – Environmental Scientist:** Conducted field surveys to assess rare plants and wetlands along the footprint of the transmission and grounding lines for the purpose of construction planning and permitting. This involved the identification and functional assessment of wetlands and areas of rare plants along a combined total of 500 km of transmission and grounding line corridor as well as all associated site facilities.

**Marine Training Mitigation Measures (2014) – Environmental Scientist:** Participated in a desktop analysis to identify environmental impacts of naval at-sea training exercises throughout North America and Europe. This involved the identification of environmental components and potential adverse impacts, and the development of appropriate mitigating measures.

**Chebucto Terence Bay Wind Farm Project Environmental Assessment, NS (2014) – Environmental Scientist:** Completed desktop studies, background research and analysis of environmental and socio-economic impacts for a 7.2 MW wind farm.

**Aboiteau Replacement Fisheries Application, NS (2014) – Field Biologist:** Conducted fish sampling and fish habitat assessments and compiled a fisheries application to assess the impact of replacing an existing aboiteau on the local fish population.

**Sediment Erosion Control Program, NB (2014) – Environmental Scientist:** Conducted statistical analysis to determine the effectiveness of erosion control measures around watercourses at an active military base.

**Fish Monitoring Program, NL (2013) – Environmental Scientist:** Fish sampling, watercourse assessments and water quality analysis as part of an ongoing fish and fish habitat monitoring program at a highly contaminated military site. Fish tissue was analyzed for contaminant concentration and the resulting trends were analyzed.

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## AREAS OF SPECIALIZATION

- Forest management and characterization
- Environmental and carbon modelling
- Stakeholder engagement
- Hydrologic assessment and modelling

## RELEVANT EXPERIENCE

Dr. Foster is an environmental scientist with a special interest in forests, their management, and how people relate to them. More broadly, he is interested in natural resource management and how resources can be utilized sustainably. He has experience in a variety of fieldwork and teaches field work planning, methods, and reporting to undergraduate students at Saint Mary's University.

Dr. Foster completed his PhD in 2024, researching the relationship between forest management and water treatability for potable water supplies. Specifically, his research examined how timber harvesting can be used to reduce watershed dissolved organic carbon (DOC) production to reduce the chemical and financial cost of water treatment in the face of continual and concerning increases in DOC. This study resulted in academic publications on its findings, and forest management recommendations to the region's water utility.

Before this research, David worked for two years as a research associate at Dalhousie University, studying various urban forest and non-urban forest matters. In addition to a contracted characterization of Halifax Regional Municipality's (HRM), urban forest, during this time, he also served as research associate for Prof. William Lahey during the Nova Scotia Independent Review of Forest Practices. He contributed research services, assisted with logistics, and provided writing input, including a report on the history of forest practices review. During this process, he had the opportunity to hear a diverse range of perspectives from stakeholders with contrasting perspectives on natural resource usage, helping to develop an understanding of what is at stake in the management of the natural environment.

## REPRESENTATIVE PROJECTS AND ROLES

### **Wind Power and Infrastructure Environmental Assessments, NS (2024-Ongoing) – Environmental Scientist:**

Supporting writing and editing several sections of a variety of environmental assessment for proposed wind farms and associated infrastructure. Contributions in several biophysical and socioeconomic sections, demonstrating a breadth in competencies related to communicating the findings of environmental assessment.

**Crown Land Forest Stakeholder Engagement, NS (2023-Present) – Chair/Facilitator:** Work with the NS Natural Resources and Renewables as Chair of the Nova Scotia Western Region Crown Land Stakeholder Interaction Committee (WRSIC). This committee is comprised of diverse stakeholders that come together to learn about and contribute to the management of public forests in Nova Scotia. Stakeholders include representatives from industry (mills and silvicultural contractors), Indigenous groups with a specific environmental mandate, NGOs including recreationalist and research groups, elected members of local government, private forest landowners, and more. The group meets at least twice a year to receive updates and provide input on public forest management policy and practice, and to review harvest proposals.

## EDUCATION

- Doctor of Philosophy, Interdisciplinary PhD Program, Dalhousie University, Halifax, NS (2024). Thesis: Mitigating forested water supply carbon loading through timber harvesting.
- Master of Resource and Environmental Management, Dalhousie University, Halifax, NS (2016). Report: Location matters: the importance of tree placement to urban forest values.
- Bachelor of Science, Combined Honours in Biology and Sustainability, Dalhousie University, Halifax, NS (2014). Thesis: Strategic environmental assessment of changes in Bill C-45 to the Navigable Waters Protection Act and potential effects of environmental protection in Canada.

## TRAINING

- St. John's Ambulance First Aid & CPR/AED Level C (2024)
- Environmental Impact Assessment certificate (2014)

**Pockwock Watershed Carbon Loading Study, NS (2018-2024) – PhD Candidate/Lead Researcher:** Completed extensive study of the Pockwock watershed, source of water for more than 1/5<sup>th</sup> of Nova Scotians. Led three summers of fieldwork with research assistants to characterize forest composition, determine hydrologic carbon export, and model watershed hydrology. Wrote custom forest management model and novel implementation of Natural Resources Canada's Carbon Budget Model of the Canadian Forest Sector (CBM-CFS3) for use in a programming environment (R). Research was conducted in partnership through a pan-Canadian research network (the forWater network) including other researchers, forest regulators, the regional water utility, forest managers, forestry contractors, ENGOs, and more. He coordinated with diverse stakeholders to ensure that forest management within the watershed during the study period met research objectives and was properly implemented and characterized and met the research goals of the network.

**Community Greening Program, NS (2013-2017) – Coordinator:** Developed and implemented a program of urban green space appreciation, education, and improvement. Creating a program of the Sierra Club Canada Foundation Atlantic Canada Chapter focused on urban green spaces, worked with a diverse range of stakeholders to plan, fund, and carry out urban greening initiatives in HRM, including numerous tree plantings. This required working with local government to obtain permission and support for initiatives, members of the public to gain support and to solicit for participation in local events, and business and organizations to find and otherwise support initiatives. These efforts led to planting over 2,700 trees in HRM and establishing the municipality's first publicly hosted community urban orchard.



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## PROFESSIONAL ASSOCIATIONS

- NAWTA Professional

## AREAS OF SPECIALIZATION

- Fish & Fish Habitat
- Fish Rescues
- Electrofishing Surveys
- Environmental Reporting
- Nest Sweeps and Avian Surveys
- Stream Restoration

## RELEVANT EXPERIENCE

Mr. MacNeill has been in the environmental consulting industry since May 2022. He joined Strum as an Environmental Scientist upon completing his master's degree in Resource and Environmental Management at Dalhousie University. While studying at Dalhousie University, Mr. MacNeill specialized in fisheries conservation and management, forest ecology, environmental assessment, and avifauna regulations. Mr. MacNeill also obtained his Bachelor of Wildlife degree in 2018 from the University of Prince Edward Island, a specialization within their faculty of science.

During his academic vocation, Mr. MacNeill contributed to a number of large projects, collaborating with multidisciplinary teams to contribute on issues both local and abroad. Through his Dalhousie Forest Ecology and Management course, he contributed on an overview of wind farm impacts on bat species across Canada as a partnered case study with CBCL. During his MREM internship, Mr. MacNeill worked for McCallum Environmental Ltd. as a Junior Environmental Scientist, now part of Strum. In this role, he carried out a multitude of different environmental surveys on flora and fauna alike. For his final MREM research project, Mr. MacNeill identified and compared the variations in avifauna survey methodologies of environmental consulting firms within Nova Scotia.

Apart from his time at both Strum and McCallum, Mr. MacNeill has held numerous environmental positions. He has previously worked for the Belfast Area Watershed Group (BAWG), a local watershed group in Prince Edward Island, overseeing various environmental projects and programs as the organization's field supervisor. These included water quality monitoring, habitat restoration, invasive species management, bank swallow monitoring, benthic macroinvertebrate surveys, sediment monitoring, and stream enhancement. Mr. MacNeill also helped create informational material for the 2018 BAWG annual general meeting and the end of field season stakeholder meeting. He spent three years working in the aquaculture industry as an aquaculture technician at Halibut PEI, carrying out water chemistry/water quality checks, as well as fish health treatments and facility checks. Mr. MacNeill also worked two years as a conservation technician for Ducks Unlimited, maintaining large fish ladders and impoundments, enhancing small marsh projects, and contributing to fish passage monitoring. He worked as an invasive species technician in partnership with the Island Nature Trust and the Department of Agriculture and Agri-foods Canada's weeds lab. There, he contributed to research on the management methods of *Celastrus orbiculatus* in the field, communicating with herbaria across North America, and managing project datasets.

Mr. MacNeill is active in conducting environmental assessments (EAs), electrofishing surveys, aquatic sampling, wetland delineations, watercourse assessments, old-growth forest surveys, and other ecological studies. He has conducted significant fieldwork across large projects in remote locations. He is knowledgeable with provincial and federal regulations and works closely with senior staff preparing reports and regulatory submissions.

## EDUCATION

- Master of Resource and Environmental Management (MREM) - Dalhousie University, Halifax, NS (2023)
- Bachelor of Wildlife Conservation - University of Prince Edward Island (2018)
- Diploma of Wildlife Conservation Technology – Holland College (2016)

## TRAINING

- Pilot Certificate – Small Remotely Piloted Aircraft (VLOS) Basic operations (2024)
- Intermediate First Aid – Level C CPR/AED (2024)
- Animal Use and Care – Aquatic Animals (2019)
- WESP-AC Training (2018)
- Backpack and Boat Electrofishing Certification (2015)
- ATV Certification – Canada Safety Council (2014)
- CABIN Field Assistant Certification (2014)
- Chainsaw Certification (2014)
- Pleasure Craft Operator License (2014)

## REPRESENTATIVE PROJECTS AND ROLES

**Habitat Suitability Index Assessment, NS, 2024-Present – Environmental Scientist:** Completed Habitat Suitability Index assessments in watercourses to support offsetting for multiple mining projects. This assessment helps identify areas that could be used for restoration efforts.

**Avian Acoustic Processing and Reporting, NS, 2024–Present Environmental Scientist:** Contributed on various wind farm EA and post-EA reports for acoustic processing. This ranged from manually verifying avifauna calls via audio files and spectrograms to reporting on the processed data.

**Post-Approval Work, NS, 2023-Present – Environmental Scientist:** Conducted data compilation and reports for various wind farm projects including the Goose Harbour Lake Wind Farm, Mersey River Wind Farm, and Weavers Wind Farm to fulfill post-approval conditions such as the creation of Wildlife Management Plans.

