

## KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

Appendix E 2017 Breeding Bird Survey Protocols and Results

# Appendix E 2017 BREEDING BIRD SURVEY PROTOCOLS AND RESULTS

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#### Introduction

In June of 2017, Stantec conducted breeding surveys over four consecutive days, at 36 point count locations (Figure E1). The surveys consisted of 10-minute, fixed-radius point counts, located near the proposed turbine locations. Nightjar surveys were also completed on June 27, 2017, with a single common nighthawk recorded over five stops. These surveys identified a total of 57 species (including species observed incidentally between surveys and during other terrestrial surveys in June). The surveys identified the presence of four SAR (common nighthawk, eastern wood-pewee, olive-sided flycatcher and Canada warbler) and one SOCC (red crossbill).

#### Methodology

##### *Point Count Surveys*

Breeding bird surveys were conducted from June 20-23, 2017 to provide an overview of forest breeding bird species present near the PDA. Focussing on the turbine locations. . Survey stations were established within 100 m of each of the nine proposed turbine locations. In addition, three survey stations were established in habitat similar to that found at the proposed turbine locations, at distances of 200 m, 400 m, and 700 m from each of the proposed turbine locations. Where possible, survey stations were established a minimum of 200 m from another survey point, and 100 m from the edge of another habitat type. Ten-minute surveys based on a modified fixed-radius (100-m) point count sampling procedure (Bibby *et al.* 2000) were conducted once at each survey point. Survey days began near dawn, and point counts were not conducted past 10:00 am. Observers collected data on each bird species observed, and information about environmental conditions at each survey point, including wind conditions, cloud cover, and temperature.

##### *Nightjar Survey*

Crepuscular bird surveys targeting common nighthawk (*Chordeiles minor*), a SAR, were conducted within the Wind Farm Study Area in June. Survey stations were placed near open areas near proposed turbine locations with potential to provide breeding habitat for common nighthawk. These types of areas can include open forest, grasslands, areas of exposed sand and gravel, recently logged or burned forest, and other anthropogenic habitats such as pastures. Surveys were conducted at roadside, following a point count procedure (BC RIC 1998). Any common nighthawks present were recorded, along with general information about environmental conditions at the time of survey including temperature, wind conditions, and the anecdotal level of background noise.

Nightjar surveys were conducted at five locations near proposed turbines (Figure E1) on June 27, 2017 between 21:27 and 23:37, during a waxing crescent moon (right 1-49% visible in afternoon and post-dusk).

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Incidental observations of species, including birds were made during the course of other terrestrial field surveys in the Project Development Area (PDA) and Wind Farm Study Area (WFSA), including during vegetation and wetland surveys.

