

# Appendix B4

2012 Bird Breeding Surveys



- Legend**
- GE Turbine
  - Prime T-Line
  - Permit T-Line
  - Area of Disturbance
  - Natural Feature and ID
  - ABCA Watercourse
  - Property Boundary
  - Prime T-Line Buffer (180 m)
  - Permit T-Line Buffer (180 m)

Basemapping from Ontario, Ministry of Natural Resources  
 Orthophotography, 2010  
 Turbine Layout, May 15, 2012



0 25 50 100  
 Metres  
 12,500 17N, 14N0 83  
 UTM Zone 17N, NAD 83

This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, in whole or in part, without the prior written consent of AECOM. AECOM shall not be held responsible for any errors or omissions, or for any liability whatsoever, to any party that arises out of the use of this drawing without AECOM's written consent.

Geesten Woodland Breeding Bird Surveys  
**648\_GSH2485/GSH2548**  
 SCB-01  
 May 2012  
 Project 60156032

**AECOM**

Figure 1

# Woodland Breeding Bird Field Collection Form

AECOM

| General Information                         |                            |                                    |  |
|---|----------------------------|------------------------------------|--|
| Study Area: Jericho <u>Goshen</u> Bluewater | Parcel #: <u>GSH2548</u>   | Site ID: <u>648-GSH2548</u>        |  |
| Date: <u>June 7/12</u>                      | Start time: <u>0830</u>    | End Time: <u>1000</u>              |  |
| Weather Conditions:                         |                            | Field Crew: <u>S. Parnanen</u>     |  |
| Wind Direction: <u>W</u>                    | Wind Scale: <u>4</u>       | Field Notes By: <u>S. Parnanen</u> |  |
| Sky Condition: <u>1</u>                     | Cloud Cover (%): <u>30</u> |                                    |  |
| Temperature C: <u>15</u>                    |                            |                                    |  |

| Site Location   |
|---|
| <u>West of Morrison Line, 500 m N of Crediton Rd.</u> |

| Point Count Locations   |                          |                        |
|-------------------------|--------------------------|------------------------|
| Easting: <u>0462650</u> | Northing: <u>4775886</u> | Number: <u>1 (047)</u> |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |

| Habitat Description  |
|--|
| Height of Vegetation (m): <u>15-20m</u>  |
| Predominant Species: <u>Bitternut hickory</u>  |
| Description: <u>Hickory / maple mixed age woodlot w deep-sided creek running through. Sparse shrub layer from 1-4m; dense ground cover. Elm growing beside creek</u> |

| Photo Log   |                  |           |             |
|-------------|------------------|-----------|-------------|
| Picture #   | Description      | Picture # | Description |
| <u>4684</u> | <u>Stn 1 - N</u> |           |             |
| <u>4685</u> | <u>- N</u>       |           |             |
| <u>4686</u> | <u>- S</u>       |           |             |
| <u>4687</u> | <u>- E</u>       |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |

| Beaufort Wind Scale | 0: 0-2 km/hr - calm, smoke rises vertically            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |
|---------------------|--|--|
|                     | 1: 3-5 km/hr - light air movement                      | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |
|                     | 2: 6-11 km/hr - wind felt on face, leaves rustle       | 6: 39-49 km/hr - strong breeze - large branch moves            |
|                     | 3: 12-19 km/hr - leaves/small twigs in constant motion |  |

| Sky Condition Indicators | 0 Clear or few clouds         | 5 Drizzle |
|--------------------------|-------------------------------|-----------|
|                          | 1 Partly cloudy               | 7 Snow    |
|                          | 2 Cloudy (broken) or overcast | 8 Showers |
|                          | 4 Fog or Smoke                |           |







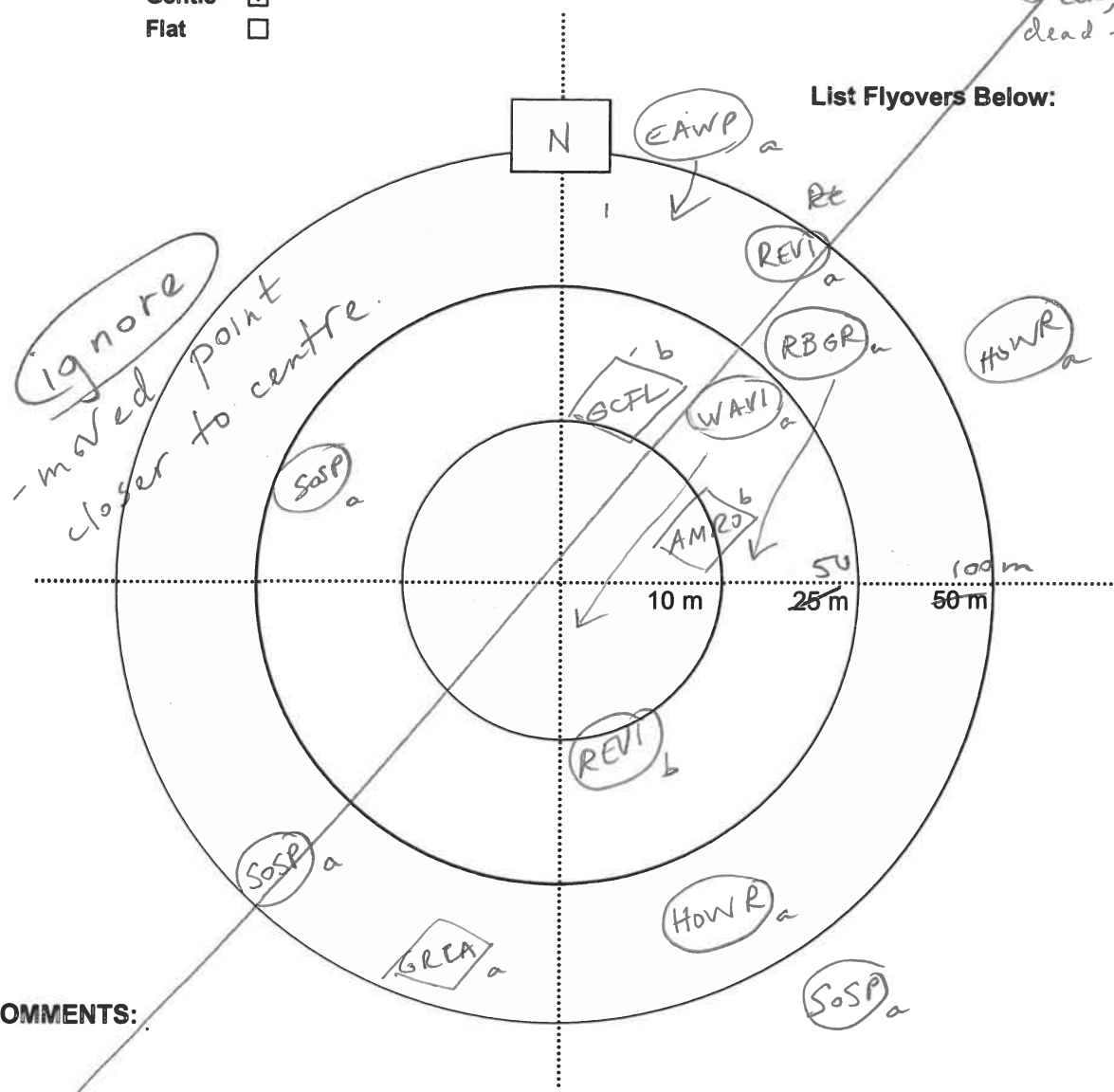
# Woodland Breeding Bird Station Mapping Card

Study Area: Bluewater Goshen Jericho Parcel ID: 6411 GSH2548  
 Date: June 7/12 Surveyor: S. Permann Site ID: GSH 2548  
 Time Started: 0913 Time Ended: 0923 Point Number: 1

Slope: Vertical   
 Steep  Direction slope faces (Aspect) (ex. NE): NE  
 Gentle   
 Flat

*at edge of creek, beside dead tree*

List Flyovers Below:



COMMENTS:

CEDW

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
| A     | I        | C, D, K   | I            |