**Winter Wildlife Surveys for Wind Development, NS, 2023-Present - Environmental Scientist:** Performed several wildlife surveys during the winter looking for the presence of species of interest for wind development projects.

**Avian Radar Studies for Wind Development, NS, 2023– Junior Environmental Scientist:** Conducted maintenance of several avian radar monitoring systems for remote areas during the spring and summer seasons. These systems were maintained weekly with tasks ranging from physical repairs to dealing with software issues.

**Avian Surveys, NS, 2022-Present – Environmental Scientist:** Completion of avian surveys, including diurnal; watches. pre-construction studies, nightjar surveys, owl surveys, and pre-construction nest searches for multiple projects such as mines, quarries, wind power projects and residential development.

**Wetland and Watercourse Delineation, NS, 2022-Present – Environmental Scientist:** Completed biophysical assessments for a wind farm, quarry, and mining EAs. The scope of work included wetland and watercourse delineation and characterization in the Study Area, as well as data management.

**Wind Power Environmental Assessments, NS, 2022-Present – Environmental Scientist:** Conducted field work on several 100 MW+ wind farms in Nova Scotia, including wetland, watercourse, fish and fish habitat, old-growth, avian, avian radar, bat, wildlife, flora, and lichen surveys. Prepared, reviewed, and organized field data using several methods of collection. Prepared EA related documents, including methodologies, effects assessments, and desktop reviews.

**EVREC Wind Power Environmental Assessments, NL, 2024 – Environmental Scientist:** Conducted field work on several 100 MW+ wind farms in Newfoundland, including avian and flora surveys.

**Windy Ridge Windfarm Archaeological Surveys, NS 2023 – Junior Environmental Scientist:** Assisted members of Boreas Heritage Consulting Incorporated in completing archeological scouting surveys along projected turbine pads and access roads.

**Canso Spaceport Groundwater Monitoring, NS, 2023 – Environmental Technician:** Conducted fieldwork including water level monitoring, water quality sampling, flow rate monitoring, and aided with data compilation.

**Dobson Lake Rotenone Pre-treatment Baseline Monitoring, NS, 2022 – Junior Environmental Scientist:** Lead the deployment of invertebrate activity traps (IATs) and Eckman dredge grabs of aquatic soil samples for baseline surveys prior to Rotenone treatment for smallmouth bass. Opportunistic amphibian survey also completed.

**Highway Twinning Project, New Glasgow to Antigonish, NS, 2022 – Junior Environmental Scientist:** Aided on various biophysical surveys on the highway twinning project along Highway 104 from New Glasgow to Antigonish. The scope of work included field leading various sized fish rescues, conducting nest sweeps, and performing data entry.

## AREAS OF SPECIALIZATION

- Wetland and Watercourse Assessment
- Wildlife Surveying and Assessment
- Ecological Forestry and Agriculture
- Benthic Invertebrate Analysis
- Environmental Data Collection, Interpretation, and Reporting

## RELEVANT EXPERIENCE

Ms. Schultz joined the Strum team in 2022 as an Environmental Scientist upon completing her coursework for her Masters of Resource and Environmental Management degree at Dalhousie. While studying at Dalhousie, Ms. Schultz specialized in a number of different areas of natural resource management in Nova Scotia, such as forestry, agriculture, and wetlands. She obtained her Bachelor of Science degree in 2019 from the University of Manitoba in the department of biological sciences where she specialized in ecology and environmental sciences. Her honours thesis focused on the ecological application of double-stranded RNA-based pesticides to control flea beetles in canola cropping systems in Manitoba. This project incorporated both field-based sample collection and lab-based sample preparation using techniques in molecular biology. During her graduate studies, Ms. Schultz worked on a number of large projects, collaborating with multidisciplinary teams to contribute to local issues. As her final MREM Research Project, she produced GIS and statistics-based recommendations for Nova Scotia Natural Resources and Renewables regarding identification of old-growth forest locations in the province. Through the Dalhousie Faculty of Management's 'Management Without Borders' course, Ms. Schultz helped develop recommendations for pest control in the Municipality of the District of Argyle. She also developed an understory vegetation sampling protocol to be used in the Acadia Research Forest by the Canadian Forestry Service.

Ms. Schultz has previously contributed to a research project on bat activity hosted by a global non-profit organization by conducting statistical analysis on acoustic data. Ms. Schultz also held a previous position with Nova Scotia Department of Lands and Forestry as a summer intern while completing her graduate studies. This role required remote field work to carry out the provincial old-growth scoring protocol, and desktop GIS-based work to plan and navigate to study locations. Prior to this internship, Ms. Schultz held a position with Agriculture and Agri-Foods Canada as a Junior Policy Analyst. In this role, she focused on the development of the Clean Fuel Standard, which included significant correspondence with agricultural stakeholders and a major deliverable of a jurisdictional scan of clean fuel regulations across the world.

Ms. Schultz is active in conducting ecological studies to contribute to a variety of environmental assessments. She has conducted significant fieldwork across large projects in remote locations, in both Nova Scotia and Manitoba. She is knowledgeable with provincial and federal regulations, working closely with senior staff preparing reports and regulatory submissions.

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Power Environmental Assessments, 2022-Present – Environmental Scientist/Field Coordinator:** Providing coordination and field work on several 100 MW+ wind farms in Nova Scotia. Coordinated and completed all aspects of field surveys for environmental assessments, including wetland, watercourse, fish & fish habitat, avian, avian radar,

## EDUCATION

- Masters of Resource and Environmental Management (MREM) - Dalhousie University, Halifax, NS (2022)
- Bachelor of Science (Hons.) - University of Manitoba, Winnipeg, MB (2019)

## TRAINING

- Nova Scotia Watercourse Alteration for Installers (2023)
- Wetland Ecosystem Services Protocol for Atlantic Canada Training – Maritime College of Forest Technology (2022)
- Wetland Delineation Training – Maritime College of Forest Technology (2022)
- Backpack Electrofishing – Canadian Rivers Institute (2022)
- Pilot Certificate for Small Remotely Piloted Aircraft System (RPAS), Visual line-of-sight (VLOS) – Transport Canada (2022)
- Wilderness First Aid and CPR "C" – St. John's Ambulance (2022)

bat, wildlife, flora, and lichen surveys. Prepared, reviewed, and organized field data using several methods of collection. Prepared materials for and participated in public consultation meetings, as well as aiding in the preparation of materials for public outreach. Led regulatory meetings to brief provincial and federal agencies on project activities. Prepared EA related documents, including methodologies, effects assessments, and desktop reviews.

**Environmental Effects Monitoring Program, Halifax International Airport Authority, NS, 2022-Present – Environmental Scientist:** Conducting preliminary research, planning, field work, data composition, and reporting for benthic macroinvertebrate monitoring plan following CABIN protocol.

**Environmental Assessment EverWind Point Tupper Green Hydrogen/Ammonia Project - Phase 1, NS, 2022 – Environmental Scientist:** Completed field studies and key reporting requirements for the submission of an EA Registration Document for a green ammonia/hydrogen facility located in Cape Breton, NS. This was the first green ammonia/hydrogen facility to be approved in both Nova Scotia and Canada.

**Environmental Study, Wind Farm, NS, 2022 – Environmental Scientist:** Reporting on winter wildlife tracking and winter avian surveys for several Environmental Screening Reports.

**Environmental Study, Transmission Line, NS, 2022 – Environmental Scientist:** Collecting winter wildlife data, reviewing a summary report of winter field work, and preparing a proposal for an old-growth forest assessment within the transmission line right-of-way.

**Contaminated Site Assessment, Ross Bay Junction, NL, 2022 – Environmental Scientist:** Identifying previously collected benthic macroinvertebrate samples and preparing a report and data summary on the diversity and abundance of species present on the Project site.

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## AREAS OF SPECIALIZATION

- Wetland and Watercourse Assessment
- Old Growth Scoring
- Wildlife Surveying and Assessment
- Bat Call Spectrogram Analysis
- Environmental Data Collection, Analysis, and Reporting

## RELEVANT EXPERIENCE

Leah Riehl joined the Strum team in 2023 as an Environmental Scientist with a specialization in environmental data collection and analysis. While studying at Saint Mary's University (SMU), Leah majored in environmental science and gained experience in a wide variety of academic disciplines including geology, geography, physics, chemistry, and biology. She is an experienced field scientist and has an in-depth knowledge of various on the ground field protocols.

Leah completed her Bachelor of Science at Saint Mary's University in 2023. During her studies, Leah specialized in environmental management, conservation, and remediation. Through completion of academic assignments throughout her degree, Leah has designed a watershed management plan for a local watershed, a remediation plan for an urban park in Halifax, and a habitat model for an endangered lichen species. She also became familiar with ArcGIS, QGIS, and the Forest Ecosystem Classification system, and gained baseline knowledge of species identification with a focus on plants and herpetofauna of Nova Scotia.

Leah also completed the Cooperative Education program during her undergraduate degree at SMU, gaining professional experience through three summer work placements at the Discovery Centre, the Mersey Tobeatic Research Institute (MTRI), and Nature Conservancy Canada (NCC), respectively. Through these placements, Leah gained experience in environmental education, species at risk research and management, protected areas management, and invasive species management.

At MTRI, Leah planned and participated in field surveys for species at risk including Blanding's turtles, Eastern ribbonsnakes, and various bat species. Leah became experienced with turtle nesting surveys, snake and turtle visual surveys, bat roost surveys, radio tracking, and acoustic monitoring. At NCC, Leah gained experience writing reports summarizing conditions of conserved areas and using ArcGIS to create maps of protected areas. She also gained further experience with species surveys by conducting surveys for both invasive and at risk species.

At Strum, Leah is active in conducting field work to support environmental assessments, including but not limited to wetland delineations, watercourse assessments, old growth scoring, rare plant surveys, bird surveys, acoustic monitoring, pellet group inventory assessments, and wildlife surveys. She is also experienced in data compilation, data analysis, and report preparation and is trained in the operation of utility vehicles, trailer towing, and WESPAC assessment. She has participated in work across large projects and works closely with senior staff to prepare reports and regulatory submissions.

## EDUCATION

- Bachelor of Science, Major in Environmental Science, Saint Mary's University, Halifax, NS (2023)

## TRAINING

- Pleasure Craft Operator License, Transport Canada (2021)
- WHIMIS (2023)
- Emergency First Aid & CPR/AED Level C, St. John Ambulance (2023)
- Bear Awareness Training, Worksite Safety (2023)
- Wetland Ecosystem Services Protocol for Atlantic Canada (WESPAC), Maritime College of Forest Technology (2023)
- Trailer/Towing Training (2023)
- Utility Vehicle Training, Canada Safety Council (2023)

## **REPRESENTATIVE PROJECTS AND ROLES**

**Wind Power Environmental Assessments, 2023- Present:** Conducted field work and data compilation and analysis to support environmental assessments for a number of 100MW+ wind farms across Nova Scotia including but not limited to wetland and watercourse assessments, old growth scoring, avian and bat acoustic monitoring, rare plant surveys, and specialized species surveys. Prepared, interpreted, and organized field data. Prepared various environmental assessment documents, including desktop reviews, field methodologies, and effects assessments.