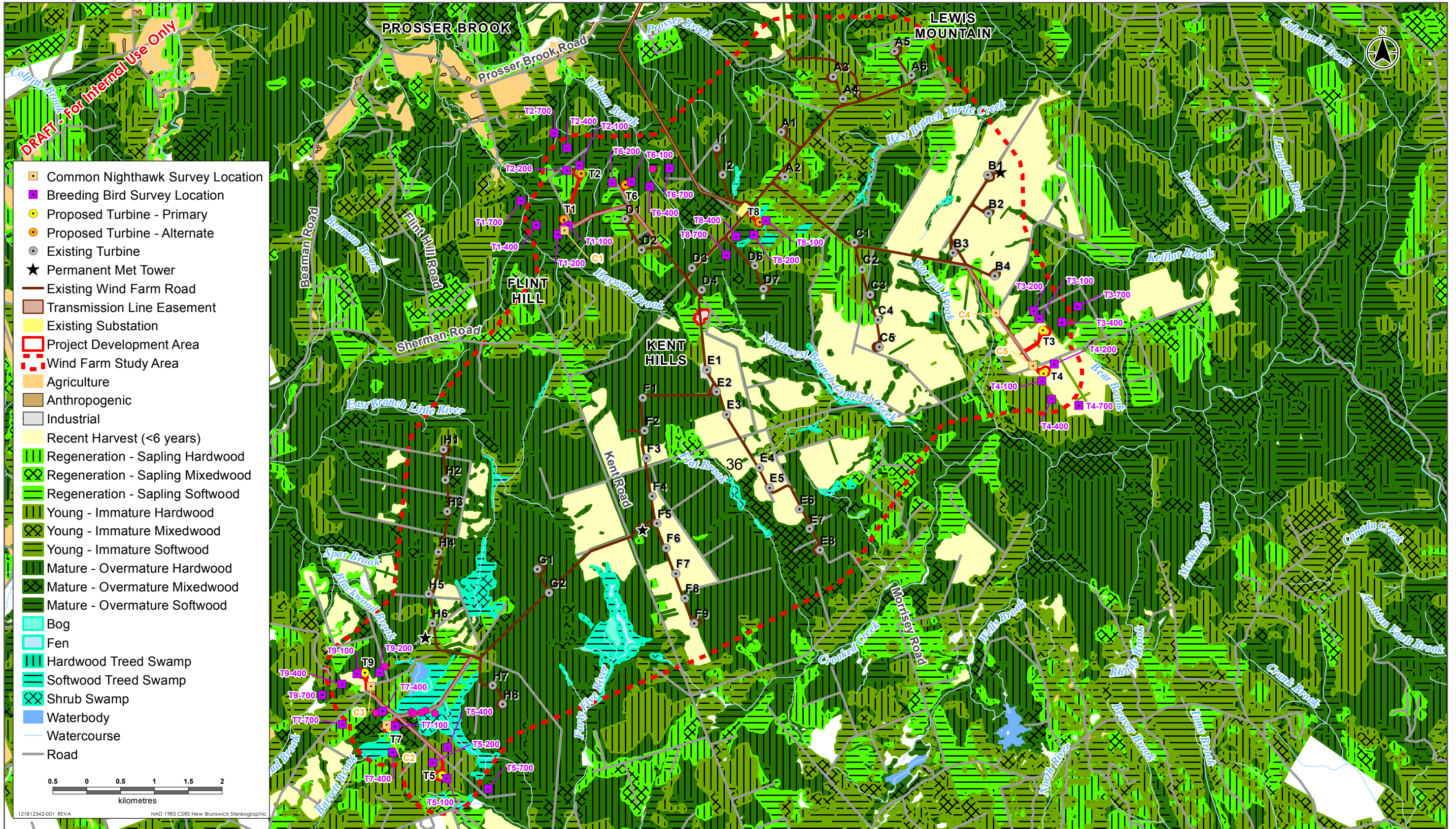
#### Results

Fifty-seven species were identified during the breeding bird monitoring (including species observed incidentally during June). Table E.1 in presents the species observed during the point count surveys, and their highest breeding evidence (available as collected in the field). A nightjar survey was also completed on June 27, 2017, with a single common nighthawk recorded over five stops. Table E2 provides details on the five nightjar surveys. Table E3 provides information on incidental bird observations not associated with the point count surveys.

#### References

- BC RIC (British Columbia Resources Inventory Committee). 1998. *Inventory Methods for Nighthawk and Poorwill*. Standards for Components of British Columbia's Biodiversity No. 9. Version 2.0. Vancouver, BC. Available online at: <https://www.for.gov.bc.ca/hts/risc/pubs/tebiodiv/poorw/assets/poorw.pdf>. Last accessed: August 24, 2017.
- Bibby, C.J., N.D. Burgess, D.A. Hill, and S.H. Mustoe. 2000. *Bird Census Techniques*. 2<sup>nd</sup> Edition. Academic Press. 302 pp.





Sources: Government of New Brunswick

Service Layer Credits:

Breeding Bird Survey Locations



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**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	Yes	No	Yes	No	No	Possible	2	246
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American robin	Male	Adult	1	No	Yes	No	Yes	No	Possible	111	304
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	35	54
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	71	73
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	cedar waxwing	Unknown	Adult	2	Yes	No	Yes	Yes	No	Possible	50	171
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	eastern wood-pewee	Male	Adult	1	No	Yes	No	Yes	No	Possible	107	232
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	least flycatcher	Unknown	Adult	1	No	Yes	No	No	No	Possible	81	201
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	43	319
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	56	260
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	77	25
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Unknown	Adult	1	No	No	Yes	No	No	Possible	19	140
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Unknown	Adult	1	No	No	Yes	No	No	Possible	23	177
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	78	115
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	Yes	No	Yes	No	No	Possible	8	306



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Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American robin	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	108	305
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	32	61
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	eastern wood-pewee	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	113	232
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	least flycatcher	Unknown	Adult	1	No	Yes	No	No	Yes	Possible	61	215
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	mourning warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	42	332
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	56	258
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	78	25
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	118	40
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Unknown	Adult	1	No	No	Yes	No	Yes	Possible	19	175
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Unknown	Adult	1	No	No	Yes	No	Yes	Possible	22	138
T1 - 100	45.8173	-64.9232	350596	5075550	6/23/2017	8:48	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	74	117
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	bay-breasted warbler	Male	Adult	1	No	Yes	No	No	No	Possible	72	6
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-capped chickadee	Male	Adult	1	No	Yes	No	No	No	Possible	56	136
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue jay	Unknown	Adult	1	No	No	Yes	Yes	No	Possible	118	9



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T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	cedar waxwing	Unknown	Adult	1	No	No	Yes	No	No	Possible	88	59
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	66	278
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	70	196
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	eastern wood-pewee	Unknown	Adult	1	No	Yes	No	Yes	No	Possible	116	38
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	75	235
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	purple finch	Male	Adult	1	No	Yes	No	No	No	Possible	85	315
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	54	36
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American goldfinch	Male	Adult	1	Yes	No	Yes	Yes	No	Possible	26	230
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	50	110
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	70	284
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	eastern wood-pewee	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	118	37
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	hermit thrush	Male	Adult	1	No	Yes	No	No	No	Possible	86	171
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	least flycatcher	Unknown	Adult	1	No	Yes	No	No	No	Possible	27	21
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	79	237