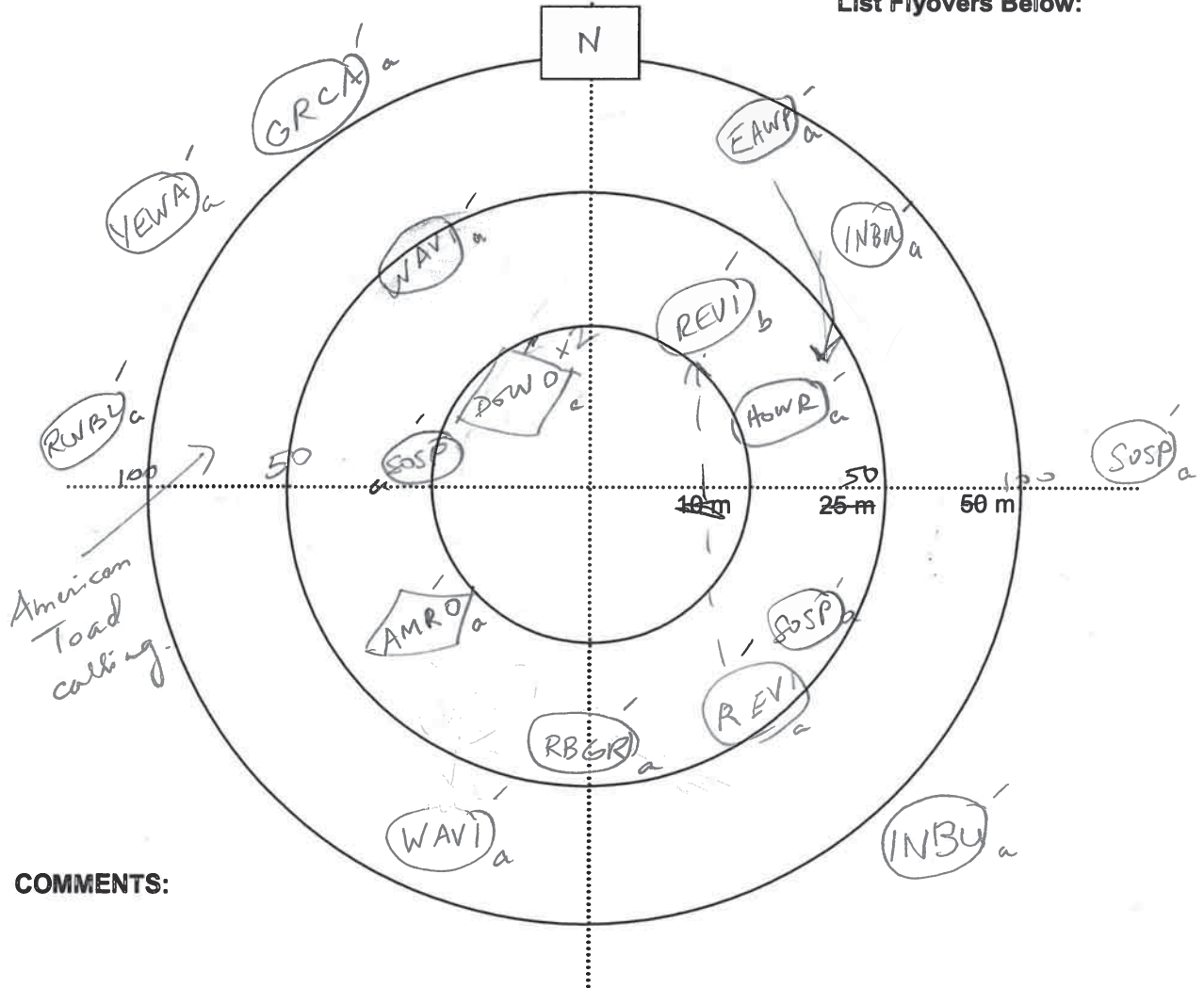


# Woodland Breeding Bird Station Mapping Card

**Study Area:** Bluewater Goshen Jericho Parcel ID: GSH 2548  
**Date:** June 7/12 Surveyor: S. Peranen Site ID: 648 - GSH 2548  
**Time Started:** 0939 Time Ended: 0949 Point Number: 1  
**Slope:** Vertical  Steep  Gentle  Flat   
 Direction slope faces (Aspect) (ex. NE): W

beside 3 small ironwood

List Flyovers Below:



COMMENTS:

CLASSIFY HABITAT (within 100 m):

BLJA

| CLASS | SUBCLASS | STRUCTURE  | MODIFICATION |
|-------|----------|------------|--------------|
| A     | I        | C, D, K, H | I            |

## Woodland Breeding Bird Field Collection Form

|   |                            |  |   |
|---|----------------------------|--|---|
| <b>AECOM</b>  |                            | Page 1 / <u>  </u>   |   |
| <b>General Information</b>  |                            |  |   |
| Study Area: Jericho   | Goshen                     | Bluewater  | Parcel #: <u>GSH 2435</u> / <del>2598</del> Site ID: <u>648</u> |
| Date: <u>June 21/12</u>   | Start time: <u>0819h</u>   | End Time: <u>0829h</u>   |   |
| <b>Weather Conditions:</b>  |                            | <b>Field Crew:</b>   |   |
| Wind Direction: <u>W</u>  | Wind Scale: <u>1</u>       | > S.A.M.   |   |
| Sky Condition: <u>0</u>   | Cloud Cover (%): <u>20</u> |  |   |
| Temperature C: <u>24</u>  |                            |  |   |
| <b>Field Notes By:</b>  |                            |  |   |
| <b>Site Location</b>  |                            |  |   |
| see R-1   |                            |  |   |
| <b>Point Count Locations</b>  |                            |  |   |
| Easting: _____  | Northing: _____            | Number: _____  |   |
| Easting: <u>see R-1</u>   | Northing: _____            | Number: _____  |   |
| Easting: _____  | Northing: _____            | Number: _____  |   |
| Easting: _____  | Northing: _____            | Number: _____  |   |
| Easting: _____  | Northing: _____            | Number: _____  |   |
| Easting: _____  | Northing: _____            | Number: _____  |   |
| <b>Habitat Description</b>  |                            |  |   |
| Height of Vegetation (m): _____   |                            |  |   |
| Predominant Species: _____  |                            |  |   |
| Description: <span style="float: right; font-size: 1.2em;">see R-1</span> |                            |  |   |
| <b>Photo Log</b>  |                            |  |   |
| Picture #   | Description                | Picture #  | Description   |
|   |                            |  |   |
|   |                            |  |   |
|   | see R-1                    |  |   |
|   |                            |  |   |
|   |                            |  |   |
|   |                            |  |   |
|   |                            |  |   |
|   |                            |  |   |
|   |                            |  |   |
| <b>Beaufort Wind Scale</b>  |                            | 0: 0-2 km/hr - calm, smoke rises vertically                    |   |
| 1: 3-5 km/hr - light air movement   |                            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |   |
| 2: 6-11 km/hr - wind felt on face, leaves rustle                          |                            | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |   |
| 3: 12-19 km/hr - leaves/small twigs in constant motion                    |                            | 6: 39-49 km/hr - strong breeze - large branch moves            |   |
| <b>Sky Condition Indicators</b>   |                            | 0 Clear or few clouds  |   |
| 1 Partly cloudy   |                            | 5 Drizzle  |   |
| 2 Cloudy (broken) or overcast   |                            | 7 Snow   |   |
| 4 Fog or Smoke  |                            | 8 Showers  |   |