**Post-Approval Work, NS, 2023-Present – Junior Environmental Scientist:** Conducted data compilation and reports for various wind farm projects to fulfill post-approval conditions such as additional wetland and watercourse data collection and post-approval bat monitoring.



## AREAS OF SPECIALIZATION

- Environmental Assessment
- Environmental Approvals & Permitting
- Industrial Approvals
- Management & Monitoring Planning
- Wildlife, Wetland, & Watercourse Assessments
- Dangerous Goods Assessment

## RELEVANT EXPERIENCE

Miss Eichinger first joined the Strum team in 2020 as an Environmental Intern, while working towards her Masters of Resource and Environmental Management degree at Dalhousie. While studying at Dalhousie, Lyndsay specialized in remediation, environmental assessment, and natural resource management in Nova Scotia. Lyndsay also obtained her Bachelor of Science degree in 2019 from the University of British Columbia where she specialized in Earth and Environmental Science with a minor in Economics.

During her graduate studies, Lyndsay conducted a desktop study on the Boat Harbor Remediation Project, producing a technical review paper evaluating the cost-effectiveness of the different remedial components and technologies considered by the project. This paper has since been published in the journal Remediation titled: Review of remedial options for the Boat Harbour remediation project in Nova Scotia, Canada.

Lyndsay has worked across a variety of roles, from field intern to project manager, focusing on renewable energy projects within Atlantic Canada. She is active in the development and coordination of environmental assessments, industrial approvals, environmental approvals/permitting, along with field and monitoring programs. Lyndsay also has valued experience with and knowledge of provincial and federal regulations, allowing her to provide advisory services for various projects. More recently, she has been responsible for post-approval regulatory compliance and associated management and monitoring planning for both small-scale and large-scale projects.

Lyndsay held a previous position with RAM Environmental Response as a HAZMAT Responder based in the BC interior. Her role was fast-paced and multidisciplinary, working in tandem with senior management on emergency response planning and remediation teams on site. Lyndsay has responded to an array of emergency situations involving dangerous goods, such as train derailments and fuel spills, all requiring coordination between clients, contractors, first responders, and government parties. She has a strong background in safety protocols, erosion control implementation, response tactics, and emergency remediation measures for a variety of contaminants. Lyndsay is well practiced in remote travel along with ATV, snowmobile, and 4x4 use.

## REPRESENTATIVE PROJECTS AND ROLES

**Post-Approval Work, EverWind Point Tupper Green Hydrogen/Ammonia Project Phase 1, NS, 2023 – Environmental Scientist:** On-going post-approval work (following approval of the EA Registration Document) including the development of environmental management and monitoring plans. These plans are developed to avoid/mitigate potential impacts to nearby environmental and residential receptors throughout the lifespan of the Project.

## EDUCATION

- Masters of Resource and Environmental Management (MREM) - Dalhousie University, Halifax, NS (2021)
- Bachelor of Science - University of British Columbia (2019)

## TRAINING

- ATV Certification (2022)
- RPAS Pilot Certification (2022)
- BICO – Search and Rescue Program (2022)
- Electrofishing Certification (2021)
- Standard First Aid and WHMIS (2021)
- Stream Gauging Training from UBC (2019).
- Environmental Impact Assessment Certificate received from the Centre for Environmental Assessment Research at UBC (2019).
- Derailment Response - CP Railway (2018)
- Railway Safety Training (2018)  
Transportation of Dangerous Goods (2018)

**Environmental Assessment EverWind Point Tupper Green Hydrogen/Ammonia Project - Phase 1, NS, 2022 –**

**Environmental Scientist:** Completed field studies and key reporting requirements for the submission of an EA Registration Document for a green ammonia/hydrogen facility located in Cape Breton, NS. This was the first green ammonia/hydrogen facility to be approved in both Nova Scotia and Canada.

**Post-Approval Work, Various Wind Developments, 2023 – Environmental Scientist:** On-going post-approval work for various wind projects (following approval of the EA Registration Document) including the development of environmental management and monitoring plans. These plans are developed to avoid/mitigate potential impacts to nearby environmental and residential receptors throughout the lifespan of the Project.

**Wind Development Environmental Assessments, 2022-Present – Environmental Scientist:** Providing project coordination and report writing on several 100 MW+ wind farms in Nova Scotia.

**Environmental Assessment Registration and Environmental Protection Plan, NL, 2022 – Junior Environmental**

**Professional:** Completed reporting requirements for the submission of an EA Registration Document and associated Environmental Protection Plan for a transmission line decommissioning project located in Newfoundland and Labrador.

**Windsor Forks Wetland Compensation Project, NS, 2021-2022 – Junior Environmental Professional:** Completed reporting requirements for the final year of wetland monitoring and assessment for a constructed wetland.

**Watercourse Alteration Approval and Fish Surveys, NS, 2021 – Junior Environmental Professional:** Conducted electrofishing / fish salvage for an emergency watercourse alteration along a section of railway. This involved the capture, identification, documentation, and release of fish from the impacted section of the watercourse.

**Mahone Bay Well Installation and Monitoring, NS, 2021 – Junior Environmental Professional:** Groundwater well installs were completed at a construction site in Mahone Bay, NS along with vegetation transects to characterize the sites environmental features.

**Pirate Harbour Wind Farm Project, NS) 2021-Present – Junior Environmental Professional:** Participated in field

**Melford Atlantic Gateway Project, NS, 2020-Present – Junior Environmental Professional:** Completed various reporting and background research requirements such as consultation documents, engagement record keeping, and the development of a wetland compensation plan.

**Transmission Line, NS, 2020 – Environmental Technician:** Participated in wetland and watercourse assessments, Wildlife surveys, and rare plant and lichen surveys, along the linear corridor spanning 100kms from the NS/NB border to Onslow, NS.

**Shellfish Harvesting and the Persistent Threat of Sewage Pollution, NS, 2020 – MREM Tri-course project:** Working in a multi-disciplinary team to assess the threat of sewage pollution on the shellfish industry of Nova Scotia, including the biophysical, socio-political, law and policy aspects of the greater issue of pollution in the near shore environment. This involved research into government programs, policies and regulations, as well as different stakeholders in the industry.

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## PROFESSIONAL ASSOCIATIONS

- Eco Canada (Environmental Professional in-training)

## AREAS OF SPECIALIZATION

- Wetland and Watercourse Assessment and Delineations
- Wildlife Surveys
- Surface and Groundwater
- Climate Change and GHG Assessments
- Industrial Approvals
- Environmental Approvals

## RELEVANT EXPERIENCE

Mr. Scott joined the Strum team in 2022 and is working as a Junior Environmental Scientist with the Environmental Assessment and Approvals Group. Mr. Scott is experienced in many components of Environmental Assessments, including field surveys, delineations, avian

radar analysis, wildlife acoustic analysis, and GHG quantification. In an industrial setting, Mr. Scott has experience managing projects and ensuring regulatory compliance and successful approvals. Mr. Scott is experienced in groundwater monitoring, groundwater development, sampling, and conducting aquifer testing and interpreting results.

Mr. Scott has completed fieldwork and report writing to support wetland permitting, Environmental Management Plans and Environmental Assessments for numerous projects across Nova Scotia. Additionally, Mr. Scott has been involved in fieldwork, report writing, and analysis concerning projects throughout the province relating to Level I/II Groundwater Assessments for Subdivisions, groundwater withdrawal approvals, and groundwater monitoring plan programs.

## REPRESENTATIVE PROJECTS AND ROLES

**Municipal Groundwater Supply Assessment, NS, 2023 – Junior Environmental Scientist:** Worked with a team of groundwater experts to analyze well logs, available pump tests and well chemistry data to inform municipal planning around groundwater supply development. This assessment involved determining the depth and stratification of sediments, yields and water quality to understand the yield and safety of a potential groundwater supply.

**Groundwater Monitoring Program, Canso, NS, 2023 – Junior Environmental Scientist:** Ongoing groundwater monitoring work (following approval of the groundwater monitoring plan), including developing groundwater wells, groundwater sampling, aquifer testing and analysis. The purpose of the monitoring plan is to avoid/mitigate potential impacts to nearby environmental receptors throughout the lifespan of the Project.

**Greenhouse Gas Inventories, NS, 2023 – Present – Junior Environmental Scientist:** Experienced in conducting direct and indirect GHG emission inventories to quantify large-scale industrial impacts and identify areas for mitigation.

**Post-Approval Work, Point Tupper Green Hydrogen/Ammonia Project, NS – Phase 1, NS, 2023 – Junior Environmental Scientist:** Development of the groundwater monitoring plan for the hydrogen/ammonia industrial facility as required following the EA approval. Completed fieldwork to support surface water monitoring.

**Wetland Carbon Sequestration, NS, 2023 – Present – Junior Environmental Scientist:** Designing methods and procedures for fieldwork and subsequent analysis to quantify carbon stored in wetland soils.

## EDUCATION

- Bachelor of Science (Environmental Science), Saint Mary's University, Halifax, NS (2022)

## TRAINING

- Wetland Delineation and Classification Training (2023) – Fern Hill Institution of Plant Classification
- Wetland Ecosystem Services Protocol Atlantic Canada (WESP-AC) Training (2023) – Maritime College of Forestry Technology
- Backpack Electrofishing Training (2023) – Maritime College of Forestry Technology
- Standard First Aid Level C CPR & AED (2022) – St John's Ambulance
- ATV Training Course (2022) – Canadian Safety Council
- Pilot Certificate – Small Remotely Piloted Aircraft System (RPAS), Visual line-of-sight (VLOS) (2022) – Transports Canada

**Wetland Delineation and Permitting, NS, 2023 – Present – Junior Environmental Scientist:** Completed wetland delineations, functional assessments, and permitting applications for pre-construction wetland alterations.

**Groundwater Geothermal Heating and Cooling Systems Review and Permitting, NS, 2023 – Present – Junior Environmental Scientist:** Withdrawal flow monitoring, water level monitoring, equipment inspection, water quality sampling, data compilation, data analysis, and regulatory reporting.

**Nesting Bird Searches, NS, 2023 – Junior Environmental Scientist:** Surveyed areas pre-construction for the presence of nesting bird activity. Collected field data related to observations and flagged off buffer areas surrounding nesting bird species.