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Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)	
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	65	22	
T1 - 200	45.8162	-64.9251	350445	5075431	6/23/2017	9:10	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Swainson's thrush	Unknown	Adult	1	No	No	Yes	No	No	No	Possible	58	86
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	Blackburnian warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	80	202
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	77	22
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	46	20
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	75	268
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	brown creeper	Unknown	Adult	1	No	No	Yes	No	No	No	Possible	63	317
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	54	37
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	No	Possible	85	162
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	No	Possible	95	34
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	No	Possible	36	159
T1 - 400	45.8175	-64.9292	350127	5075580	6/23/2017	9:09	14	Light air - 1 to 5 km/h	0	None	Quiet	DM	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	54	149
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	0:00	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	61	1
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	50	287
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	northern parula	Male	Adult	1	No	Yes	No	No	No	No	Possible	54	58

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Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	86	88
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	49	200
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	winter wren	Male	Adult	1	No	Yes	No	No	No	Possible	68	140
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	81	152
T1 - 700	45.8209	-64.9320	349916	5075959	6/23/2017	9:39	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	39	354
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	68	247
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American robin	Male	Adult	1	No	Yes	No	Yes	No	Possible	129	146
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-capped chickadee	Male	Adult	1	No	Yes	No	No	No	Possible	82	328
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	85	77
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue jay	Unknown	Adult	1	No	No	Yes	No	No	Possible	85	183
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	54	126
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	northern parula	Male	Adult	1	No	Yes	No	Yes	No	Possible	117	341
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	38	288
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	92	19

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	132	51
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	236
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	yellow-bellied sapsucker	Male	Adult	1	No	No	Yes	No	No	Possible	47	40
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	69	241
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American robin	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	132	146
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-capped chickadee	Male	Adult	1	No	Yes	No	No	Yes	Possible	78	324
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	59	136
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	northern parula	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	114	340
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	42	285
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	75	14
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	125	48
T2 - 100	45.8253	-64.9207	350806	5076436	6/23/2017	7:32	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	yellow-bellied sapsucker	Unknown	Adult	1	No	No	Yes	No	No	Possible	24	38
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	66	108
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	92	17

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American robin	Male	Adult	1	No	Yes	No	Yes	No	Possible	130	321
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-capped chickadee	Male	Adult	1	No	Yes	No	Yes	No	Possible	145	36
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	49	72
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	100	224
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	hermit thrush	Unknown	Adult	1	No	No	Yes	No	No	Possible	68	185
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	39	311
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	62	261
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	55	2
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	71	109
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	82	16
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American robin	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	131	323
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-capped chickadee	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	143	36
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	63	69
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	Yes	Yes	No	No	No	Possible	13	55

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	94	222
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	37	307
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	62	263
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	purple finch	Male	Adult	1	No	Yes	No	Yes	No	Possible	95	152
T2 - 200	45.8246	-64.9232	350616	5076363	6/23/2017	7:49	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	52	1
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	American robin	Male	Adult	1	No	Yes	No	No	No	Possible	98	247
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	55	47
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	downy woodpecker	Male	Adult	1	No	Yes	No	No	No	Possible	71	94
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	88	203
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	75	252
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	82	307
T2 - 400	45.8277	-64.9230	350633	5076699	6/23/2017	7:34	14	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	74	169
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	51	92
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	73	40



**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E - 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	128	52
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	29	5
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	76	207
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	91	73
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	46	359
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	yellow-bellied flycatcher	Male	Adult	1	No	Yes	No	No	No	Possible	24	94
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	brown creeper	Male	Adult	1	No	Yes	No	No	No	Possible	49	137
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	55	269
T2 - 700	45.8296	-64.9252	350472	5076915	6/23/2017	7:55	15	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	yellow-bellied sapsucker	Male	Adult	1	No	Yes	No	No	No	Possible	89	87
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	72	98
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	Yes	No	Possible	115	346
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	blue jay	Unknown	Adult	1	No	No	Yes	No	No	Possible	89	262
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	90	231
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	hairy woodpecker	Male	Adult	1	Yes	No	Yes	No	No	Possible	51	187

**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	87	329
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	117	6
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	white-throated sparrow	Male	Adult	1	No	No	Yes	Yes	No	Possible	117	32
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	140	229
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	71	86
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	101	344
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	77	144
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	77	54
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	blue jay	Unknown	Adult	1	No	No	Yes	No	Yes	Possible	87	258
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	86	21
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	Yes	Possible	93	227
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	81	329
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	117	7
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	rose-breasted grosbeak	Male	Adult	1	No	Yes	No	No	No	Possible	26	246

**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	Swainson's thrush	Unknown	Adult	1	Yes	No	No	No	No	Possible	12	341
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	121	38
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	139	226
T3 - 100 (180)	45.8037	-64.8340	357489	5073875	6/21/2017	7:44	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	winter wren	Male	Adult	1	No	Yes	No	Yes	No	Possible	122	209
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	54	113
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	54	319
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	black-and-white warbler	Male	Adult	1	No	Yes	No	No	No	Possible	70	356
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	black-and-white warbler	Male	Adult	1	No	Yes	No	No	No	Possible	96	105
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	54	169
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	95	83
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	89	24
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	88	51
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	42	230
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	88	288