# Woodland Breeding Bird Station Mapping Card

Study Area: Bluewater  
 Date: June 21/12  
 Time Started: 0819 h

Goshen

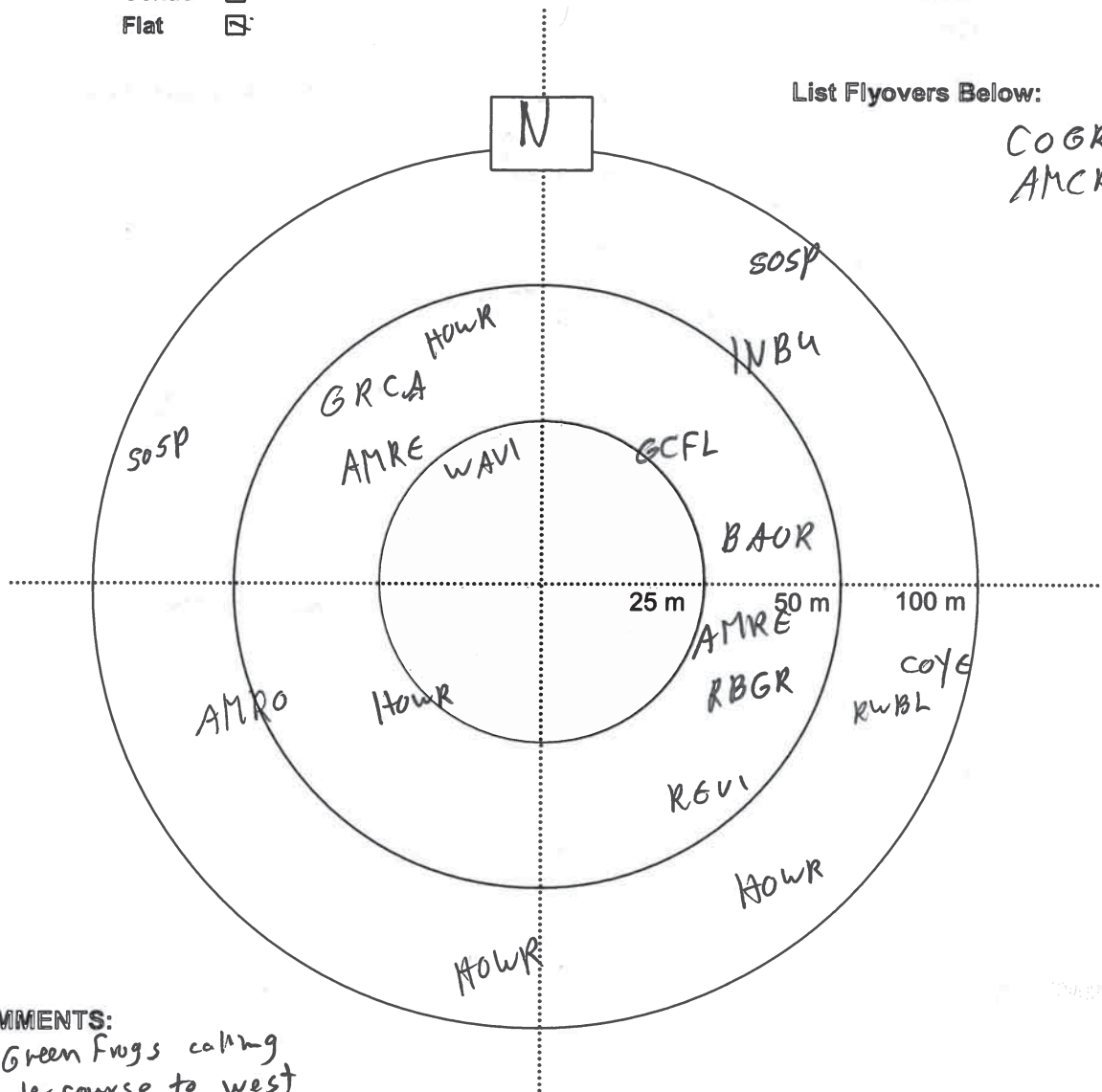
Jericho  
 Surveyor: S.A.M.  
 Time Ended: 0829 h

Parcel ID: GSA 2435/2548  
 Site ID: 649  
 Point Number: 1

Slope: Vertical   
 Steep  Direction slope faces (Aspect) (ex. NE): W  
 Gentle   
 Flat

462650  
 4995886

List Flyovers Below:  
 COGR  
 AMCR ""



COMMENTS:  
 Several Green Frogs calling  
 from water course to west

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
|       | see R-1  |           |              |









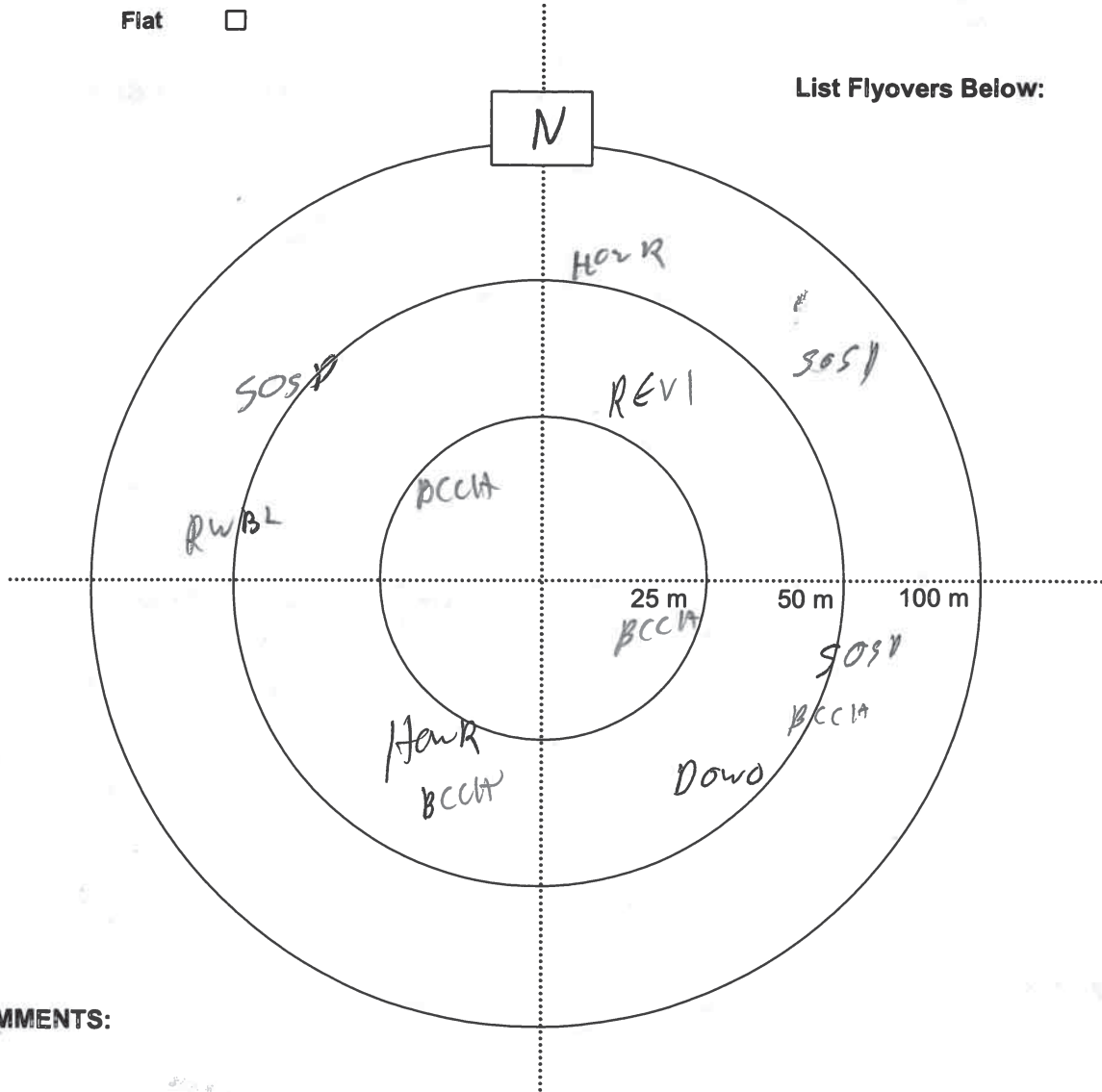




# Woodland Breeding Bird Station Mapping Card

**Study Area:** Bluewater Goshen Jericho  
**Date:** July 4/12 **Surveyor:** S.A.M. **Parcel ID:** 65H 2485/2548  
**Time Started:** 0926 **Time Ended:** 0936 **Site ID:** 648  
**Slope:**  Vertical  Steep  Gentle  Flat **Direction slope faces (Aspect) (ex. NE):** see R1 **Point Number:** 1

List Flyovers Below:



COMMENTS:

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
|       | See R-1  |           |              |



- Legend**
- GE Turbine
  - Prime TLine
  - Permit TLine
  - Area of Disturbance
  - Natural Feature and ID
  - ABCA Watercourse
  - Property Boundary
  - Prime TLine Buffer (180 m)
  - Permit TLine Buffer (180 m)

Basemapping from Ontario Ministry of Natural Resources  
 Orthophotography, 2010  
 Turbine Layout, May 15, 2012



UTM Zone 17N, UTM 83  
 12,500  
 0 25 50 100  
 Metres

This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties. AECOM shall not be liable for any errors or omissions in this drawing or for any use by the client or third parties. AECOM shall not be responsible and denies any liability whatsoever, to any party who modifies this drawing without AECOM's written consent.