**Wind Power Environmental Assessments, NS, 2022 – Present – Junior Environmental Scientist:** Conducted watercourse, wetland, fish/fish habitat, wildlife and avian assessments, and environmental assessment reporting. Quantified greenhouse gas and climate change impacts of the projects on the environment.

**Level I/II Groundwater Assessments, NS, 2022—Present—Junior Environmental Scientist:** Completed desktop assessments to determine the viability of sustainable groundwater withdrawals. Conducted drilling and pump test supervision. Sampled water to compare with drinking water guidelines and analyzed aquifer test data to determine adequate safe yields for groundwater users.

**Radar and Avian Acoustic Assessments NS, 2022 – Present – Junior Environmental Scientist:** Built and ran remote radar and acoustic monitor assemblies to record the passage of avian migrant species. The radar and acoustic data were processed and analyzed to determine the patterns of avian migration. The acoustics were analyzed with machine-learning software and manually verified for accuracy.

**Various Management and Leadership Roles, NS, 2018- 2022 – Self-Employed:** Competed internationally for Canada in Sprint Kayaking. This required creating sponsorship proposals, developing relationships with sponsors and stakeholders, and managing travel and shipping logistics. Part of this role required public speaking engagements, client receptions, and providing mentorship.

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## AREAS OF SPECIALIZATION

- Fish and Fish Habitat (Freshwater and Marine)
- Avian Ecology
- Wildlife and Wildlife Habitat
- Species at Risk
- Water Quality
- Aquatic Toxicology
- Environmental Assessment
- Project Management
- Protocol and Guideline Development

## RELEVANT EXPERIENCE

Ms. Jardine is a Senior Environmental Scientist working in our Environmental Assessment & Approvals group. Carrie has 18 years professional experience as a biologist in Canada and Internationally. She has worked for clients in the municipal, provincial, federal, oil and gas, mining, utility, green energy, and international sectors. She obtains permits and approvals on behalf of clients and works on environmental assessments for federal, provincial, and international jurisdictions. Carrie is involved with project management, desktop analysis, research, field data collection, field logistics and coordination, data entry, report writing, and submission of regulatory applications. She works closely with federal and provincial regulators and clients. Carrie has extensive field experience in fish and fish habitat, avifauna, water quality, wildlife, wetlands, and species at risk.

## REPRESENTATIVE PROJECTS AND ROLES

### Environmental Impact Assessments and Screenings

**Aquatics, Species at Risk and Biodiversity, New Wind Bear Lake and Nuttby II, NS, 2022 - 2023 – Aquatics Field Lead:** Responsible for conducting fish habitat assessments, water quality, and wetland delineation for the proposed wind farm. The work was conducted in support of an EA.

**Wood Turtle Field Program, Windy Ridge, NS, 2023 – Program Lead:** Responsible for coordinating and leading the Wood Turtle field program and conducting surveys for breeding birds, migratory birds, fish and fish habitat, water quality, and wetlands. The work was conducted in support of an EA.

**Indigenous Services Canada Simple Review Supporting Surveys, NS, 2023 – Lead Biologist:** Responsible for coordinating and leading and conducting Chimney Swift and Pileated Woodpecker surveys, and fish and fish habitat assessments. Contributing author. Client liaison.

**Environmental Effects Determination (EED), Gilholmes Lake, NS, 2020-2022 – Project Manager:** Responsible for submitting an EED in accordance with Section 82 of the IAA.

**Environmental Screening, Antigonish Trunk 4 Active Transit Corridor Conversation, NS, 2022 – Avian/Fisheries Lead/Autho:** Breeding bird surveys and fish and fish habitat assessment, reporting.

## EDUCATION

- MSc., University of PEI, Charlottetown, PE (2006). Thesis: Assessing the Toxicity of Prince Edward Island Stream Sediments Using Asian medaka Embryolarval Bioassays
- BSc. (Biology, with Honours), University of PEI, Charlottetown, PE. (2003) Thesis: The Effects of Social Interactions on the Growth and Development of Japanese medaka (*Oryzias latipes*) (2003)

## TRAINING

- WHMIS (2023)
- Standard First Aid, Level C CPR and AED with the St. John Ambulance (2022)
- Restricted Operator's Certificate (Maritime)
- Small Non-Pleasure Vessel Basic Safety A3
- Small Vessel Operator Proficiency
- Wetland Delineation and Plant Adaptations and Identification Certification, Fern Hill Institute
- Bear Awareness Training
- Wilderness Survival Course
- Backpack Electrofishing: Crew Supervisor
- ATV, ARGO, and Snowmobile Training

**Environmental Impact Statement Review, Fifteen Mile Stream, NS, 2021 – Reviewer:** Responsible for the fish and fish habitat review and write up. Prepared a fish and fish habitat fact sheet and slides.

**Environmental and Social Impact Assessment, Electrical Services Building, Resilience of the Electricity Sector Infrastructure to Geophysical and Climate Related Hazards, St. Vincent and the Grenadines, 2021 – Main Author:** Main Author of the ESIA and plans.

**Review of the Federal Environmental Impact Statement for Beaver Dam Gold Mine, 2019 – Fisheries Discipline Lead:** Conducted a review of impacts to fish and provided input on the EIS.

**EED, Maritime Forces Atlantic Routine Exercises in the Arctic, Northern Canada, 2018-2019 – Contributing Author:** Contributing Author of the EED, conducted interviews, client liaison.

**Environmental Assessment, Highway 104 Sutherlands River to Antigonish, NS, 2018 – Discipline Lead/Contributing Author:** Fisheries field lead, contributing author of the EA. Conducted fish and fish habitat assessments, electrofishing, and breeding bird surveys.

**Environmental Impact Assessment, Proposed WWTP Upgrade, Saint John Airport, NB, 2016 – Main Author:** Main author for the Report, VEC Analysis, and Significance Determination.

**Environmental Impact Assessment, Dolphinarium Development, Turks and Caicos, Grand Turk, 2016 – Main Author:** Main author for the Environmental Assessment Report.

**Joint Federal-Provincial Environmental Assessment, Route 11, NB, 2010-2011 – Contributing Author:** Authored the wildlife and wildlife habitat, vegetation and wetland environment, and the current use of land and resources for traditional purposes by Aboriginal persons sections of the EA.

**Canadian Environmental Assessment Act Screening, Bay of Fundy Tidal Energy Project, NS, 2010 – Biologist:** Prepared the fisheries section of the report. Prepared the avian species at risk Post Construction Plan for ECCC. Conducted fish habitat assessments, bird surveys, wetland classification, and vegetation surveys.

**Environmental Baseline Assessment Study, Proposed Casino Mine, Yukon, 2010 – Wildlife Biologist:** Conducted wildlife snow tracking. Developed the initial habitat model for the American marten.

**Cumulative Effects Assessment, Willow Creek Reservoir Land, AB, 2009 – Fisheries Discipline Lead:** Responsible for writing the fisheries section of the report.

**Baseline Environment Assessment, Proposed Izok Mine, Nunavut, 2008 – Fisheries Biologist:** Conducted fish sampling in lakes and streams; inserted radio transmitters in fish; radio-telemetry; PIT tagging; removing fish otoliths; taking tissue samples; lake bathymetry, and water sampling.

### Protocols and Guidelines

**Development of an Options Analysis, Evaluation of Biological Effects on Targeted Aquatic Organisms After an Oil Spill, NS, 2020 – Lead Author:** Developed a list of recommended biomarkers to be part of an options analysis tool for the evaluation of biological effects on targeted aquatic species.

**Belize Comprehensive National Water Quality Monitoring Program and Protocol, Belize, 2019 – Project Manager:** Conducted stakeholder workshops and meetings, completed an inception report, and prepared the draft and final water quality monitoring program and protocol.

**Post Deposit Monitoring Approaches for Measuring Environmental Concentrations and Effects of Drugs, Antibiotics, and Pesticides Used in the Canadian Aquaculture Industry: Part I, II, NS, 2015-2018 – Main Author:** Main author of Part I and Part II of the reports and client liaison. Developed the post deposit monitoring approaches based on national and international studies and literature.

**Maritime Forces Atlantic Operating Areas Management Plan: Redesign Mitigation Sheets, NS, 2013 – Author:** Redesigned Mitigation Sheets for military exercises.

**Environmental Impact Review Guidelines, NWT, 2010 – Biologist:** Contributing author, team meetings.



## Regulatory Permitting and Compliance

**Aboiteau Replacement Design, Fish Passage and Monitoring, Avon River, NS, 2018-2023 – Fisheries Discipline Lead:** Author of the monitoring plan for the Avon River. Conducted fish and fish habitat assessments, fisheries biologist representative at the open house, regulatory meetings, lead at DFO workshops, preparing the DFO request for review and authorization and government, client and public liaison.

**Uisce Tapa Tidal Energy Project *Fisheries Act* Authorization, Parrsboro, NS, 2022-2023 – Environmental Scientist:** Prepared DFO permit for the deployment of a tidal energy array at the FORCE site in the Bay of Fundy.

**Fisheries Act Authorization, Wash Brook Floodwater Mitigation Project, NS, 2020-2023 – Fisheries Discipline Lead:** Authored the Fisheries Act Authorization, attended various meetings with DFO, involved with Indigenous engagement and consultation. Preparing monitoring plans and developing the offsetting plan.

**Halfway River Compliance with *Fisheries Act* Authorization, NS, 2020-2023 – Fisheries Discipline Lead:** Responsible for developing objectives, identifying gaps, and providing recommendations. Involved with client, DFO, and team meetings. Review of MCG reports and providing feedback.

**Port-Aux-Basque Navigation Improvement Project, NL, 2020-2021 – Lead Biologist:** Responsible for leading and directing the wildlife habitat surveys. Senior advice on fish habitat surveys, completing the DFO HADD compensation plan under the *Fisheries Act*. Liaison with DFO/ECCC.

**Regulatory Approvals and Compliance for the Oak Island Temporary Wetland Drainage, NS, 2012-2022 – Project Manager:** Prepared reports and DFO application. Field work for wetlands and fish habitat.

**Watercourse Assessment & Alteration, Cape Breton Regional Hospital Expansion Project, NS, 2020 – Project Manager Assistant:** Organized field programs, conducted a watercourse assessment, senior review and QA/QC of four watercourse alteration applications and three wetland alteration applications and reports to NSECC.

**Regulatory Applications, Donkin Proposed Haul Road Phases I, II and III, NS, 2018-2020 – Project Manager Assistant:** Prepared the fisheries report and submitted regulatory applications to DFO and NSECC. Managed field crews and the preparation of the wetlands report and regulatory application to NSECC.