**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	113	71	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	yellow-bellied sapsucker	Female	Adult	1	Yes	No	No	No	No	No	Possible	27	302
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	52	115	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	60	313	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-and-white warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	58	345	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-and-white warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	93	112	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	58	174	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	94	85	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	85	20	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	63	231	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	82	283	
T3 - 200 (320)	45.8048	-64.8350	357410	5073993	6/21/2017	7:28	15	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	yellow-bellied sapsucker	Female	Adult	1	Yes	No	No	No	No	Possible	10	321	
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	50	30	
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	100	70	

KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	common nighthawk	Male	Adult	1	No	No	Yes	Yes	No	Possible	30	330
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	150	345
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	75	320
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	160
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	250
T3 - 400	45.8032	-64.8296	357827	5073805	6/21/2017	7:45	16	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	10
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	40	360
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	180
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	75	30
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	10	360
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	100	315
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	270
T3 - 700	45.8052	-64.8266	358070	5074031	6/21/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	75	300
T3 - 700	45.8052	-64.8266	358070	5074031	6/22/2017	7:19	15	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated blue warbler	Male	Adult	1	Yes	No	No	Yes	No	Possible	50	350

**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)	
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	American crow	Unknown	Adult	1	No	No	No	Yes	No	Possible	9	76	
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	33	160
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	Yes	No	No	Possible	119	301
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	76	215
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	No	Possible	66	339
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	Yes	No	No	Possible	133	227
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	50	245
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	77	44
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	No	Possible	89	281
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	No	Possible	77	138
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	No	No	Possible	63	92
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	No	Possible	13	31
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	No	Possible	40	153
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	No	Possible	57	217



KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	blue-headed vireo	Female	Adult	1	Yes	No	No	Yes	No	Possible	13	343
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	22	330
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	41	284
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	Yes	Possible	61	339
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	128	228
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	70	107
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	76	284
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	80	142
T4 - 100	45.7955	-64.8338	357486	5072959	6/21/2017	6:14	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	Yes	Possible	66	87
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	93	260
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	54	284
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	73	17
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	92	158
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	northern flicker	Unknown	Adult	1	No	No	Yes	Yes	No	Possible	135	43

KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	81	199
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	85	326
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	118	341
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	129	234
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	84	257
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	Yes	Possible	61	283
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	50	60
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	mourning warbler	Female	Adult	1	Yes	No	Yes	No	No	Possible	23	215
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	mourning warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	75	20
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	mourning warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	88	158
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	northern flicker	Unknown	Adult	1	No	No	Yes	Yes	No	Possible	29	308
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	northern flicker	Unknown	Adult	1	No	No	Yes	Yes	Yes	Possible	133	42
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	84	205
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	84	325

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T4 - 200	45.7977	-64.8313	357683	5073196	6/21/2017	6:36	14	Gentle Breeze - 12 to 19 km/h	10	None	Quiet	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	118	343
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-and-white warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	310
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated blue warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	20
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	200	270
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	75	120
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	50	70
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	75	240
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	170
T4 - 400	45.7930	-64.8320	357618	5072677	6/21/2017	6:15	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	Yes	No	No	Yes	No	Possible	10	0
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	American robin	Male	Adult	1	No	Yes	No	No	No	Possible	100	270
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	blue jay	Male	Adult	1	Yes	No	No	Yes	No	Possible		
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	75	20
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	150	270
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	100	90

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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	100	350
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	180
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	50	90
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	25
T4 - 700	45.7921	-64.8268	358020	5072571	6/21/2017	6:40	14	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hermit thrush	Male	Adult	1	Yes	No	No	Yes	No	Possible	30	120
T5 - 100	45.7442	-64.9482	348451	5067476	6/20/2017	4:45	14	Moderate Breeze - 20 to 28 km/h	25	None	Moderate Noise (constant, not overwhelming)	DM	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	53	302
T5 - 100	45.7442	-64.9482	348451	5067476	6/20/2017	4:45	14	Moderate Breeze - 20 to 28 km/h	25	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	36	270
T5 - 100	45.7442	-64.9482	348451	5067476	6/20/2017	4:45	14	Moderate Breeze - 20 to 28 km/h	25	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	73	51
T5 - 100	45.7442	-64.9482	348451	5067476	6/20/2017	4:45	14	Moderate Breeze - 20 to 28 km/h	25	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	93	347
T5 - 100	45.7442	-64.9482	348451	5067476	6/20/2017	4:45	14	Moderate Breeze - 20 to 28 km/h	25	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	71	93
T5 - 200	45.7462	-64.9507	348266	5067696	6/20/2017	5:15	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	DM	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	48	39
T5 - 200	45.7462	-64.9507	348266	5067696	6/20/2017	5:15	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	55	73
T5 - 200	45.7462	-64.9507	348266	5067696	6/20/2017	5:15	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	33	247
T5 - 200	45.7462	-64.9507	348266	5067696	6/20/2017	5:15	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	DM	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	No	Possible	49	3