Goshen Woodland Breeding Bird Surveys  
**662\_GSH2432**  
 SCB-02  
 May 2012  
 Project 60155032

**AECOM**

Figure 1

# Woodland Breeding Bird Field Collection Form

AECOM

Page 1 / \_\_

**General Information**

Study Area: Jericho Goshen Bluewater Parcel #: 2432 Site ID: 662  
 Date: 7 JUN/12 Start time: 0630 End Time: 0640  
 Weather Conditions: Wind Direction W Wind Scale 2 Field Crew: PSB  
 Sky Condition 1 Cloud Cover (%) 45 Field Notes By:  
 Temperature C 14°

**Site Location**

Evergreen Line SE of Exeter

**Point Count Locations**

|                        |                          |                    |
|------------------------|--------------------------|--------------------|
| Easting: <u>465248</u> | Northing: <u>4796475</u> | Number: <u>175</u> |
| Easting: _____         | Northing: _____          | Number: _____      |
| Easting: _____         | Northing: _____          | Number: _____      |
| Easting: _____         | Northing: _____          | Number: _____      |
| Easting: _____         | Northing: _____          | Number: _____      |
| Easting: _____         | Northing: _____          | Number: _____      |

**Habitat Description**

Height of Vegetation (m): 15-18 m  
 Predominant Species: Sugar Maple, Red Oak, W. Ash  
 Description: mature hardwood overlogged in part with heavy undergrowth in openings.

**Photo Log**

| Picture # | Description | Picture # | Description |
|-----------|-------------|-----------|-------------|
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |

**Beaufort Wind Scale**

|  |  |
|--|--|
| 0: 0-2 km/hr - calm, smoke rises vertically            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |
| 1: 3-5 km/hr - light air movement                      | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |
| 2: 6-11 km/hr - wind felt on face, leaves rustle       | 6: 39-49 km/hr - strong breeze - large branch moves            |
| 3: 12-19 km/hr - leaves/small twigs in constant motion |  |

**Sky Condition Indicators**

|                               |           |
|-------------------------------|-----------|
| 0 Clear or few clouds         | 5 Drizzle |
| 1 Partly cloudy               | 7 Snow    |
| 2 Cloudy (broken) or overcast | 8 Showers |
| 4 Fog or Smoke                |           |





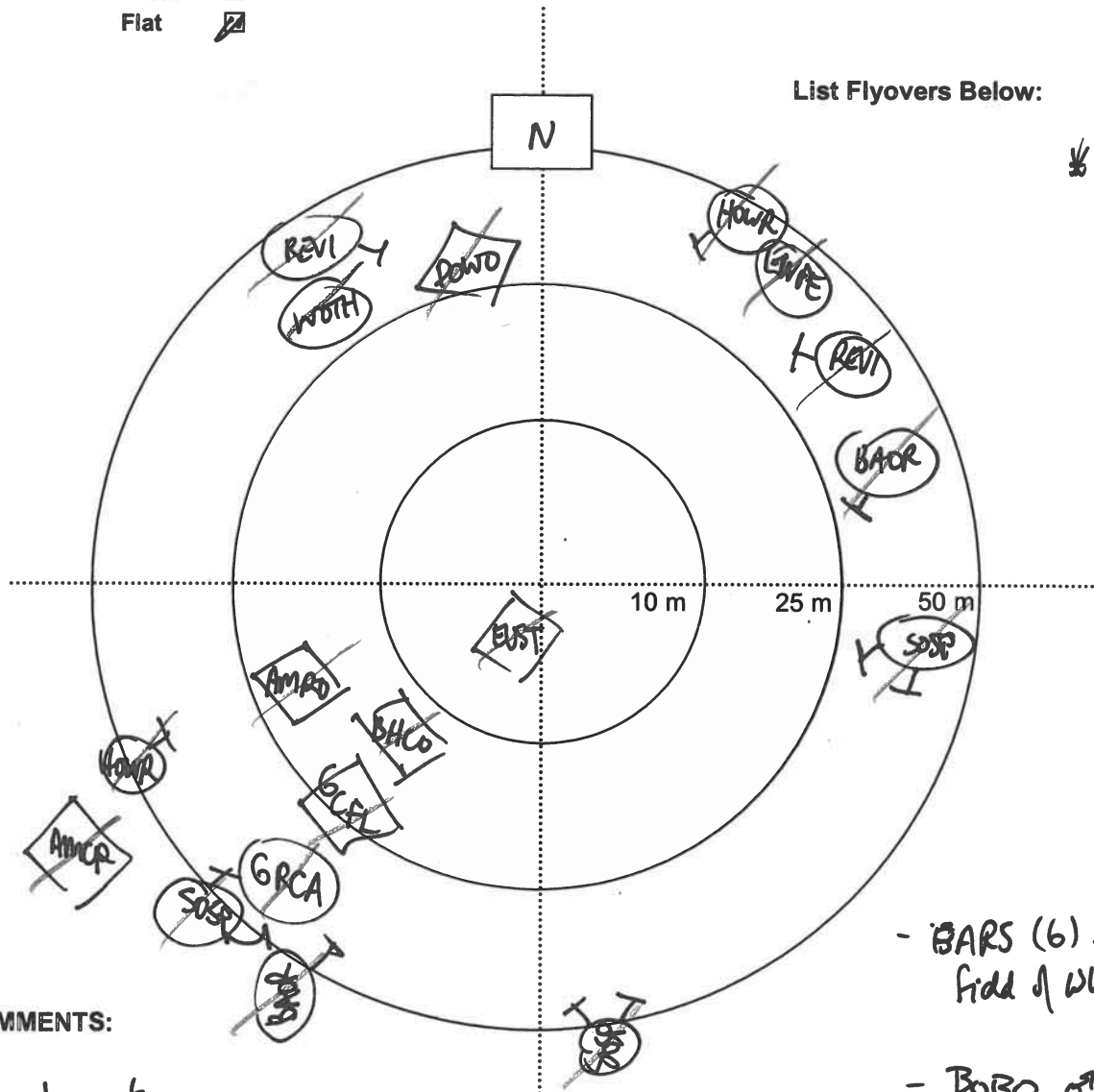
## Woodland Breeding Bird Station Mapping Card

Study Area: Bluewater Goshen Jericho Parcel ID: 2432  
 Date: 7 JUN 12 Surveyor: PSB Site ID: 662  
 Time Started: 0630 Time Ended: 0640 Point Number: 175

Slope: Vertical   
 Steep  Direction slope faces (Aspect) (ex. NE): \_\_\_\_\_  
 Gentle   
 Flat

List Flyovers Below:

\* forgot photos



COMMENTS:

- BARS (6) foraging over field of wheat in GSH 2435
- BOBO or heard to SW of plot in GSH 2436

CHSP (SM) post-count

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
| A     | I        | CDM       | 26           |