**DFO Authorization Application Under the *Fisheries Act*, Summerside Port Corporation Maintenance Dredging Program, PEI, 2018-2019 – Discipline Lead:** Prepared the fisheries authorization report and application and offsetting plan. Government and community group liaison.

**Conservation and Reclamation Plans for Potable Water Pipelines, AB, 2009-2011 – Project Manager Assistant:** Coordinated field teams, report author; bird surveys, wildlife habitat, amphibian surveys, wetland identification; fish habitat assessments, electrofishing, government liaison, and regulatory applications.

## Ecological Studies

**Bat Habitat Assessment and Bird Surveys, Hartlen Point, NS, 2021-2023 – Avian Lead:** Conducted migratory, breeding bird, owl, barn swallow roosting surveys, pileated woodpecker surveys, and barn swallow habitat surveys to support the Department of National Defence (DND) in determining if the proposed. Authored sections of the report.

**Breeding Bird Surveys, Carters Beach Provincial Park, NS, 2022 – Avian Lead:** Conducted breeding bird surveys to support in the development of new access trails and parking areas for Cartes Beach Provincial Park.

**Environmental Services, Abegweit Connects – Phase I, PEI, 2021 – Field Lead:** Responsible for wetland delineation, fish and fish habitat assessment, plant surveys, breeding bird surveys, and surveys for species at risk for the proposed active transportation facilities and support infrastructure.

**Natural Systems Conservation Study, Ragged Lake Industrial Lands Reserve, NS, 2020-2021 – Fisheries Discipline Lead:** Coordinated the fish field program and participated in wetlands and water quality. Established functional analysis layers with the input of the client, stakeholders, and the project team. Applied ecological values to each layer, prepared a report, and developed constraints analysis.

**Range and Training Area Management Plan for Rifle and Grenade Ranges, NS/NL, 2015-2021 – Discipline Lead:** Fish habitat, water quality, and wildlife field programs. Conducted field studies. Contributing author.

**Ecosystem Classification Review and Assessment, Shaw Wilderness Park Forest, NS, 2020 – Project Manager:** Conducted a desktop analysis using various spatial data sources, including LIDAR, multi-spectral imagery, ortho-

imagery, and provincial forestry data to determine the boundaries of forest polygons and classify them based on the provincial FEC system.

**Wetlands, Waterbodies, and Waterways Study, Logy Bay-Middle Cove-Outer Cove, NL, 2019-2020 – Environmental Scientist / Senior Review:** Completed partial delineation of wetlands and watercourses within the boundary. Presented findings to the Town council.

**Natural Resources Inventory Update, NS, 2011-2020 – Project Manager Assistant/Field Lead:** Coordinated, designed, and executed the wildlife and bird surveys and aquatic field programs. Responsible for authoring sections of the reports and management plans

**Ecological Assessment, North Arm of Great Slave Lake Proposed Area of Interest, NWT, 2009 – Fisheries Discipline Lead:** Responsible for conducting a literature review of existing fisheries data, collecting baseline desktop information, gap analysis, and writing the fisheries section for the report.

### Species at Risk Studies

**Bat Habitat Assessment and SAR Surveys, NS, 2022-2023 – Biologist:** Responsible for coordinating and leading and conducting Chimney Swift and Pileated Woodpecker Surveys, and bat exit surveys.

**Aldershot SAR Surveys and Monitoring Year 4, BNS, 2021-2022 – Wildlife Biologist:** Responsible for spring, breeding, and fall bird surveys throughout the Aldershot property. Responsible for identifying SAR.

**Species at Risk Assessments, NS, 2018-2021 – Discipline Lead:** Aquatics, water quality, wildlife field programs, electrofishing, fish habitat assessments, invertebrate sampling, water sampling, and bird surveys. Senior reviewer and contributing author of the reports.

**Maritime Link Marine Cable Route Characterization and Constraints Analysis, NS/NL, 2015 – Biologist:** Identified physical and biological (including SAR) temporal and spatial constraints and developed constraints and sensitivity mapping. Conducted literature review and main author.

**Beaufort Sea Petroleum and Environmental Management Tool, 2009-2010 – Biologist:** Research, government liaison, reporting on Peary caribou, beluga whale, and bowhead whale and assessed the impacts of potential oil and gas leasing options and developed sensitivity-rating criteria.

**Caribou Protection Plans for Proposed Well Sites and Roads, AB, 2008 – Project Manager and Assistant:** Responsible for government liaison, and preparing and organizing the caribou protection plans.

### Aquatic and Sediment Toxicology

**Marine Water Quality Monitoring, NS, 2014-2017 and 2020-2023 – Deputy Project Manager:** Logistics and scheduling for the collection of water samples in NS for the Canadian Shellfish Sanitation Program.

**Basewide Fish Survey: Monitoring Program, Labrador, 2013-2023 – Project Manager and Assistant:** Coordinated, designed, and executed the Basewide Fish Monitoring Program in Goose Bay intermittently from 2013-2023. Collected fish for toxicology analysis, conducted analysis and observed trends over time.

**Tier I Marine Waterlot Assessment, Small Craft Harbours (SCHs), NB/NS, 2022-2023 – Project Manager/Author:** Assessed potential contaminant sources and helped to determine whether contaminants of potential concern in sediment at SCHs pose potential unacceptable risks to human and ecological receptors with the end goal of obtaining Site closure in accordance with the Federal Contaminated Sites Action Plan.

**Abercrombie Ash Management Site Chromium VI Mitigation, NS, 2019 – Fisheries Biologist:** Investigated environmental concerns at the AAM site. Conducted fish habitat assessment, electrofishing, invertebrate sampling, water quality, data analysis and reporting. Field program lead.

**DFO Waterlot Assessment Risk Screening, Small Craft Harbours, NS, 2018-2019 – Project Manager:** Project management of the Marine Sediment Sampling Programs, the Phase I ESAs, and the reports.

**Outer False Harbour Digital Still Images at a Dredged Material Disposal Site, NS, 2017 – Project Manager:** Project management of the collection of digital still images at the outer false harbour dredged material disposal site.

**Marine Sediment Sampling Program for Small Craft Harbours, NL, 2017-2018 – Contributing Author:** Reporting, benthic invertebrate analysis, tissue analysis, and assistance in risk analysis.

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## AREAS OF SPECIALIZATION

- Wetland Specialist
- Watercourse Assessment
- Forest Assessment
- Environmental Baseline Assessment
- Reporting

## RELEVANT EXPERIENCE

Rohan Kariyawansa joined the Strum team in 2022 as a Junior Environmental Technician with a specialization in wetland and watercourse delineation. While studying at Nova Scotia Community College, Rohan's focus was on ecosystem classification in Nova Scotia. He is an experienced field technician and has an in-depth knowledge of various data collection methods and on the ground field protocols. These include macroinvertebrate sampling (C.A.B.I.N. Sampling protocol), wetland delineation and watercourse assessment, plant and lichen identification, old growth forest scoring protocols, prism plot sampling, soil classification, ecosystem classification, SiMAB monitoring, and water quality monitoring. In addition to these skills, Rohan is experienced in working in remote locations as well as using OHV vehicles and canoes.

Rohan is active in conducting environmental assessments, wetland delineations, compensation projects, completing watercourse and wildlife surveys, and supporting other ecological studies. He has participated in multi-team fieldwork across large projects in remote locations. He works closely with senior staff to prepare data for reports and regulatory submissions and aids in the organization and compilation of data. Rohan also supports with Mi'kmaq engagement for larger wind farm projects. Rohan enjoys his time working to protect important ecological features and species at risk associated with each project.

In Rohan's previous position with the Saint Margarets Bay Steward Association (SMBSA), he worked two summers as an Environmental Education Consultant. His time was spent conducting stewardship-oriented tasks in the Bluff Wilderness area and multiple islands throughout Saint Margarets Bay. These tasks included public outreach and education, trail and campsite maintenance, and waste removal. Rohan continues to volunteer with the SMBSA participating as a 'residential steward' on Micou's Island. Rohan also has relevant experience as a Forest Technician working on a project for St Paul's Anglican Church. This job consisted of classifying forests, wetlands, bird surveys, analyzing soil pits, as well as searching for species at risk.

## REPRESENTATIVE PROJECTS AND ROLES

**Mersey Wind Farm Project, NS, 2022-Present – Environmental Technician:** Assisted in wetland, watercourse, and wildlife assessments as well as aided in radar studies for this project. All studies conducted were in contribution to an environmental assessment for the establishment of a windfarm. Rohan has helped collect and compile field data as well as lead site tours for Mi'kmaq elders within Mersey and other sites

**Ellershouse Wind Farm Project 2022-Present – Environmental Technician:** Conducting wetland, watercourse, and wildlife assessment as well as aiding in radar studies for this project. Rohan also has experience doing site tours with Mi'kmaq elders, and finding species at risk within project boundaries. All studies conducted were in contribution to an environmental assessment for the establishment of a wind farm. Rohan has compiled field data, contributed to EA documents, and has acted as leading field technician on site during environmental studies.

## EDUCATION

- Diploma of Natural Resources and Environmental Technologies, Nova Scotia Community College, Lunenburg, NS (2021)

## TRAINING

- FEC certified – Province of Nova Scotia (2024)
- Wetland Delineation Training – Maritime College of Forest Technology (2022)
- WESP-AC Training - Maritime College of Forest Technology (2022)
- ATV Training, Canada Safety Council (2022)
- First Aid & CPR Level A - St. John's Ambulance (2022)
- Wilderness & Remote First Aid Program, Canadian Red Cross (2020)
- Beginner, Intermediate, Advanced canoe certification – Scouts Canada (2014)

## AREAS OF SPECIALIZATION

- Data Management & Analysis
- Environmental Assessment
- Environmental Reporting
- Task Coordination & Management

## RELEVANT EXPERIENCE

Ms. Nguyen joined the Strum team in 2023 as a Junior Environmental Scientist upon completing her coursework for her Resource and Environmental Management degree at Dalhousie University. While at Dalhousie, Ms. Nguyen engaged in a variety of interdisciplinary areas of natural resource management, including nature-based solutions, socio-ecological studies, and environmental impact assessment. Her diverse professional and academic experiences demonstrate strong adaptability to different fields and a wide breadth of skill sets.

During her graduate studies, Polly focused on improving her strengths in socio-ecological studies while fostering her interests in natural resources management and field-based assessment. She worked as a Knowledge Mobilization Assistant for the Natural Sciences and Engineering Research Council (NSERC) – ResNet organization where she participated in researching and drafting policy briefs on climate sustainability and resiliency within the landscape of the Bay of Fundy dykelands. She engaged in various academic opportunities to build upon her experiences in natural resource management and assessment, such as drafting a policy commentary on the lack of diverse socio-economic factors within the environmental impact assessment and collaborating with multidisciplinary teams to contribute to local issues. As a culmination of her strengths and interests, Polly researched on the interconnected relationship between intersectionality and mental health in influencing environmental participation in the climate movement within Nova Scotia for her final MREM Research Project.