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T5 - 200	45.7462	-64.9507	348266	5067696	6/20/2017	5:15	14	Gentle Breeze - 12 to 19 km/h	5	None	Quiet	DM	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	67	280
T5 - 400	45.7483	-64.9480	348482	5067929	6/22/2017	6:50	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	85	341
T5 - 400	45.7483	-64.9480	348482	5067929	6/22/2017	6:50	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	80	113
T5 - 400	45.7483	-64.9480	348482	5067929	6/22/2017	6:50	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	47	56
T5 - 400	45.7483	-64.9480	348482	5067929	6/22/2017	6:50	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	83	342
T5 - 400	45.7483	-64.9480	348482	5067929	6/22/2017	6:50	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	77	120
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	51	91
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	315
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	66	302
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	86	73
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	71	238
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	120	49
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	123	7
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	136	138

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	49	131
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	79	315
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	88	68
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	69	236
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	119	9
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	126	46
T5 - 700	45.7427	-64.9404	349055	5067294	6/22/2017	6:23	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	138	139
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	90
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	100	180
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	150	320
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hairy woodpecker	Male	Adult	1	No	No	Yes	No	No	Possible	75	345
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	least flycatcher	Male	Adult	1	No	Yes	No	No	No	Possible	75	250
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	150	90
T6 - 100	45.8230	-64.9109	351563	5076154	6/21/2017	9:37	20	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	100	290



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Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-capped chickadee	Male	Adult	1	No	Yes	No	No	No	Possible	28	237
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	73	168
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	31	273
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	58	80
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	64	225
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	hairy woodpecker	Unknown	Adult	1	No	No	Yes	Yes	No	Possible	123	18
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	52	125
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	68	271
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	123	323
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	purple finch	Male	Adult	1	No	Yes	No	No	No	Possible	66	341
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	red crossbill	Male & Female	Adult	5	Yes	No	Yes	Yes	No	Possible	3	266
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	119	308
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	No	Possible	73	299
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	yellow-rumped warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	44

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	70	172
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	Yes	Possible	41	211
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	Yes	Possible	59	84
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	57	129
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	70	269
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	86	22
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	131	327
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	purple finch	Male	Adult	1	No	Yes	No	No	Yes	Possible	73	333
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	118	307
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	Yes	Possible	79	298
T6 - 200	45.8229	-64.9146	351277	5076151	6/21/2017	9:40	16	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	yellow-rumped warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	47	43
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	American robin	Unknown	Adult	1	No	No	Yes	No	No	Possible	14	285
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	black-and-white warbler	Male	Adult	1	No	Yes	No	No	No	Possible	51	310
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	75	180
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	61	100

**KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	brown creeper	Male	Adult	1	No	Yes	No	No	No	Possible	35	163
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	51	246
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	Second Five	American robin	Unknown	Adult	1	No	No	Yes	No	No	Possible	94	30
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	Second Five	black-capped chickadee	Unknown	Adult	1	No	No	Yes	No	No	Possible	51	73
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	81	217
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	90	264
T6 - 400	45.8223	-64.9075	351826	5076071	6/23/2017	6:24	7	Calm - < 1 km/h	0	None	Quiet	DM	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	No	Possible	77	67
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	78	256
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American robin	Male	Adult	1	No	Yes	No	No	No	Possible	98	18
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Blackburnian warbler	Male	Adult	1	No	Yes	No	No	No	Possible	66	63
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	71	154
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	96	118
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	71	40
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	121	338
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	124	150
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	79	312

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	No	Possible	57	219
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	76	267
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American robin	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	119	23
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	67	162
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	39	267
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	northern parula	Male	Adult	1	No	Yes	No	No	No	Possible	20	139
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	75	40
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	122	337
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	125	152
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	73	314
T6 - 700	45.8247	-64.9036	352133	5076330	6/23/2017	6:14	11	Light air - 1 to 5 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	No	Yes	Possible	57	219
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	alder flycatcher	Male	Adult	1	No	Yes	No	Yes	No	Possible	134	308
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-capped chickadee	Unknown	Adult	1	No	No	Yes	No	No	Possible	44	332
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	66	359

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	58	48
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	51	90
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	98	298
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	Yes	No	Possible	134	336
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	41	14
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	song sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	98	182
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	First Five	white-throated sparrow	Male	Adult	1	Yes	Yes	No	No	No	Possible	23	334
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	American kestrel	Unknown	Adult	1	Yes	No	No	Yes	No	Probable	101	262
T7 - 100	45.7513	-64.9578	347727	5068279	6/22/2017	7:42	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	DM	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	63	209
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	alder flycatcher	Unknown	Adult	1	No	Yes	No	No	No	Possible	100	105
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	46	255
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	64	13
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	126
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	64	176

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	83	303
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	No	Yes	Yes	No	Possible	117	127
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	117	197
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male		1	No	Yes	No	Yes	No	Possible	125	163
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	alder flycatcher	Male	Adult	1	No	Yes	No	No	Yes	Possible	88	107
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	45	255
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	64	358
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	common nighthawk	Male	Adult	1	No	No	Yes	No	No	Possible	36	278
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	30	106
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	mourning warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	70	206
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	83	303
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	123	130
T7 - 200	45.7533	-64.9602	347545	5068507	6/22/2017	7:52	15	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	130	163
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	alder flycatcher	Male	Adult	1	No	Yes	No	No	No	Possible	96	328