# Woodland Breeding Bird Field Collection Form

|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|--|--|--|--------------------|---------------------------------|---|--|-----------------------------------|---|--|---|--|--|
| <b>AECOM</b>   |  | Page 1 / 1   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>General Information</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Study Area:</b> Jericho <u>Goshen</u> Bluewater   | <b>Parcel #:</b> <u>65H 2432</u>                       | <b>Site ID:</b> <u>662</u>                                     |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Date:</b> <u>June 18/12</u>   | <b>Start time:</b> <u>0626h</u>                        | <b>End Time:</b> <u>0636h</u>                                  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Weather Conditions:</b>   |  | <b>Field Crew:</b>   |                    |                                 |   |  |                                   |   |  |   |  |  |
| Wind Direction <u>SW</u>   | Wind Scale <u>1</u>                                    | <u>&gt; S.A.M.</u>   |                    |                                 |   |  |                                   |   |  |   |  |  |
| Sky Condition <u>2</u>   | Cloud Cover (%) <u>100</u>                             |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| Temperature C <u>17</u>  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Site Location</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <u>see R-1</u>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Point Count Locations</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> _____                                 | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> _____                                 | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> <u>See R-1</u>                        | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> _____                                 | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> _____                                 | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Easting:</b> _____  | <b>Northing:</b> _____                                 | <b>Number:</b> _____   |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Habitat Description</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Height of Vegetation (m):</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Predominant Species:</b>  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <u>See R-1</u>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Description:</b>  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Photo Log</b>   |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <b>Picture #</b>   | <b>Description</b>                                     | <b>Picture #</b>   | <b>Description</b> |                                 |   |  |                                   |   |  |   |  |  |
| <u>106-924</u>   | <u>North</u>   |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <u>925</u>   | <u>West</u>  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <u>926</u>   | <u>South</u>   |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <u>927</u>   | <u>East</u>  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  |  |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <table style="width: 100%; border: none;"> <tr> <td rowspan="4" style="vertical-align: top;"><b>Beaufort Wind Scale</b></td> <td>0: 0-2 km/hr - calm, smoke rises vertically</td> <td>4: 20-30 km/hr - dust / loose papers blow, small branches move</td> </tr> <tr> <td>1: 3-5 km/hr - light air movement</td> <td>5: 31-38 km/hr - fresh breeze - moderate branch moves</td> </tr> <tr> <td>2: 6-11 km/hr - wind felt on face, leaves rustle</td> <td>6: 39-49 km/hr - strong breeze - large branch moves</td> </tr> <tr> <td>3: 12-19 km/hr - leaves/small twigs in constant motion</td> <td></td> </tr> </table> |  |  |                    | <b>Beaufort Wind Scale</b>      | 0: 0-2 km/hr - calm, smoke rises vertically | 4: 20-30 km/hr - dust / loose papers blow, small branches move | 1: 3-5 km/hr - light air movement | 5: 31-38 km/hr - fresh breeze - moderate branch moves | 2: 6-11 km/hr - wind felt on face, leaves rustle | 6: 39-49 km/hr - strong breeze - large branch moves | 3: 12-19 km/hr - leaves/small twigs in constant motion |  |
| <b>Beaufort Wind Scale</b>   | 0: 0-2 km/hr - calm, smoke rises vertically            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 1: 3-5 km/hr - light air movement                      | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 2: 6-11 km/hr - wind felt on face, leaves rustle       | 6: 39-49 km/hr - strong breeze - large branch moves            |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 3: 12-19 km/hr - leaves/small twigs in constant motion |  |                    |                                 |   |  |                                   |   |  |   |  |  |
| <table style="width: 100%; border: none;"> <tr> <td rowspan="4" style="vertical-align: top;"><b>Sky Condition Indicators</b></td> <td>0 Clear or few clouds</td> <td>5 Drizzle</td> </tr> <tr> <td>1 Partly cloudy</td> <td>7 Snow</td> </tr> <tr> <td>2 Cloudy (broken) or overcast</td> <td>8 Showers</td> </tr> <tr> <td>4 Fog or Smoke</td> <td></td> </tr> </table>   |  |  |                    | <b>Sky Condition Indicators</b> | 0 Clear or few clouds                       | 5 Drizzle  | 1 Partly cloudy                   | 7 Snow  | 2 Cloudy (broken) or overcast                    | 8 Showers   | 4 Fog or Smoke   |  |
| <b>Sky Condition Indicators</b>  | 0 Clear or few clouds                                  | 5 Drizzle  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 1 Partly cloudy  | 7 Snow   |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 2 Cloudy (broken) or overcast                          | 8 Showers  |                    |                                 |   |  |                                   |   |  |   |  |  |
|  | 4 Fog or Smoke   |  |                    |                                 |   |  |                                   |   |  |   |  |  |





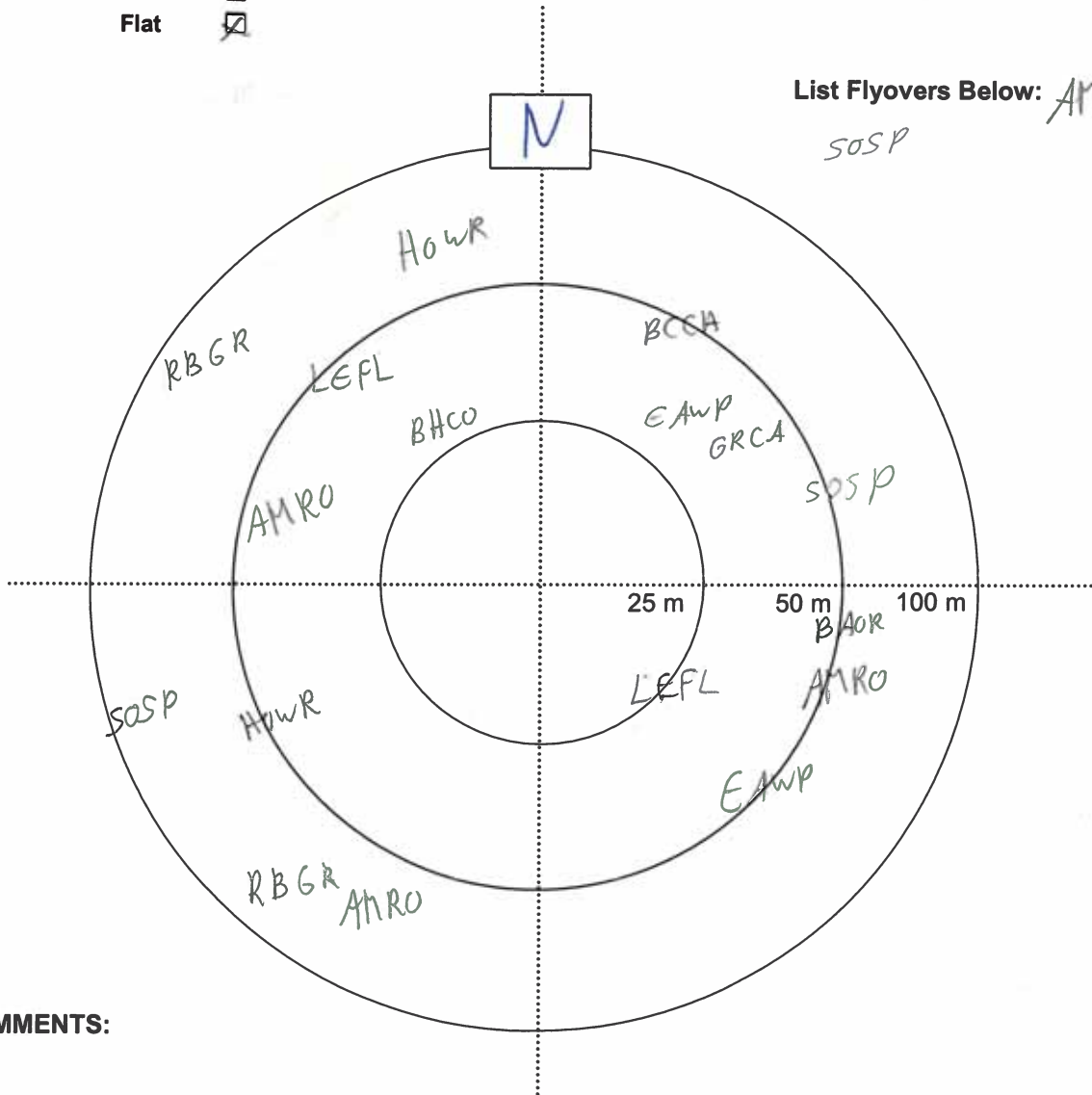
# Woodland Breeding Bird Station Mapping Card

Study Area: Bluewater Goshen Jericho Parcel ID: GSH2432  
 Date: June 8/12 Surveyor: S.A.M. Site ID: 662  
 Time Started: 0626h Time Ended: 0636h Point Number: ①

Slope: Vertical   
 Steep  Direction slope faces (Aspect) (ex. NE): \_\_\_\_\_  
 Gentle   
 Flat

465248  
4196475

List Flyovers Below: AMGO x<sup>2</sup>  
SOSP



COMMENTS:

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
| A     | 1        | CDM       | 2 6          |

↙



# Woodland Breeding Bird Field Collection Form

AECOM

Page 1/2

**General Information**

Study Area: Jericho Goshen Bluewater Parcel #: 2432 Site ID: 662-GSH2432  
 Date: JUN 30 2012 Start time: 09:14 End Time: 09:35

**Weather Conditions:**  
 Wind Direction E Wind Scale 2  
 Sky Condition 1 Cloud Cover (%) 5  
 Temperature C 25°C

Field Crew: S. LOHNES.  
 Field Notes By:

**Site Location**

Evergreen Line, SE of Exeter

**Point Count Locations**

| Easting: | _____         | Northing: | _____ | Number: | _____ |
|----------|---------------|-----------|-------|---------|-------|
| Easting: | _____         | Northing: | _____ | Number: | _____ |
| Easting: | <u>see R1</u> | Northing: | _____ | Number: | _____ |
| Easting: | _____         | Northing: | _____ | Number: | _____ |
| Easting: | _____         | Northing: | _____ | Number: | _____ |
| Easting: | _____         | Northing: | _____ | Number: | _____ |

**Habitat Description**

Height of Vegetation (m): 15-18 m.  
 Predominant Species:  
 Description: see R1

**Photo Log**

| Picture # | Description | Picture # | Description |
|-----------|-------------|-----------|-------------|
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |
|           |             |           |             |

**Beaufort Wind Scale**

|  |  |
|--|--|
| 0: 0-2 km/hr - calm, smoke rises vertically            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |
| 1: 3-5 km/hr - light air movement                      | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |
| 2: 6-11 km/hr - wind felt on face, leaves rustle       | 6: 39-49 km/hr - strong breeze - large branch moves            |
| 3: 12-19 km/hr - leaves/small twigs in constant motion |  |