To further build her field-based experiences, Polly worked as a teaching assistant for introductory and advanced environmental science courses, including Field Methods in Environmental Science where Polly led field programs and guided university students with scientific field notes and report writing. Polly also completed an intensive field course during her Master's degree where she conducted forestry composition surveys, CABIN protocols, avian surveys, benthic invertebrates surveys, herpetofauna surveys, nocturnal invertebrates surveys, data analysis, and report writing. Alongside her MREM internship with NSERC ResNet, Polly collaborated with natural sciences scholars on the completion of a decadal review of natural resources and social sciences for the International Association for Society and Natural Resources (IASNR) where she liaised with editors on chapters completion and compiled qualitative data on trends within social and natural resources for the introductory chapter. Through these experiences, Polly has gained experience in adapting her skills to a diverse range of experiences and further improving her skill sets.

Polly is active in conducting environmental assessments, wetland delineations, watercourse assessments, old-growth forest surveys, avian surveys, and other ecological studies. She has experience in utilization of specialized monitoring equipment and data analysis, such as avian acoustic monitor, trail cameras, and ambient noise monitors. She is knowledgeable with provincial and federal regulations and works closely with senior staff and field leads in conducting significant fieldwork and preparing reports.

## EDUCATION

- Master of Resource and Environmental Management (MREM) - Dalhousie University, Halifax, NS (2023)
- Bachelor of Arts, Major in International Relations and Economics – Boston University (2021)

## TRAINING

- UTV Certification – Canada Safety Council (2023)
- Workplace First Aid & CPR/AED – (2023)
- WHMIS (2023)
- Trailer training (2023)
- Bear Awareness (2023)
- Wetland Ecosystem Services Protocol for Atlantic Canada Training (2024)
- Wetland Delineation Training (2024)

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Power Environmental Assessments, NS, 2023-Present – Junior Environmental Scientist:** Conduct field work on several 100 MW+ wind farms in Nova Scotia, including wetland, watercourse, fish and fish habitat, old-growth, avian, avian radar, bat, wildlife, flora, and lichen surveys. Prepared, reviewed, and organized field data using several methods of collection. Inventoried and configured specialized monitoring gears, such as trail cameras and acoustic monitors, and regularly performed maintenance checks. Prepared EA related documents, including methodologies, effects assessments, and desktop reviews.

**Radar and Acoustic Assessment, NS, 2023-Present – Junior Environmental Scientist:** Conduct radar analysis on a specialized program to collect avifauna presence on project sites. Conducted quantitative analysis on processed radar and acoustic data to support technical reports on avifauna presence and remote sensing. Lead report coordination and completion of these technical reports for wind projects and other relevant projects.

**Post-Approval Works, NS, 2023-Present – Junior Environmental Scientist:** Conduct data compilation and reports for various wind farm projects, such as Goose Harbour Lake Wind Farm, Mersey Wind Farm, and Weavers Wind Farm, to fulfill post-approval conditions, such as the creation of Wildlife Management Plans, Contingency Plans, Baseline Noise Monitoring, and Watercourse Alteration applications.

**Environmental Noise Measurement, NS, 2023-Present – Junior Environmental Scientist:** Configure noise monitors with correct data collection settings prior to field deployment. Initiated noise monitoring deployment for various projects, including the Mersey Wind Farm Project and EverWind Point Tupper Green Hydrogen/Ammonia Project, and compiled data for data analysis and completion of noise monitoring plans. Initiated proposals for baseline noise monitoring programs with appropriate field schedules, required equipment, and budget calculations. Complete a standard operating procedure for deployment procedures, data analysis, and report compilation.

**Avian Surveys, NS, 2023-Present – Junior Environmental Scientist:** Conducted diurnal watch counts, breeding bird surveys and nightjar surveys for various wind projects, including Mersey Wind Farm Project and Goose Harbour Lake Wind Farm Project.

**Orbital Marine Tidal Project, NS, 2023 – Junior Environmental Scientist:** Completed desktop reviews and analysis on ambient noise and environmental effects of tidal turbines on marine species within the Minas Passage of the Bay of Fundy. Helped completed a supplemental information report to be sent to relevant regulatory agencies.

**Urban Nature and Infrastructure in the Face of Increasing Storm Events 2022 – MREM Tri-course Project:** Worked on a multi-disciplinary team to address the biophysical, environmental law and policy, and sociopolitical challenges of urban planning and the incorporation of urban nature in the face of increasing severe storms in Nova Scotia. This involved research into the interconnected relationship between urban trees and utility infrastructure, relevant regulatory bodies and policies, and recommendations into establishing nature-based solutions and smart urban forest management within HRM and the province.

## AREAS OF SPECIALIZATION

- Field Program Design and Logistics Coordination
- Environmental Assessment
- Renewable Energy
- Marine near-shore and Water Quality Monitoring
- Avian Studies
- Regulatory and Public Consultation

## RELEVANT EXPERIENCE

Mr. Doane joined the Strum team in 2020 as an Environmental Intern, while working towards his Master of Resource and Environmental Management degree at Dalhousie. While studying at Dalhousie, Angus specialized in natural resource management in Nova Scotia, especially in the coastal zone. Angus obtained his Bachelor of Science degree in 2019 from Mount Allison University, where he specialized in Environmental Chemistry and Microbiology. He completed his honours thesis in organic and inorganic synthesis of maltol-derived thiopyridinone ligands for various environmental and anti-bacterial applications. To complement the lab-based skills associated with research, Angus has experience in field-based collection and preparation of environmental samples from his academic studies. His primary focus with the Environmental Assessments & Approvals team at Strum is project management, where he applies his depth of knowledge in field studies and coordination to guide projects through the regulatory

Angus is active in leading environmental assessments, biophysical component studies, and completing radar and wildlife surveys, and other ecological studies. He has planned and coordinated multi-team fieldwork across large projects throughout Nova Scotia, New Brunswick and Newfoundland. He is knowledgeable in provincial and federal approvals and permitting processes and works closely with all staff to prepare and review reports and regulatory submissions, as well as prepare materials for, and participate in, public and regulator consultation activities for Environmental Assessments. He serves on the Joint Occupational Health and Safety committee as a group and regional representative for Antigonish.

Angus held a previous position with Environment and Climate Change Canada (ECCC) as a water quality technician. He conducted water sampling in many bays, harbours, and estuaries around Nova Scotia from Pubnico to Cape North, dealing with all matters of leading a field crew on a day-to-day basis. This included trailering, launch and recover practices, regular boat, motor, trailer and vehicle maintenance, as well as training and aiding new staff in acclimating to the work. Processing of samples was also completed on a daily basis using the modified A1 method in a level 3 CALA certified microbiology lab.

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Power Environmental Assessments, 2020-Present – Environmental Scientist/Project Manager:** Providing coordination and field work on several 100 MW+ wind farms in Nova Scotia. Coordinated and completed all aspects of field surveys for environmental assessments, including wetland, watercourse, fish & fish habitat, avian, avian radar, bat, wildlife, flora, and lichen surveys. Preparing, reviewing, and organizing field data using several methods of

## EDUCATION

- Master of Resource and Environmental Management (MREM) - Dalhousie University, Halifax, NS (2021)
- Bachelor of Science (Honours in Chemistry) - Mount Allison University, Sackville, NB (2019)

## TRAINING

- Wetland Ecosystem Service Protocol – Atlantic Canada (WESP-AC) – Maritime College of Forest Technology (2021)
- Wetland Delineation Training – Maritime College of Forest Technology (2020)
- Small Vessel Operator Proficiency “SVOP” and Marine Emergency Duties “MED A3” - Survival Systems Training Limited (2017)
- Wilderness First Aid - St. John’s Ambulance (2022)
- Backpack Electrofishing – Canadian Rivers Institute (2021)
- VHF Radio Restricted Operators Certificate – Industry Canada (2017)



collection. Preparing materials for and participating in public consultation meetings, as well as aiding in the preparation of materials for public outreach. Leading regulatory meetings to brief provincial and federal agencies on project activities. Preparing EA related documents, including methodologies, effects assessments, and desktop reviews.

**Melford Atlantic Gateway Terminal Project, NS, 2020-Present – Environmental Scientist:** Completed comprehensive research as partial fulfillment of the wetland compensation requirement for the Melford Terminal's wetland alteration. This included a comprehensive search of potential sites across Antigonish and Guysborough counties based on the precedence of other wetland compensation projects, as well as aiding in the design and implementation of the engineered wetlands to be created. Supported regulatory consultation for watercourse alteration applications and impacts to fish and fish habitat, especially salmonid species.

**Hydroelectric System regulatory upkeep and Monitoring, NS, 2021-Present - Project Coordinator/ Environmental Scientist:** Completed swallow nesting/monitoring surveys during the fall 2021 migration period. Designed, coordinated, and conducted a wetland and wetland fish & fish habitat monitoring program considering wetland fish habitat functions.

**Environmental Management Plan Development for Mining, NS, 2023-Present – Project Manager:** Overseeing the development of Environmental Management Plan documents for an industrial scale export-focused mining operation in the Strait Area. Aiding Junior staff in the development of plan documents and reviewing plans prior to submission to regulators.

**Avian Radar Studies for Wind Development, NL, 2022-2024 – Environmental Scientist –** Aided in the design and construction of avian radar monitoring systems for four season deployment in harsh coastal and inland environments in Newfoundland, including siting and remote monitoring.

**Environmental Assessment EverWind Point Tupper Green Hydrogen/Ammonia Project - Phase 1, NS, 2022 – Environmental Scientist:** Completed field studies and key reporting requirements for the submission of the EA Registration Document for a green ammonia/hydrogen facility located in Cape Breton, NS. This was the first green ammonia/hydrogen facility to be approved in both Nova Scotia and Canada.

**Transmission Line Project, NS, 2020-2022 – Environmental Scientist/Field Coordinator:** Planned, coordinated and completed Wetland and watercourse assessments, wildlife surveys, and rare plant and lichen surveys, along the linear corridor spanning 100 km. These surveys involved preparing desktop and safety tools for field staff, as well as preparing reports respective to each of the surveys.

**Boat Harbor Remediation Project, NS, 2021, Environmental Scientist –** Monitored water quality through seasonal tide cycles, before aiding in the research and installation of mitigations to improve water quality and reduce fish mortalities at the Boat Harbor remediation site.