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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	54	194
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	72	72
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	47	288
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	97	181
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	79	248
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	62	51
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	127	324
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	winter wren	Male	Adult	1	No	Yes	No	No	No	Possible	50	258
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	American robin	Male	Adult	1	No	Yes	No	No	No	Possible	95	302
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	61	317
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	song sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	62	11
T7 - 400	45.7478	-64.9584	347668	5067895	6/22/2017	8:08	15	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	130	303
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	alder flycatcher	Unknown	Adult	1	No	No	No	No	No	Possible	69	80
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American robin	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	37

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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-and-white warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	142	330
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	120	337
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	chipping sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	53	271
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	28	219
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Lincoln's sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	28	19
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	113	233
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	115	15
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	120	311
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Nashville warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	113	347
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	song sparrow	Male	Adult	1	No	Yes	No	No	No	Confirmed	74	37
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Unknown	Adult	1	Yes	No	Yes	No	No	Possible	14	114
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	61	346
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	68	130
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	92	199

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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	yellow-rumped warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	126	24
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	alder flycatcher	Unknown	Adult	1	No	Yes	No	No	Yes	Possible	62	80
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-and-white warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	139	329
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	123	340
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	121	47
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	chipping sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	47	270
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	Yes	Possible	31	217
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	43	50
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	dark-eyed junco	Unknown	Adult	1	No	No	Yes	No	No	Possible	64	4
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Lincoln's sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	27	26
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	111	3
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Nashville warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	114	348
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	swamp sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	106	331
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Unknown	Adult	1	Yes	No	Yes	No	Yes	Possible	18	109

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Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	62	343
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	73	135
T7 - 700	45.7517	-64.9679	346941	5068342	6/22/2017	7:31	15	Moderate Breeze - 20 to 28 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	90	204
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	50	55
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	30	90
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	100	275
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	50	30
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	25	30
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	Nashville warbler	Male	Adult	1	No	Yes	No	No	No	Possible	75	75
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	100	270
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	150	120
T8 - 100	45.8175	-64.8855	353525	5075499	6/21/2017	8:52	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	yellow-rumped warbler	Male	Adult	1	No	Yes	No	No	No	Possible	100	220
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	alder flycatcher	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	180
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	100

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Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	75	350
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	100	90
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	170
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	hermit thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	125	350
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	purple finch	Male	Adult	1	No	Yes	No	No	No	Possible	40	60
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	ruby-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	50	90
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	75	360
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	100	310
T8 - 200	45.8156	-64.8879	353331	5075293	6/21/2017	8:31	18	Light Breeze - 6 to 11 km/h	0	None	Light Noise (temporary, not distracting)	DM	na	Nashville warbler	Male	Adult	1	Yes	No	No	Yes	No	Possible	75	250
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-capped chickadee	Unknown	Adult	1	No	No	Yes	No	No	Possible	37	30
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	62	221
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	123	142
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	111	345
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	No	Possible	80	166

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	66	84
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	57	310
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	swamp sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	112	68
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	71	231
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	123	142
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	dark-eyed junco	Unknown	Adult	1	Yes	No	Yes	No	No	Possible	26	295
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	dark-eyed junco	Male	Adult	1	No	Yes	No	No	Yes	Possible	83	167
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	Yes	Possible	65	83
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	58	309
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	136	325
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	swamp sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	111	68
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	132	310
T8 - 400	45.8155	-64.8912	353071	5075287	6/21/2017	8:30	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	yellow-rumped warbler	Male	Adult	1	No	Yes	No	No	No	Possible	38	136
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	85	94

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Appendix E - 2017 Breeding Bird Survey Protocols and Results

**Table E.1 Breeding Bird Point Count Data Collected in 2017**

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-and-white warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	135	49
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	Blackburnian warbler	Male	Adult	1	No	Yes	No	No	No	Possible	32	293
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	40	202
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	No	Possible	87	18
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	golden-crowned kinglet	Male	Adult	1	No	Yes	No	No	No	Possible	67	74
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	No	Possible	85	284
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	northern parula	Male	Adult	1	No	Yes	No	No	No	Possible	58	332
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	63	55
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	81	127
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	122	8
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	84	95
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	black-and-white warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	130	46
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	Blackburnian warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	43	292
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	211



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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	93	239
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	chestnut-sided warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	86	19
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	common yellowthroat	Male	Adult	1	No	Yes	No	No	No	Possible	91	214
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	magnolia warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	87	285
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	northern parula	Male	Adult	1	No	Yes	No	No	Yes	Possible	49	336
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	northern parula	Male	Adult	1	No	Yes	No	No	Yes	Possible	79	328
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	64	54
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	81	130
T8 - 700	45.8130	-64.8932	352915	5075012	6/21/2017	8:56	15	Light Breeze - 6 to 11 km/h	10	None	Quiet	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	124	9
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	118	354
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	Yes	No	Possible	128	21
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	cedar waxwing	Unknown	Adult	2	Yes	No	No	Yes	No	Possible	33	2
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	No	Possible	118	306
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	No	Possible	63	311