**Sky Condition Indicators**

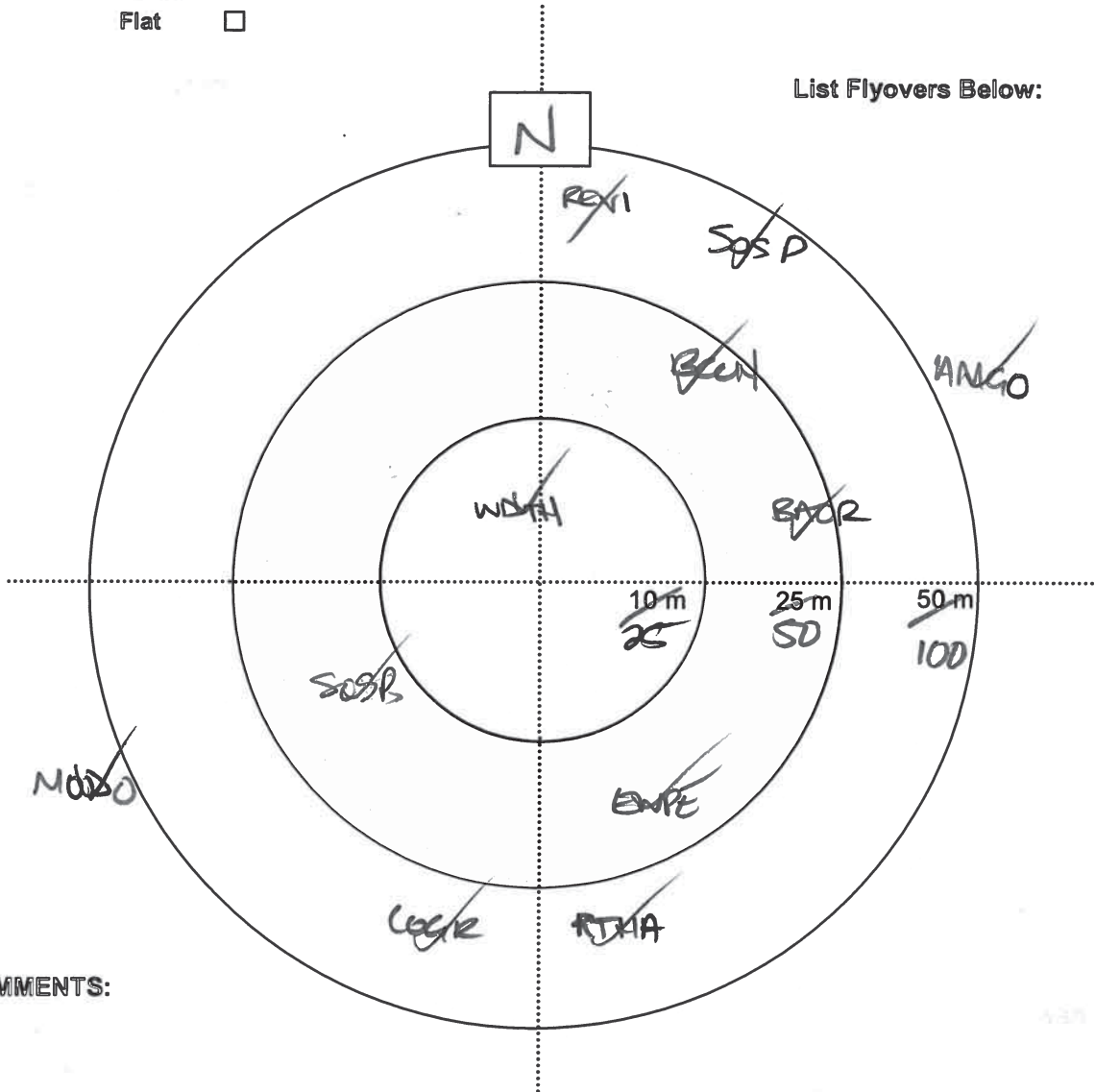
|                               |           |
|-------------------------------|-----------|
| 0 Clear or few clouds         | 5 Drizzle |
| 1 Partly cloudy               | 7 Snow    |
| 2 Cloudy (broken) or overcast | 8 Showers |
| 4 Fog or Smoke                |           |



**Woodland Breeding Bird Station Mapping Card**

Study Area: Bluewater Goshen Jericho Parcel ID: GS12432  
 Date: Jun 30/2018 Surveyor: S. LOHNES Site ID: 662-GS12432  
 Time Started: 09:14 Time Ended: 09:24 Point Number: 1/1  
 Slope: Vertical   
 Steep  Direction slope faces (Aspect) (ex. NE): \_\_\_\_\_  
 Gentle   
 Flat

List Flyovers Below:



COMMENTS:

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE | MODIFICATION |
|-------|----------|-----------|--------------|
| A     | 1        | CDM       | 26           |





# Species of Conservation Concern Habitat and Incidental Wildlife – Goshen



| ELC   | Species  | Habitat Description  | Habitat Present (Y/N: UTM; description of habitat if present) |
|---|--|--|---|
| CUM1, MAM, FOD6, FOD7, FOD9                         | June - August<br>Green Dragon ( <i>Arisaema dracontium</i> ) - <u>S3/S2 Bloom Time - May and June</u>                          | Species found in damp deciduous forest and along river streams. Particularly Maple forest and forest dominated by Red Ash and White Elm.                     | Y N UTM:  |
| TPO1, TPS1, TPW1, FOM1, FOM2, FOD1, FOD2, FOD3      | June-August<br>Hairy Bedstraw ( <i>Galium pilosum</i> ) - <u>S3 Bloom Time - June-August</u>                                   | Occurs in dry, sandy woods and thickets; occasionally in dry sandy fields  | Y N UTM:  |
| FE01, FES1, FET1, SWC, SWM, SWD, SWT, TPO, TPS, TPW | June to August<br>Hairy Valerian ( <i>Valeriana edulis</i> ) - <u>S1 Bloom Time - June to August</u>                           | Inhabits swampy river flats and meadows, wet prairies, and wooded, rocky riverbanks and fens.  | Y N UTM:  |
| FOD6, FOD7, SWM, SWD                                | Summer<br>Hairy Wood Mint ( <i>Blephilia hirsuta</i> ) - <u>S1 Bloom Time - Summer</u>   | Woodlands, often rocky, especially rivers. Rich woods, swamp forests, floodplains.   | Y N UTM:  |
| FOD6, FOD7, FOD8, FOD9                              | Early Spring - Early Summer<br>Harbinger-of-spring ( <i>Erigenia bulbosa</i> ) - <u>S3 Bloom Time - early to late April</u>    | Occurs in rich, moist deciduous woods, especially on floodplains.  | Y N UTM:  |
| SAS1, SAM1, SAF1                                    | Summer<br>Hill's Pond Weed ( <i>Potamogeton hillii</i> ) - <u>SC/S2 Bloom Time - summer</u>                                    | Aquatic plant found in highly alkaline waters of ditches, ponds, beaver ponds, and slow-moving cold waters.  | Y N UTM:  |
| FOM6, FOM7, FOM8                                    | June to August<br>Large Round-leaved Orchid ( <i>Platanthera macrophylla</i> ) - <u>S2 Bloom Time - June to August</u>         | Species inhabits moist mixed woods. Found in fairly mature, upland sugar maple-beech-eastern hemlock woodlands.  | Y N UTM:  |
| MAM2, MAM3, MAS2, MAS3, SWD                         | June - September<br>Lizard's Tail ( <i>Saururus cernuus</i> ) - <u>S3 Bloom Time - June - September</u>                        | Species inhabits shores and streambanks along shallow water. As well as swamps, floodplains, shallow water and mudflats at the borders of streams and ponds. | Y N UTM:  |
| FOD6, FOD7, FOD9                                    | March-May<br>Pawpaw ( <i>Asimina triloba</i> ) - <u>S3 Bloom Time - March-May</u>  | Occurs in moist deciduous woods and stream banks.  | Y N UTM:  |
| FOM6, FOD6, FOD7, FOD8, CUM1                        | Early Summer<br>Pillose Evening Primrose ( <i>Oenothera pilosella</i> ) - <u>S2 Bloom Time - Late Spring - Early Summer</u>    | Moist edges of woods and open, disturbed ground.   | Y N UTM:  |
| TPW1, FOM1, FOM2, FOD1, FOD2, FOD3                  | July-September<br>Prostrate Tick-trefoil ( <i>Desmodium rotundifolium</i> ) - <u>S2 Bloom Time - July-September</u>            | Dry, sandy or rocky woods  | Y N UTM:  |
| FOD7, SWD   | June<br>Pumpkin Ash ( <i>Fraxinus profunda</i> ) - <u>S2? Bloom Time - March - June</u>  | Swamps and floodplains   | Y N UTM:  |
| CUW1, ALO, FET1, SWC                                | Mid May to mid June<br>Ram's-head Lady's-slipper ( <i>Cypripedium arietinum</i> ) - <u>S3 Bloom Time - mid May to mid June</u> | Found in cedar woodlands, limestone plains and wooded fens, moist coniferous swamps, dry-sandy woods, and limestone barren.                                  | Y N UTM:  |
| FOD1, FOD2, FOD3, FOD4, FOD5, FOC1, FOM1, FOM5      | September<br>Rattlesnake Hawkweed ( <i>Hieracium venosum</i> ) - <u>S2 Bloom Time - April - September</u>                      | Species inhabits open, dry sandy woods. Jack pine, oak, and aspen woodlands.   | Y N UTM:  |
| FOD6, FOD7, FOD9                                    | May - June<br>Round-leaved Groundsel ( <i>Packera obovata</i> ) - <u>S3 Bloom Time - May - June</u>                            | Found in moist woods   | Y N UTM:  |
| CUM1, CUT1, CUS1                                    | Summer<br>Round-leaved hawthorn ( <i>Crataegus lumarie</i> ) - <u>S3?</u>  | Species occurs in old fields, poorly managed pastures, fencelines and roadsides  | Y N UTM:  |
| FOD6, FOD7, FOD8, FOD8, SWT2, SWT3                  | May to October<br>Scarlet Beebalm ( <i>Monarda didyma</i> ) - <u>S3 Bloom Time - May to October</u>                            | Found in moist, rich woods, thicket swamps, banks and floodplains.   | Y N UTM:  |
| ALO, ALS, ALT, TPO, TPS, TPW                        | Summer<br>Slender Blazing Star ( <i>Liatris cylindracea</i> ) - <u>S3</u>  | Species occurs in limestone and dolostone pavement, prairies, open woods; always and moist sandy meadows.  | Y N UTM:  |
| SBO, SBS, SBT, TPO1, TPS1, TPW1, FOD1, FOD2         | Summer<br>Slender Knotweed ( <i>Polygonum tenue</i> ) - <u>S2</u>  | Found in dry, sandy, open areas in deciduous (often oak woods), prairie meadows; at edges of sand pits   | Y N UTM:  |
| SDT1, FOD5, FOD9                                    | Summer<br>Slim-flowered Muhly ( <i>Muhlenbergia tenuiflora</i> ) - <u>S2</u>   | Found in rich deciduous forest, often on rocky or sandy soils, wooded dunes, hillsides, and riverbanks whether in oak or beech-maple woods                   | Y N UTM:  |
| BLO1, BLS1, BLT1, TPO2, TPS2, TPW2, MAM2, FOD7      | Mid fall<br>Stiff Gentian ( <i>Gentiana quinquefolia</i> ) - <u>S2 Bloom Time - late summer to mid fall</u>                    | Found in moist soils of streambanks, edges of woods, wet prairies, marshy meadows, bluffs and wooded hillsides.  | Y N UTM:  |
| TPS1, TPW1, CUW1, RBO, SBO                          | Mid-March to mid-June<br>Sundial Lupine ( <i>Lupinus perennis</i> ) - <u>S3 Bloom Time - mid-March to mid-June</u>             | Inhabits dry, sandy oak savannahs, prairies, open barrens or clearings in woodlands of oak, jack pine, and/or aspen.   | Y N UTM:  |