**Watercourse Alteration Approval and Fish Surveys, NS, 2021 – Environmental Scientist:** Conducted electrofishing / fish salvage for an emergency watercourse alteration along a section of railway. This involved the capture, identification, documentation, and release of fish from the impacted section of the watercourse. Conducted further watercourse assessments to aid in the alteration approval process.

**Canadian Shellfish Sanitation Plan – Shellfish Water Classification Program, NS, 2017-2019 – Water Quality Technician:** Completed three summers of fecal coliform testing of coastal waters around the province of Nova Scotia to aid in the classification of areas for shellfish harvesting. This involved extensive travel, sample collection, processing and overall upkeep of field equipment across a fleet of boats, vehicles, and associated gear. Lab and sample processing work included QA and QC procedures, sample reading, media production, waste management, and sample inoculation.

**Strengths and Weaknesses of Avian Radar for Management and Monitoring Applications, 2020 – MREM Final Research Project:** As a final project for the Master of Resource and Environmental Management program, an extensive research project on the topic of marine radar for avian applications was undertaken. This included literature research across all jurisdictions for information regarding the use of radar of tracking birds, either for monitoring or other applications. On top of the literature research, there was extensive discussion with industry users on the advantages and disadvantages of the technology, data processing techniques, and overall limitations. The findings of this project were paired directly with Radar Assessments undertaken with Strum Consulting.

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## AREAS OF SPECIALIZATION

- Geographic Information Systems (GIS)
- Location, Spatial, and Data Analytics
- Database Management
- Geoprocessing, Model Building
- Civic Addressing

## COMPUTER EXPERIENCE

- GIS Software: ArcGIS Suite, QGIS
- Other Software: CorelDRAW X7
- Scripting: SQL, Python 2 & 3

## RELEVANT EXPERIENCE

Ms. Wallace is a GIS Technician working in the Environmental Assessments and Approvals group. She joined the team in early 2023 and has been helping the GIS team with data analysis and creating mapping products for environmental assessments and other projects.

Ms. Wallace received her Bachelor of Science with Honours in Geology at Saint Mary's University in 2019. While studying at Saint Mary's, Ms. Wallace was a research assistant, and was able to use a variety of tools to aid in the analysis of minerals and in their identification process. Ms. Wallace then went on to receive an Advanced Diploma in Geographic Information Systems at the Centre of Geographic Sciences in 2020.

Before joining Strum, Ms. Wallace worked for the Province of Nova Scotia as part of the Civic Addressing team, where she was able to continue to use GIS and was involved in the emergency management operations during Hurricane Fiona where she analysed data and created a dashboard to help the team with their planning going forward.

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Farm Projects, NS, 2023 - Present - Geomatics Technician:** Compiled and checked collected field data, performed geospatial data analysis, and completed numerous drawings as a visual aid in environmental assessments and other reports.

**Detrital Mineral Provenance Analyses from the Cretaceous McMurray Formation, Alberta and the Holocene Portneuf River Delta, North Shore of Quebec (2021) – Research Assistant:** Used a scanning electron microscope to determine mineral composition and to identify mineral assemblages in different offshore wells in the Scotian Basin. Supplementary graphs were created to aid in demonstrating mineral assemblages and chemical composition.

**Sedimentary Petrology of the Upper Cree Member in the Cohasset A-52 Well, Scotian Basin, Offshore Nova Scotia (2020) – Research Assistant:** Used a scanning electron microscope to determine mineral composition and to identify mineral assemblages in different offshore wells in the Scotian Basin. Supplementary graphs were created to aid in demonstrating mineral assemblages and chemical composition.

**Electron Microprobe and Scanning Electron Microscope Mineral Analyses of Diagenetic Minerals from Lower Cretaceous Reservoir Sandstone, Scotian Basin, Offshore Nova Scotia (2019) – Research Assistant:** Computer software was used to combine all backscattered electron images captured from a scanning electron microscope.

## EDUCATION

- Advanced Diploma in Geographic Information Systems (GIS), Centre of Geographic Sciences (COGS), Lawrencetown, NS (2020) ‘
- Bachelor of Science with Honours, Major in Geology, Saint Mary's University, Halifax, NS (2019)

## TRAINING

- Emergency First Aid CPR Level "C" & AED (2021)
- WHMIS (2023)
- Over 100 hours ESRI Academy Training (2019 – Present)

**Detrital Petrology and Provenance of the Logan Canyon Formation Sandstones, Scotian Basin (2019) –**

**Research Assistant:** Analyzed petrographic information from samples using a scanning electron microscope, where mineral composition was determined using Energy dispersive spectroscopy and identification was helped with backscattered electron images using texture and brightness as a guide. Heavy mineral separation and identification was used to determine mineral assemblages and understand origins.

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## AREAS OF SPECIALIZATION

- Marine Hydrographic Surveys
- Bathymetric Surveys
- Single Beam Sonar Surveys
- Multibeam Sonar Surveys
- Marine Benthic and Water Sampling
- Underwater Video
- Geographic Information Systems (GIS)

## COMPUTER EXPERIENCE

- Operating Systems: Windows, OSX, Linux
- Survey Software: HYPACK
- Seismic Software: SonarWiz, Coda
- GPS Software: Trimble Office, Waypoint GPS Processing, GravNav and GravNet
- GIS Software: ArcGIS, GRASS GIS
- CAD Software: AutoCAD Civil 3D
- Image Processing: Surfer, CARIS HIPS and SIPS
- Misc. Software: Grapher, Microsoft Office, Global Mapper, SonarPro

## EQUIPMENT EXPERIENCE

- GPS Equipment: Assorted Trimble and equipment for autonomous, differential, static, and RTK surveying (Pro XR, 4600, 4800, 5700/5800), Leica RTK, differential static and total stations
- Surveying Equipment: Knudsen BP320 echosounder, SSS Klein 595 and 3000, Teledyne Reson T20P multibeam, Teledyne Reson 7125 multibeam, Odom MB1 and MB2, Integrated Marine Acoustic Profiling System, Magnetometer, and various GPR equipment.
- Misc. Equipment: RBR XR620 CTD Probe and Tide Gauge, Eckman and Van Veen Grab Samplers, Underwater Camera, CNAV 0183 NMEA GPS receivers

## RELEVANT EXPERIENCE

Mr. Savelle is a Marine Surveyor and the GIS Manager with Strum working in our Environmental Assessment & Approvals group. His area of speciality is in Marine Geomatics and conducting bathymetric and topographic surveys. He has extensive experience in surveying marine benthic surfaces and shorelines, obtaining overlapping hydrographic (multibeam, single beam and side scan sonar) data, data collection positioning and navigation, data processing and compilation, plotting and reporting of results. Matt also has experience collecting conventional total station data, RTK and static GPS data, and has been responsible for project set up, establishing GPS control points, and boat mobilization.

## REPRESENTATIVE PROJECTS AND ROLES

**EverWind Fuels Green Hydrogen Project, NS, 2022 - Present - Geomatics Specialist:** Project work includes geospatial analysis, supporting external inquiries, and integrating environmental and socioeconomic factors into the assessments.

**Wind Farm Projects, NS, 2022 - Present - Geomatics Specialist:** Project work includes streamlining field data collection, developing in house habitat modelling, tracking applications, and performing geospatial data analysis.

## EDUCATION

- Centre of Geographic Sciences (COGS), Lawrencetown, Nova Scotia Advanced Diploma in Marine Geomatics (2010)
- Saint Mary's University, Halifax, Nova Scotia Bachelor of Science Degree (BSc) (2009), major in Biology and Minor in Geography

## TRAINING

- Marine Basic First Aid
- St. John Ambulance, Level A CPR
- St. John Ambulance, Canadian East Coast Offshore Fitness Certificate
- Med A1 Offshore Survival Systems,
- WHMIS

**Marine Survey for Offshore Oil & Gas Support Facilities, Sheet Harbour, NS, 2020** – Detailed marine surveys were conducted as part of the planning and permitting process for a marine facility used to support the offshore oil and gas industry. Bathymetric and multibeam sonar surveys were completed to provide a detailed bottom profile and water depths in areas of Sheet Harbour that will be used for large vessel movements. This information will be used to determine proper clearances for vessels and to determine if additional dredging is required. In addition to collecting this survey information, digital video was captured to document the types of marine habitat in the area to support applications for federal approvals.

**Chedabucto Bay Marine Surveys for Aquaculture Facilities, NS, 2020** – As part of the detailed siting of marine aquaculture facilities, bathymetric and single beam sonar surveys were completed to provide a detailed bottom profile and water depths in multiple areas of Chedabucto. In addition to collecting this survey information, digital video was captured along predetermined transects to document marine habitats, and benthic sediment samples were collected with a Van Veen grab for analysis. Marine survey data was processed to generate detailed digital bottom profiles.

**St. Marys Bay Marine Surveys for Aquaculture Facilities, NS, 2019-2020** – As part of the detailed siting of marine aquaculture facilities, bathymetric and single beam sonar surveys were completed to provide a detailed bottom profile and water depths in multiple areas of St. Marys Bay. In addition to collecting this survey information, digital video was captured along predetermined transects to document marine habitats, and benthic sediment samples were collected with a Van Veen grab for analysis. Marine survey data was processed to generate detailed digital bottom profiles.

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## AREAS OF SPECIALIZATION

- Geographic Information Systems (GIS)
- Field Studies
- Avian Radar Analysis
- Wind Turbine Risk Assessment (Shadow Flicker, Noise Modelling & Visual Simulations)

## RELEVANT EXPERIENCE

Mr. Johnson first joined Strum in 2021 as an Environmental Field Technician working in our Environmental Science Group. His area of speciality is in Geographic Information Systems and Remote Sensing. He has extensive experience in data collection in the field, installation of monitoring equipment such as groundwater wells, bird and bat monitoring systems, and working with avian radar datasets and wind turbine analysis software. He is responsible for producing concise and accurate mapping products and incorporating them into the environmental assessment.

More recently, Mr. Johnson has been responsible for the predictive modelling of multiple wind farm projects around the province. This includes the shadow flicker and noise assessment impact on receptors in nearby communities, and photo-simulations visualizing turbines in each study area.

## REPRESENTATIVE PROJECTS AND ROLES

**Wind Farm Projects, NS, 2021-Present – Geomatics Technician:** Responsible for the collection of field data, analysis, and production of accurate GIS mapping products to be used in the reporting process. Avian radar systems were installed and used in various locations of the study area for the purpose of tracking bird activity. Detailed wind turbine risk assessment was conducted for the study area, including noise level and shadow flicker assessments, and photo-simulations visualizing turbines in each potential location.