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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	winter wren	Male	Adult	1	No	Yes	No	No	No	Possible	53	91
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	119	353
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	126	22
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	mourning warbler	Male	Adult	1	No	Yes	No	No	No	Possible	98	36
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	120	56
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	Swainson's thrush	Male	Adult	1	No	Yes	No	Yes	Yes	Possible	115	306
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	No	Yes	Possible	66	309
T9 - 100	45.7583	-64.9649	347193	5069076	6/22/2017	9:18	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	winter wren	Male	Adult	1	No	Yes	No	No	Yes	Possible	48	89
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	American redstart	Male	Adult	1	No	Yes	No	No	No	Possible	68	114
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	68	318
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	76	210
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	97	175
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	23	290
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	56	87

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Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	77	16
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	91	246
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	American redstart	Male	Adult	1	No	Yes	No	No	Yes	Possible	71	115
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	66	321
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	44	32
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	Yes	Possible	72	208
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	blue-headed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	93	175
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	eastern wood-pewee	Unknown	Adult	1	No	Yes	No	Yes	No	Possible	119	45
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	No	Yes	Possible	29	326
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	134	325
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-breasted nuthatch	Unknown	Adult	1	No	No	Yes	No	No	Possible	92	340
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	55	84
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	77	19
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	Yes	Possible	89	246

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Appendix E 2017 Breeding Bird Survey Protocols and Results

Table E.1 Breeding Bird Point Count Data Collected in 2017

Point Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey Date	Survey Time	Temp. (°C)	Wind	Cloud Cover (%)	Rain	Noise	Surveyor	Survey Time Interval	Common Name	Sex	Age	Count	Seen	Singing	Calling	Incidental	Duplicate Observation	Recorded Breeding Status	Distance to observation (m)	Bearing to observation (degrees)
T9 - 200	45.7585	-64.9606	347529	5069082	6/22/2017	8:55	13	Gentle Breeze - 12 to 19 km/h	20	None	Light Noise (temporary, not distracting)	HB	Second Five	white-throated sparrow	Male	Adult	1	No	Yes	No	Yes	No	Possible	130	306
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	100	287
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	Yes	No	Possible	101	185
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	27	139
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	51	66
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	black-throated blue warbler	Male	Adult	1	No	Yes	No	No	No	Possible	65	253
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	black-throated green warbler	Male	Adult	1	No	Yes	No	Yes	No	Possible	98	221
T9 - 400	45.7570	-64.9678	346964	5068935	6/22/2017	9:02	14	Moderate Breeze - 20 to 28 km/h	0	None	Moderate Noise (constant, not overwhelming)	DM	Second Five	blue-winged warbler	Male	Adult	1	No	Yes	No	No	No	Possible	50	120
T9 - 700	45.7557	-64.9716	346665	5068790	6/22/2017	9:26	14	Gentle Breeze - 12 to 19 km/h	0	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	46	1
T9 - 700	45.7557	-64.9716	346665	5068790	6/22/2017	9:26	14	Gentle Breeze - 12 to 19 km/h	0	None	Light Noise (temporary, not distracting)	DM	First Five	black-throated green warbler	Male	Adult	1	No	Yes	No	No	No	Possible	73	85
T9 - 700	45.7557	-64.9716	346665	5068790	6/22/2017	9:26	14	Gentle Breeze - 12 to 19 km/h	0	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	37	93
T9 - 700	45.7557	-64.9716	346665	5068790	6/22/2017	9:26	14	Gentle Breeze - 12 to 19 km/h	0	None	Light Noise (temporary, not distracting)	DM	First Five	ovenbird	Male	Adult	1	No	Yes	No	No	No	Possible	83	228
T9 - 700	45.7557	-64.9716	346665	5068790	6/22/2017	9:26	14	Gentle Breeze - 12 to 19 km/h	0	None	Light Noise (temporary, not distracting)	DM	First Five	red-eyed vireo	Male	Adult	1	No	Yes	No	No	No	Possible	26	146

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#### Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E2 Nightjar Survey Information**

Survey Location	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)	Survey time	Wind	Temp. (°C)	Cloud Cover (%)	Noise	Species Detected
C1	45.8167	-64.9238	350541	5075481	21:27	Gentle Breeze - 12 to 19 km/h	12	25	Light Noise (temporary, not distracting)	none
C2	45.7515	-64.9594	347600	5068305	22:12	Gentle Breeze - 12 to 19 km/h	15	20	Quiet	common nighthawk
C3	45.7567	-64.9623	347390	5068883	22:29	Light air - 1 to 5 km/h	14	15	Quiet	barred owl
C4	45.8046	-64.8422	356851	5073986	23:08	Light Breeze - 6 to 11 km/h	16	10	Light Noise (temporary, not distracting)	none
C5	45.7975	-64.8354	357367	5073186	23:24	Gentle Breeze - 12 to 19 km/h	16	10	Light Noise (temporary, not distracting)	none

### KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3

#### Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E3 Incidental Bird Observations**

Date and Time	Common Name	Latin Name	Breeding information	Habitat	Count	Latitude	Longitude	Easting (NAD83 UTM Z20)	Northing (NAD83 UTM Z20)
6/19/2017 16:09	ruffed grouse	Bonasa umbellus	Distraction display	Mature Mixedwood	1	45.819	-64.9233	350587	5075739
6/20/2017 9:06	sharp-shinned hawk	Accipiter striatus	Pair in suitable habitat	Immature Softwood	2	45.8048	-64.8982	352502	5074113
6/21/2017 7:02	Black-and-white Warbler	Mniotilta varia	Singing	N/A	1	45.794839	-64.836405	357279	5072893
6/21/2017 12:17	winter wren	Troglodytes troglodytes	Singing male present	Clear-cut	1	45.7572	-64.962	347414	5068939
6/21/2017 12:24	Swainson's thrush	Catharus ustulatus	No indication Breeding	Mature Hardwood	1	45.7587	-64.9639	347272	5069111
6/22/2017 8:19	American Kestrel	Falco sparverius	Flying - Hovering	N/A	1	45.751563	-64.959353	347606	5068312
6/22/2017 9:07	Northern Parula	Setophaga americana	Singing	N/A	1	45.758518	-64.960535	347533	5069087
6/22/2017 9:07	Yellow-bellied Sapsucker	Sphyrapicus varius	Calling	N/A	1	45.758518	-64.960535	347533	5069087
6/22/2017 9:10	American Robin	Turdus migratorius	observed	N/A	3	45.758761	-64.959527	347612	5069112
6/22/2017 11:01	Canada warbler	Wilsonia canadensis	Singing male present	Tall shrub Thicket	1	45.7532	-64.9546	347977	5068485
6/22/2017 11:29	olive-sided flycatcher	Contopus cooperi	Singing male present	Tall shrub Thicket	1	45.7533	-64.952	348179	5068494
6/23/2017 6:26	Yellow-bellied Sapsucker	Sphyrapicus varius	Calling	N/A	1	45.824674	-64.903636	352133	5076330
6/23/2017 6:29	Canada Warbler	Cardellina canadensis	Singing	N/A	1	45.82257	-64.905637	351972	5076100
6/23/2017 7:13	Great Horned Owl	Bubo virginianus	Flying - Traveling	N/A	1	45.82482	-64.924432	350518	5076385
6/23/2017 8:38	Cedar Waxwing	Bombycilla cedrorum	Carrying food	N/A	2	45.816641	-64.923739	350550	5075475
6/23/2017 8:38	Downy Woodpecker	Picoides pubescens	Carrying food	N/A	1	45.816641	-64.923739	350550	5075475
6/23/2017 8:38	Least Flycatcher	Empidonax minimus	observed	N/A	1	45.816641	-64.923739	350550	5075475
6/23/2017 8:38	Eastern Wood-Pewee	Contopus virens	Singing	N/A	1	45.816641	-64.923739	350550	5075475
6/23/2017 9:01	Brown Creeper	Certhia americana	Singing	N/A	1	45.817353	-64.923197	350594	5075553
6/28/2017 9:08	common raven	Corvus corax	Pair in suitable habitat	Mature Mixedwood	2	45.7526	-64.9573	347772	5068420
6/28/2017 9:28	Canada warbler	Wilsonia canadensis	Singing male present	Tall shrub Thicket	1	45.7529	-64.9543	348000	5068453
6/28/2017 10:00	olive-sided flycatcher	Contopus cooperi	Singing male present	Tall shrub Thicket	1	45.7533	-64.9503	348317	5068490
6/28/2017 12:49	American kestrel	Falco sparverius	No indication Breeding	Disturbed Area	1	45.8038	-64.8982	352498	5073998
6/29/2017 11:08	hairy woodpecker	Picoides villosus	Suitable habitat	Mature Hardwood	1	45.753	-64.958	347713	5068471



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#### Appendix E 2017 Breeding Bird Survey Protocols and Results

**Table E3 Incidental Bird Observations**

<b>Date and Time</b>	<b>Common Name</b>	<b>Latin Name</b>	<b>Breeding information</b>	<b>Habitat</b>	<b>Count</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Easting (NAD83 UTM Z20)</b>	<b>Northing (NAD83 UTM Z20)</b>
6/29/2017 11:29	olive-sided flycatcher	Contopus cooperi	Suitable habitat	Tall shrub Thicket	1	45.753	-64.9528	348120	5068463
6/29/2017 11:30	Canada warbler	Wilsonia canadensis	Singing male present	Tall shrub Thicket	1	45.753	-64.9528	348121	5068463
6/29/2017 11:37	Blackburnian warbler	Dendroica fusca	Singing male present	Mature Mixedwood	1	45.7534	-64.9527	348127	5068508

## **KENT HILLS 3: KENT HILLS WIND FARM EXPANSION PHASE 3**

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