# Species of Conservation Concern Habitat and Incidental Wildlife – Goshen



| ELC  | Species  | Habitat Description   | Habitat Present (Y/N): UTM: description of habitat if present  |
|--|--|---|--|
| TPO1, TPS1, TPW1, CUM1                     | Tall Blazing Star ( <i>Liatris aspera</i> )-S3/SC  | Occurs in open, sandy woods, dry roadsides and sandy prairies   | Y N UTM:   |
| FE0, FES, FET, MAM2, MAM3                  | Tuberous Indian Plantain ( <i>Arraglossum plantagineum</i> ) - S3<br>Bloom Time -mid-March to mid-June | Occurs mainly in flat, sandy areas of the Bruce Peninsula. Fens, wet meadows, and calcareous river flats.   | Y N UTM:   |
| FOC1, FOC2, FOC3, FOC4                     | Woodland Pinedrops ( <i>Penospora andromedae</i> ) - S2<br>Bloom Time - summer                         | Found in conifer woods, under pines, but also hemlock, spruce, fir, and white cedar. In dry or rocky soil, often with common juniper and sometimes aspen or birch.  | Y N UTM:   |
| CUM1, CUT1, CUW1, RBO1, SBO1               | Yellow Ladies'-tresses ( <i>Spiranthes ochroleuca</i> ) - S2<br>Bloom Time - August to November        | Dry, open sites, usually on acidic sandy soil, dry to mesic open woodland, thickets, meadows, barrens, ledges, outcrops, banks and roadsides, old fields.   | Y N UTM:   |
| <b>BIRDS</b>                               |  |   |  |
| -  | Bald Eagle ( <i>Haliaeetus leucocephalus</i> ) - SC  | Assessed as SWH. Record species if found.   | not required.  |
| CUW, SDO, RBO, TPS                         | Common Nighthawk ( <i>Chordeiles minor</i> ) - SC  | Hunts insects over a wide variety of habitats, in particular open or semi-open areas. Nests on ground in a wide range of open, sparse or vegetation-free habitats.  | Y N UTM:   |
| FOD, FOM                                   | Louisiana Waterthrush ( <i>Seiurus motacilla</i> ) - SC  | Inhabits mature forests along steeply sloped ravines adjacent to running water. Trees, bushes, exposed roots, cliffs, banks and mossy logs are favoured nesting spots. Riparian woodlands are preferred stopover sites during migration   | Y N UTM:   |
| FOD, CUW, CUT                              | Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> ) - SC                                       | Species inhabits open woodland/ edges (oak savannahs and riparian forest), open, deciduous forest with little understory; fields or pasture lands with scattered large trees; wooded swamps; orchards, small woodlots or forest edges; groves of dead or dying trees; requires cavity trees with at least 40 cm dbh; requires about 4 ha for a territory. | Y N UTM: 47260Z 47 98349<br>Pair in suitable breeding habitat; many large cavity trees present, showing agitated behavior. |
| -  | Short Eared Owl ( <i>Aelo flammeus</i> ) - SC  | Assessed as SWH. Record species if found.   | not required.  |
| CUT1                                       | Yellow-breasted Chat ( <i>Icteria virens</i> ) - SC  | Inhabits thickets, tall tangles of shrubbery beside streams, ponds; overgrown bushy clearings with deciduous thickets; nests above ground in bush, vines  | Y N UTM:   |
| <b>REPTILES</b>                            |  |   |  |
| -  | Eastern Ribbonsnake ( <i>Thamnophis sauritus</i> ) - SC  | Assessed as SWH. Record species if found.   | not required.  |
| -  | Milksnake ( <i>Lampropeltis triangulum</i> ) -SC   | Assessed as SWH. Record species if found.   | not required.  |
| -  | Snapping Turtle ( <i>Chelydra serpentina</i> ) - SC  | Assessed as SWH. Record species if found.   | not required.  |
| <b>INSECTS</b>                             |  |   |  |
| OAO, SA, SWM, SWD                          | Azure Bluet ( <i>Enallagma aspersum</i> ) -S3  | Species inhabits fishless ponds, lakes and boggy swamps   | Y N UTM:   |
| TPS, TPW                                   | Sleepy Duskywing ( <i>Erynnis brize</i> ) - S1   | Occurs in oak/oak-pine scrub, chaparral, barrens, well-drained sandy or shaly soils. Species regularly seen at flowers in oak woods, on the ground, and at mud puddles  | Y N UTM:   |
| CUM1, CUT1, CUW1                           | Monarch Butterfly ( <i>Danaus plexippus</i> ) - SC   | Their larvae only feed on milkweeds ( <i>Asclepius</i> spp.). Habitat includes abandoned farmland, along roadsides, open spaces where these plants grow   | Y N UTM:   |
| TPS, CUW                                   | Mottled Duskywing ( <i>Erynnis martialis</i> ) -S2   | Usually seen nectaring or on wet sandy roads. Larvae feeds on New Jersey Tea and adults only likely near where this plant is present  | Y N UTM:   |
| SWT, SWD, SWM, FOM, FOD4-3, TPW, TPS, CUM1 | Tawny Emperor ( <i>Asterocampa clyton</i> ) - S3   | Species inhabits densely wooded riparian areas, dry woods, open woods, fencerows and parks. Usually occurs near Hackberry, the larval foodplant   | Y N UTM:   |
| FOD5                                       | West Virginia White ( <i>Pieris virginianensis</i> ) - SC  | This species is restricted to rich, moist, deciduous woods, where its foodplant Toothwort occur   | Y N UTM:   |