**Transmission Line Moose Tracking Surveys, NS, 2022 – Geomatics Technician:** Participated in field assessments for winter wildlife, with a focus on mainland moose and other species at risk. This involved walking predetermined transects through various habitats to identify and document evidence of wildlife such as tracks, scat, and browsing. Additionally, responsible for the post-processing of field data and production of accurate GIS mapping products to be used in the reporting process.

**Various Wetland and Watercourse Delineation Projects, NS, 2021 – Present - Geomatics Technician:** Responsible for the post-processing of field data and production of accurate GIS mapping products to be used in the reporting process.

## EDUCATION

- Centre of Geographic Sciences (COGS), Lawrencetown, Nova Scotia Advanced Diploma in Geographic Information Systems (2020)
- Saint Mary's University, Halifax, Nova Scotia Bachelor of Science Degree (BSc) (2017), major in Geography

## TRAINING

- Canadian Drone Pilot Certificate (Basic)
- WHMIS
- ATV Training Course



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## PROFESSIONAL ASSOCIATIONS

- Canadian Institute of Forestry - Forestry Technician

## AREAS OF SPECIALIZATION

- Rare plant surveys
- Wetland and Watercourse Assessment and Delineations
- Wildlife Surveys
- Fish Habitat Assessments
- Environmental Approvals

## RELEVANT EXPERIENCE

Ms. Daffre has been an environmental professional since 2022. She has a background working in environmental sustainability and natural resource management in both local and international settings. She has experience conducting fieldwork such as vegetation surveys, species at risk and invasive species monitoring. Ms. Daffre has strong forest mensuration skills such as timber cruises, biodiversity, biomass and carbon biomass inventories as well as, forest and vegetation classification. Ms. Daffre has authored baseline technical reports for provincial environmental assessments and regulatory applications and has completed watercourse and wetland assessments, including field delineation, habitat assessment, species at risk identification and data management, and mapping and spatial analyses (ArcGIS and QGIS).

## REPRESENTATIVE PROJECTS AND ROLES

### **Biophysical Assessments, Clydesdale Ridge Wind Farm, NS, 2023-Present- Field Technician/ Biologist:**

Completed baseline biophysical assessments including fish habitat and collection surveys, botany surveys wetland and watercourse delineation, and watercourse habitat assessments. Contributed to writing the Environmental Assessment Registration Document for this project.

**Biophysical Assessments, Antrim Gypsum Mine, NS, 2023-Present- Field Technician/ Biologist:** Completed baseline biophysical assessments including fish habitat surveys, wetland and watercourse delineation, and watercourse habitat assessments. Contributed to writing the Environmental Assessment Registration Document for this project.

**Wetland Monitoring Program, Highway Twinning Project, NS, 2023-Present – Field Technician:** Completed wetland monitoring and baseline monitoring for Highway 103 and 104 twinning projects near Barney's River, and Hubbard's Nova Scotia on behalf of Dexter Nova Alliance. Conducted visual observations of wetlands along the study site, soil conditions, vegetation surveys, and collected data from monitoring wells.

**Wood Turtle Habitat suitability study, Department of Defense, NS 2024- Field Technician/Biologist:** Completed desktop suitability exercise using aerial photography and available GIS databases to identify suitable wood turtle habitat at 14 Wing Greenwood in Kings County, Nova Scotia. Conducted field surveys to identify suitable habitat and visual encounter surveys for wood turtles to inform habitat management and future development. Contributed to report writing for this project.

## EDUCATION

- Natural Resource Environmental Technology, Nova Scotia Community College (2022)
- Bachelor of Social Science (International Development and Environmental Studies), University of Ottawa (2017)

## TRAINING

- St. John's Ambulance First Aid & CPR/AED Level C (2023)
- Winter Identification of Trees and Woody Plants, Eagle Hill Institute (2023)
- Electrofishing Certification (2023)
- Wetland Ecosystem Services Protocols Training (2023) – Nova Scotia
- Wilderness First Aid + CPR Level C (2021) – Canadian Red Cross
- Chainsaw Safety Certification (2021) – Safety First Nova Scotia
- ATV/OHV Operator Certification (2021)
- WHIMIS (2021)

**Biophysical Assessments, Six Mile Brook Pit Expansion, NS, 2023-2024- Field Technician/ Biologist:** Completed baseline biophysical assessments including botany surveys, wetland and watercourse delineation, and watercourse habitat assessments. Contributed to writing the Environmental Assessment Registration Document for this project.

## AREAS OF SPECIALIZATION

- Wildlife Surveys
- ArcGIS and QGIS

## RELEVANT EXPERIENCE

Mr. Vail is knowledgeable in survey methods and identification skills necessary in searching for several at-risk species groups, including snakes, bats, and plants. Mr. Vail has been involved with tasks ranging from watercourse and wetland delineation and habitat assessments, snakes, and bat surveys – in addition to being the sole surveyor for Lichens. Mr. Vail is also experienced in office-based tasks including the development of survey protocols, background research, and desktop reviews of species-at-risk organisms and their critical habitats. Cole has found several table two lichen species in project areas, in addition to select table one species. These include, but are not limited to, populations of Blue Felt Lichen and Wrinkled Shingle Lichen, as well as several occurrences of Frosted Glass Whiskers at various projects. Cole has demonstrated expertise as a lichen surveyor, with experience and success searching for every Nova Scotian lichen species with a Special Management Plan (SMP). Mr. Vail also produces figures in ArcGIS and QGIS and has developed and assisted in survey protocols for at-risk species, including background research and survey methods.

## EDUCATION

- Master of Resource and Environmental Management, Dalhousie University, Halifax, NS (2023)
- Bachelor of Science with Major in Biology (Honors) Acadia University, Wolfville, NS (2021)

## TRAINING

- Remote First Aid (2023) – Doyle Adventure and Safety
- Lichen and Bryophyte Identification and Handling (2018) – Eagle Hill Institute

## REPRESENTATIVE PROJECTS AND ROLES

**Long-Term Monitoring, Goldboro Gold Mine Permitting, NS, 2023 – Junior Environmental Scientist:** Played a leadership role as the field lead in a long-term monitoring program for Blue Felt populations surrounding the proposed Gold mine. He conducted background research on monitoring methodology and climate monitoring equipment in addition to leading the monitoring work on-site. This work involved health assessments and population assessments for Blue Felt Lichen populations.

**Biophysical Surveys, Apitamkiejit Wind Project, NS, 2023 – Junior Environmental Scientist:** Conducted a series of surveys for various organism groups, including lichens, bat maternity roosts, and ribbonsnake. In these survey types, Cole found significant populations of each, including dozens of Wrinkled Shingle Lichen occurrences in addition to several other species of conservation concern (SOC), several bat maternity roosts, and two Ribbonsnake observations.

**Wetland/Watercourse Assessments, Antrim Gypsum Mine, NS, 2023 – Junior Environmental Scientist:** While on site performing wetland delineations and watercourse assessments, Cole observed new occurrences of Frosted Glass Whiskers. Cole also assisted in writing the biophysical sections of this Environmental Assessment registration application document, focusing primarily on the lichen and terrestrial section generally.

**Lichen Surveys & Wetland/Watercourse Assessments, Clydesdale Ridge Windfarm, NS, 2023 – Junior Environmental Scientist:** Conducted multiple lichen surveys and wetland delineation & watercourse assessments. During these visits, Cole found several new occurrences of Eastern Waterfan, Frosted Glass Whiskers, Blue Felt Lichen, and several SOC lichens. Cole also played a large role in the delineation of several wetlands and watercourses. Cole wrote both the geophysical and lichen portions of the biophysical section within the resultant environmental assessment registration application document.

**Wetland Delineation/Watercourse Assessment, Upper Afton Wind Project, NS, 2023 – Junior Environmental Scientist:** Performed wetland delineation and watercourse assessments in addition to lichen surveys on the Upper Afton wind project, playing an instrumental leadership role for wetland delineators present during his participation in that survey type. Cole found new occurrences of Eastern Waterfan, Blue Felt Lichen, Frosted Glass Whiskers, and several SOC lichens.

**Various Surveys, Wejipek Wind Project, PEI, 2023-2024 – Junior Environmental Scientist:** Travelled to site several times over the projects duration to perform lichen surveys in addition to pileated woodpecker nest and bat maternity roost surveys. Cole found Tree Flute Lichen (S1), as well as a historical bat maternity roost. Authored both the atmospheric and lichen portions of the biophysical section within the resultant environmental assessment registration application document.

**Lichen Survey, Six Mile Brook Pit Expansion Project, NS, 2023 – Junior Environmental Scientist:** Conducted lichen surveys and assisted with the environmental assessment registration document in writing the lichen and vascular plant sections of the biophysical section.

**Biophysical Surveys, Higgins Mountain Wind Project, NS, 2023 – Junior Environmental Scientist:** Identified one new occurrence of Frosted Glass Whiskers and documents several SOCI lichens. He was also heavily involved in the wetland delineation and watercourse assessments within the project and wrote one biophysical report on the work completed in addition to providing oversight and editing to later sperate biophysical report.

**Various surveys, Wedgeport Wind project, NS, 2023 – Junior Environmental Scientist:** Conducted additional wetland delineation and watercourse assessments in addition to surveying for lichens within the study area, observing new occurrences of Wrinkled Shingle Lichen, Blue Felt Lichen, and Frosted Glass Whiskers, in addition to several SOCI lichens. Authored the biophysical report for this additional work, providing an overview of the results for both survey types.

**Lichen Surveys, Shaw-Middleton Sandpit EA, NS, 2023 – Junior Environmental Scientist:** Conducted lichen surveys on this site and played a large role in writing the terrestrial portion of the biophysical section within the environmental assessment registration document.

**Research and Technical Report Writing, Blue Mountain Birch Cove Ecological Connectivity Report, NS, 2024 – Environmental Scientist:** Performed background research and wrote on the habitat, ecology, and movement of the North American Beaver and the Northern Flying Squirrel, two focal species. Also wrote on the mitigatory options the client could implement to bolster the regional movement of the two focal species between the proposed national urban park and other wilderness areas in the region.

**Biodiversity Assessment, LaHave Coastal Lands Assessment, NS, 2024 – Environmental Scientist:** To support the grant application process of the client to purchase lands for conservation, Cole conducted a biodiversity assessment of the area, focusing on lichens, birds, and bat maternity roosts. Cole found several SOCI lichens, in addition to Frosted Glass Whiskers, Blue Felt Lichen, and Scaly Fringe Lichen. In addition to the field work involved, Cole wrote a biophysical report for the project outlining the wetland connectivity of the area and the species within the larger project area.

**Rhodena Wind Project, NS, 2024 – Environmental Scientist:** Conducted lichen and plant surveys on this project, observing new occurrences of Blue Felt Lichen and Frosted Glass Whiskers.