- Legend**
- GE Turbine
  - Prime T-Line
  - Permit T-Line
  - ▭ Area of Disturbance
  - ▭ Natural Feature and ID
  - ▭ ABCA Watercourse
  - ▭ Property Boundary
  - ▭ Prime T-Line Buffer (180 m)
  - ▭ Permit T-Line Buffer (180 m)

*Woodland*

Benmapping from Ontario Ministry of Natural Resources  
 01/13/2012 10:10 AM  
 Turbine Layout May 15, 2012



UTM Zone 17N, NAD 83  
 13 900

This drawing has been prepared for the use of AECOM's client  
 and may be used, reproduced or relied upon by third parties  
 without the written consent of AECOM. AECOM accepts  
 no liability for any loss or damage, including consequential  
 loss of profit, arising out of the use of the information  
 contained herein, and disclaims any liability whatsoever to any party  
 relying on this drawing without AECOM's express written consent.

Goshen Woodland Breeding Bird Surveys  
**720\_GSH2439/GSH3062**  
 SCB--03  
 May 2012  
 Project 60155032

**AECOM**

Figure 1

Woodland Breeding Bird Field Collection Form

AECOM

Page 11\_1

General Information

Study Area: Jericho Goshen Bluewater Parcel #: GSH 3062 Site ID: 720\_GSH3062  
 Date: May 30/12 Start time: 0821 End Time: 0915

Weather Conditions: Wind Direction - Wind Scale 0 Field Crew: S. Parnanen  
 Sky Condition 0 Cloud Cover (%) 0 Field Notes By: S. Parnanen  
 Temperature C 18

Site Location

South west corner of Kirkton Rd. and Plugtown Line

Point Count Locations

|                         |                          |                        |
|-------------------------|--------------------------|------------------------|
| Easting: <u>0472602</u> | Northing: <u>4798349</u> | Number: <u>1 (016)</u> |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |
| Easting: _____          | Northing: _____          | Number: _____          |

Habitat Description

Height of Vegetation (m): 20 - 23  
 Predominant Species: Sugar maple  
 Description: Very mixed deciduous woodlot with many different sp. (beech, elm, ash)

Photo Log

| Picture #   | Description      | Picture # | Description |
|-------------|------------------|-----------|-------------|
| <u>4568</u> | <u>Stn 1 - W</u> |           |             |
| <u>4569</u> | <u>Stn 1 - S</u> |           |             |
| <u>4570</u> | <u>Stn 1 - E</u> |           |             |
| <u>4571</u> | <u>Stn 1 - N</u> |           |             |
| <u>4572</u> | <u>" "</u>       |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |
|             |                  |           |             |

|                     |  |  |
|---------------------|--|--|
| Beaufort Wind Scale | 0: 0-2 km/hr - calm, smoke rises vertically            | 4: 20-30 km/hr - dust / loose papers blow, small branches move |
|                     | 1: 3-5 km/hr - light air movement                      | 5: 31-38 km/hr - fresh breeze - moderate branch moves          |
|                     | 2: 6-11 km/hr - wind felt on face, leaves rustle       | 6: 39-49 km/hr - strong breeze - large branch moves            |
|                     | 3: 12-19 km/hr - leaves/small twigs in constant motion |  |

|                          |                               |           |
|--------------------------|-------------------------------|-----------|
| Sky Condition Indicators | 0 Clear or few clouds         | 5 Drizzle |
|                          | 1 Partly cloudy               | 7 Snow    |
|                          | 2 Cloudy (broken) or overcast | 8 Showers |
|                          | 4 Fog or Smoke                |           |



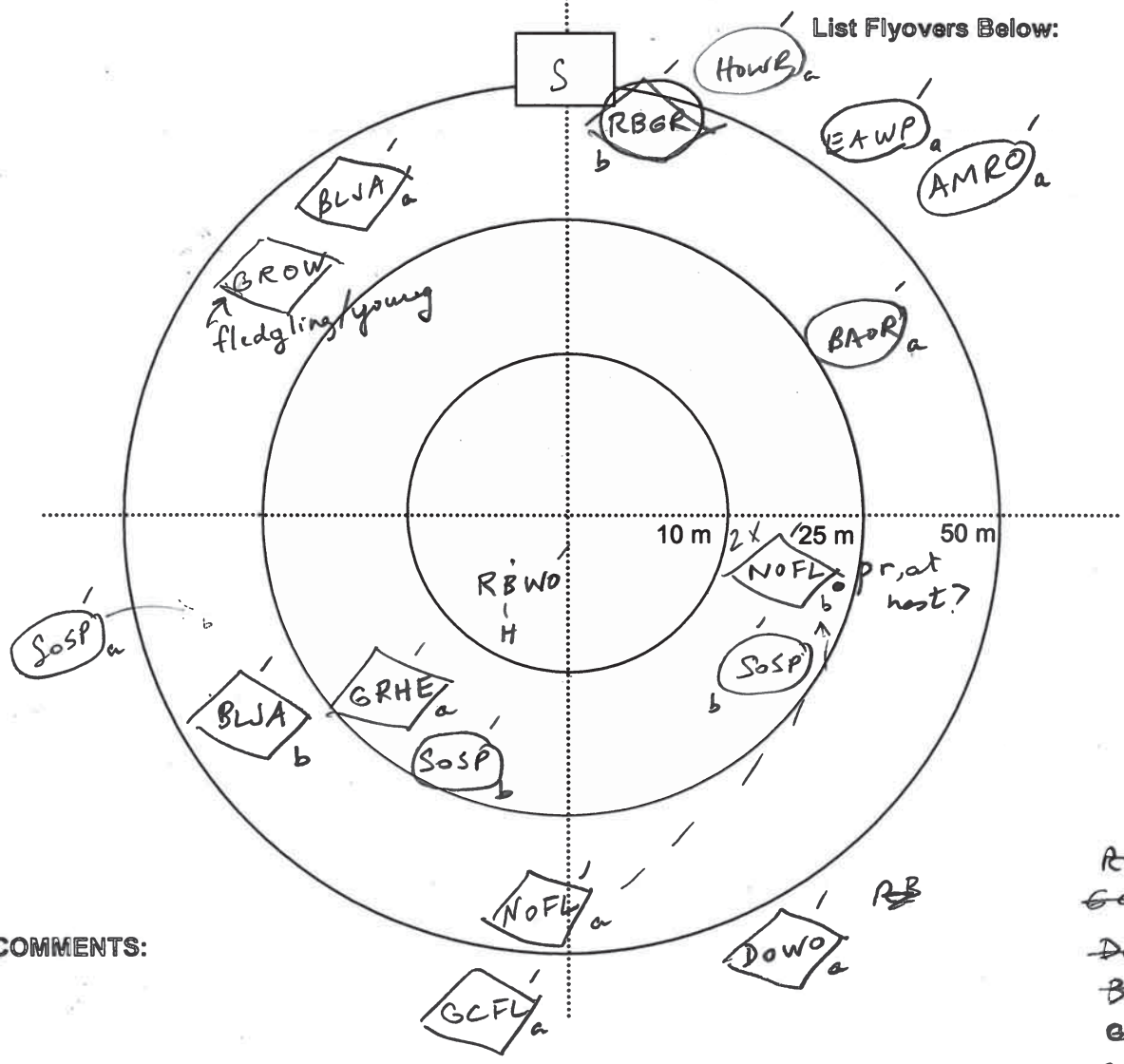




# Woodland Breeding Bird Station Mapping Card

Study Area: Bluewater Goshen Jericho Parcel ID: GS43002  
 Date: May 30/12 Surveyor: S. Parnanen Site ID: 720-GSH3062  
 Time Started: 0837 Time Ended: 0847 Point Number: 1

Slope: Vertical   
 Steep  Direction slope faces (ex. NE): W  
 Gentle   
 Flat



List Flyovers Below:

COMMENTS:

Before/after  
 RBGR SOSP  
 GCFY  
 DOWO  
 BLVA  
 GRCA - H  
 EAWP  
 NOFL

CLASSIFY HABITAT (within 100 m):

| CLASS | SUBCLASS | STRUCTURE  | MODIFICATION |
|-------|----------|------------|--------------|
| A     | I        | C, E, H, K | 3            |